SCS ENGINEERS







Vista Landfill
Semi-Annual
Water Quality Monitoring
Report
First Semi-Annual Monitoring 2016

Prepared for:

Vista Landfill, Inc.
242 West Keene Road
Apopka, Florida 32703

Prepared by:

SCS ENGINEERS
4041 Park Oaks Boulevard, Suite 100
Tampa, Florida 33610
(813) 621-0080

August 17, 2016
File No. 09207039.09

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KENNETH GUILBEAULT LICENSE No. 2907 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

Kenneth E. Guilbeault, P.G.
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August 17, 2016
File No. 09207039.09

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 0165969-027-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.

8/12/2016
(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

Table of Contents

CONTENTS (Continued)

List of Figures

Figure No. **Page**

List of Tables

Table No. **Page**

Appendices

1 INTRODUCTION

SCS Engineers (SCS) prepared this semi-annual water quality monitoring report for the Vista Landfill (VLF) on behalf of Vista Landfill, Inc. (VLI). The VLF 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 1-1). The VLF 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.

This report was prepared in accordance with Florida Department of Environmental Protection (FDEP) Permit/certification No. 0165969-027-SO-MM, Specific Condition Section 2.D, Monitoring Plan Implementation Schedule (MPIS), and Chapter 62-701.510(9)(a) Florida Administrative Code (FAC). Locations of monitoring sites are shown on Figure 1-2. The first semi-annual 2016 sampling data were obtained June 15, 2016. This report is being submitted within 60 days of receipt of the laboratory results. 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.

Water quality sampling and physical readings and measurements were performed by technical staff of Pro-Tech Environmental (Pro-Tech), Atlanta, Georgia. Water quality analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica Denver), Denver, Colorado. Field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01), the VLF MPIS, the VLF site permit, and the Pro-Tech sample team quality manual. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-001/01, the VLF MPIS, and the site permits. TestAmerica Denver is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).

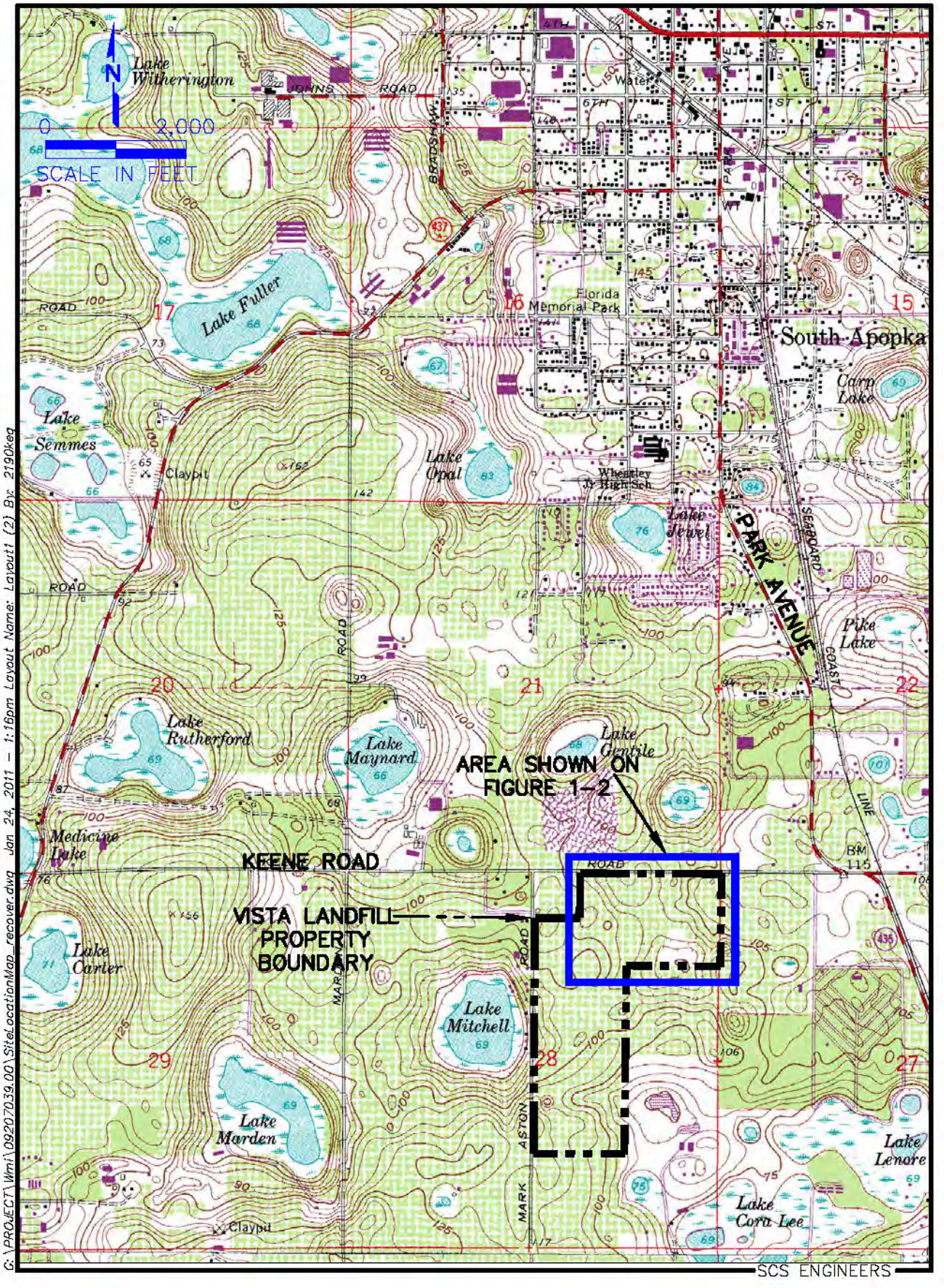


Figure 1-1. Site Location Map, Vista Landfill, Apopka, Florida.

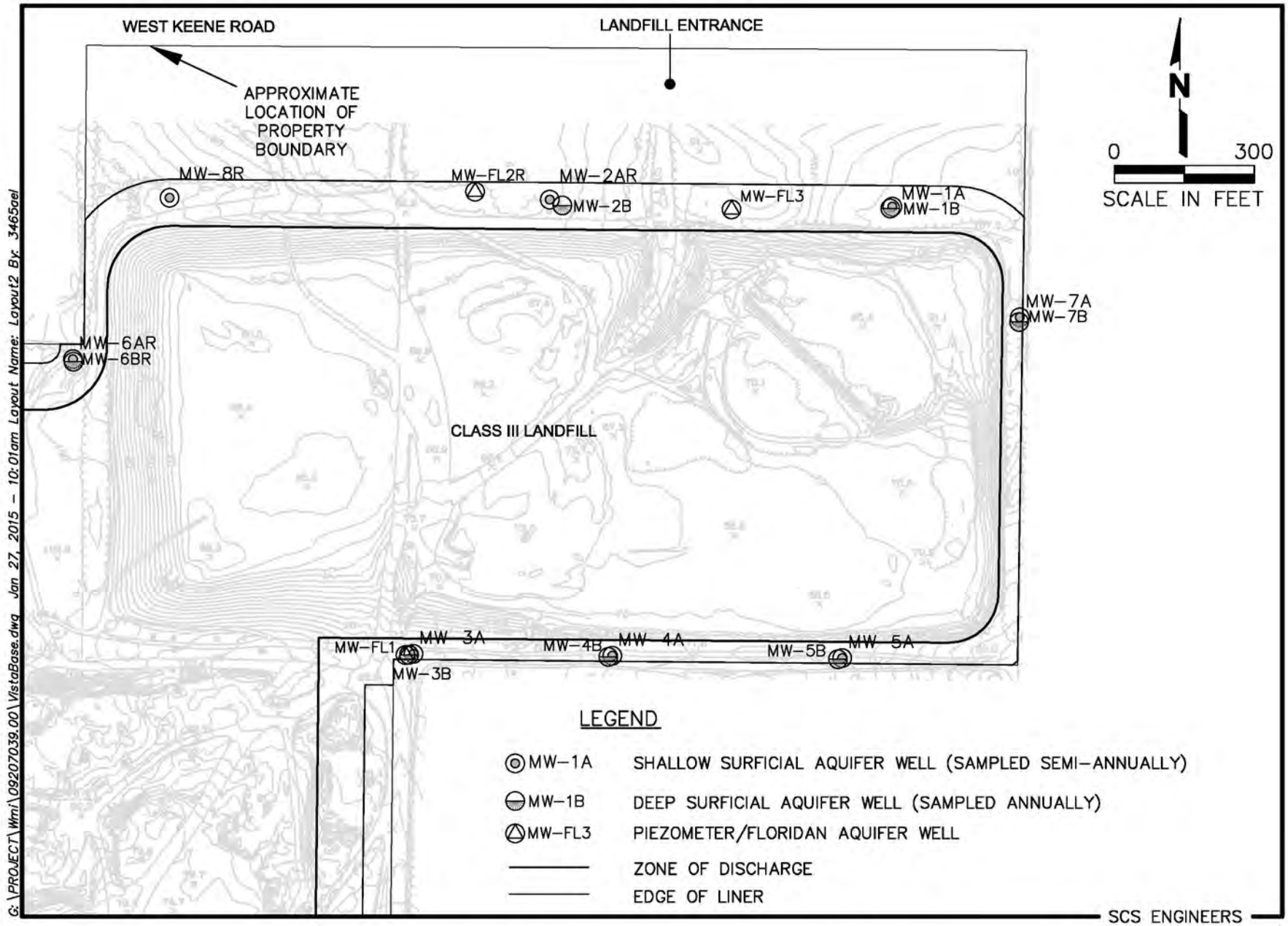


Figure 1-2. Site Map, Vista Landfill, Apopka, Florida.

2 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

Figure 1-1 shows the topography of the VLF 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 SCS' evaluation of VLF hydrogeologic data, the groundwater at VLF 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 VLF.

The Floridan aquifer underlies the surficial aquifer at the VLF 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 VLF (Figure 1-1).

SEMI-ANNUAL GROUNDWATER FLOW ASSESSMENT

The groundwater flow assessment of the shallow and lower surficial aquifer was performed using the groundwater elevation data obtained on June 15, 2016. This groundwater flow assessment included collecting and compiling groundwater depth measurements, calculating groundwater elevations, and constructing site figures depicting groundwater contours and the estimated groundwater flow direction. Table 2-1 lists monitoring well numbers, measured depths to water, and calculated groundwater elevations. Water level maps generated for the shallow surficial aquifer and lower surficial aquifer are presented in Figures 2-1 and 2-2. These maps are generated using Surfer® Version 10, groundwater contouring computer program, with the interpretation verified by an SCS hydrogeologist.

Shallow Surficial Aquifer

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 June 2016 sampling event and is provided on Figure 2-1.

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

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

Table 2-1. Groundwater Elevation Measurements,
Vista Landfill, Apopka, Florida.

Well No.	TOC Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	June 15, 2016 Groundwater Elevation (Feet NGVD)
MW-1A	109.47	45.59	63.88
MW-1B	109.53	55.84	53.69
MW-2AR	87.22	35.40	51.82
MW-2B	88.46	38.26	50.20
MW-3A	92.87	42.17	50.70
MW-3B	93.06	42.34	50.72
MW-4A	82.04	31.60	50.44
MW-4B	83.18	32.81	50.37
MW-5A	81.86	30.17	51.69
MW-5B	81.27	31.50	49.77
MW-6AR	104.11	53.03	51.08
MW-6BR	103.99	52.96	51.03
MW-7A	109.26	44.18	65.08
MW-7B	109.13	56.97	52.16
MW-8R	99.60	46.71	52.89
MW-FL1	93.16	42.43	50.73
MW-FL2R	86.76	42.43	44.33
MW-FL3	97.49	47.36	50.13

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

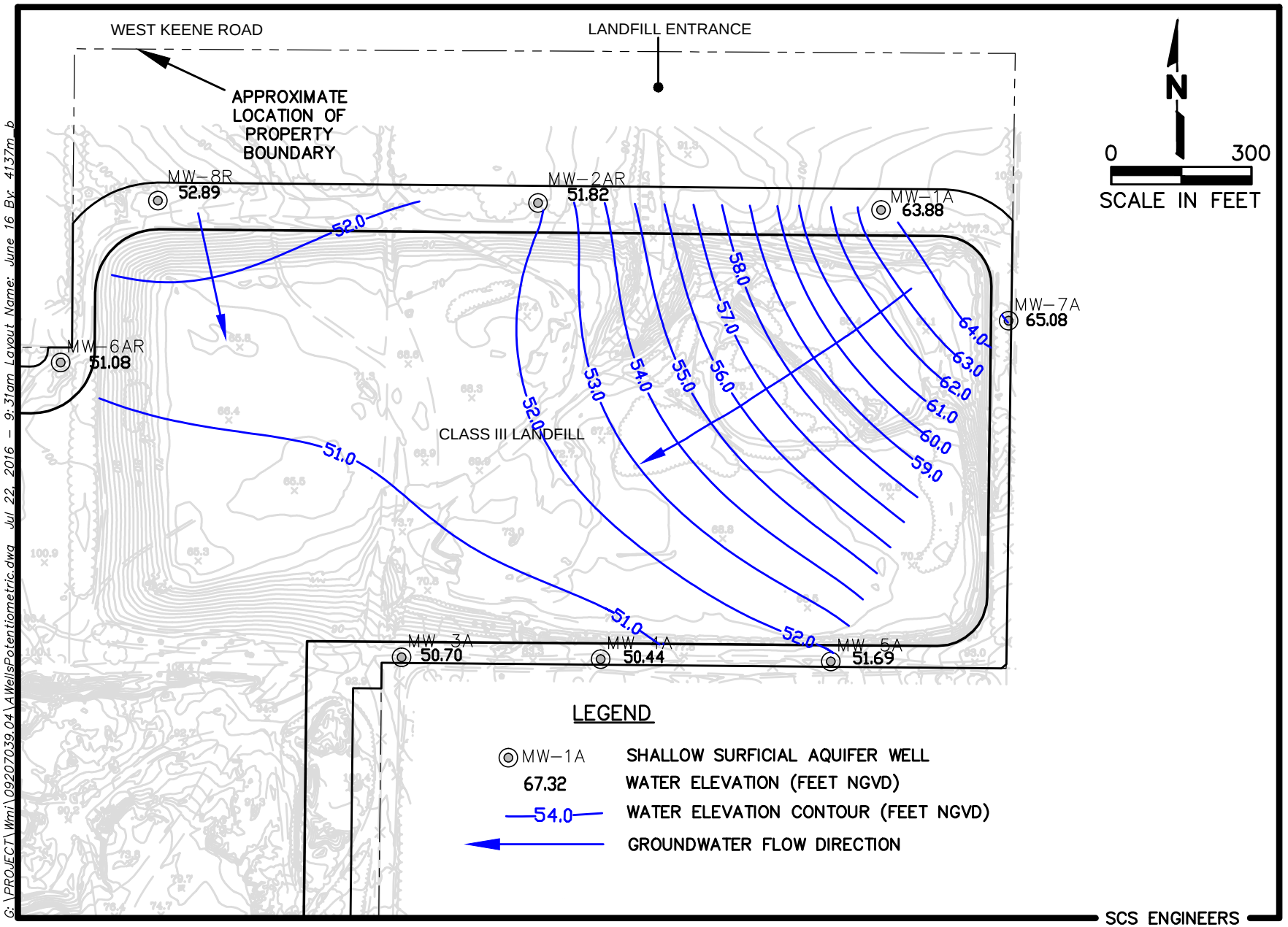


Figure 2–1. June 2016 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

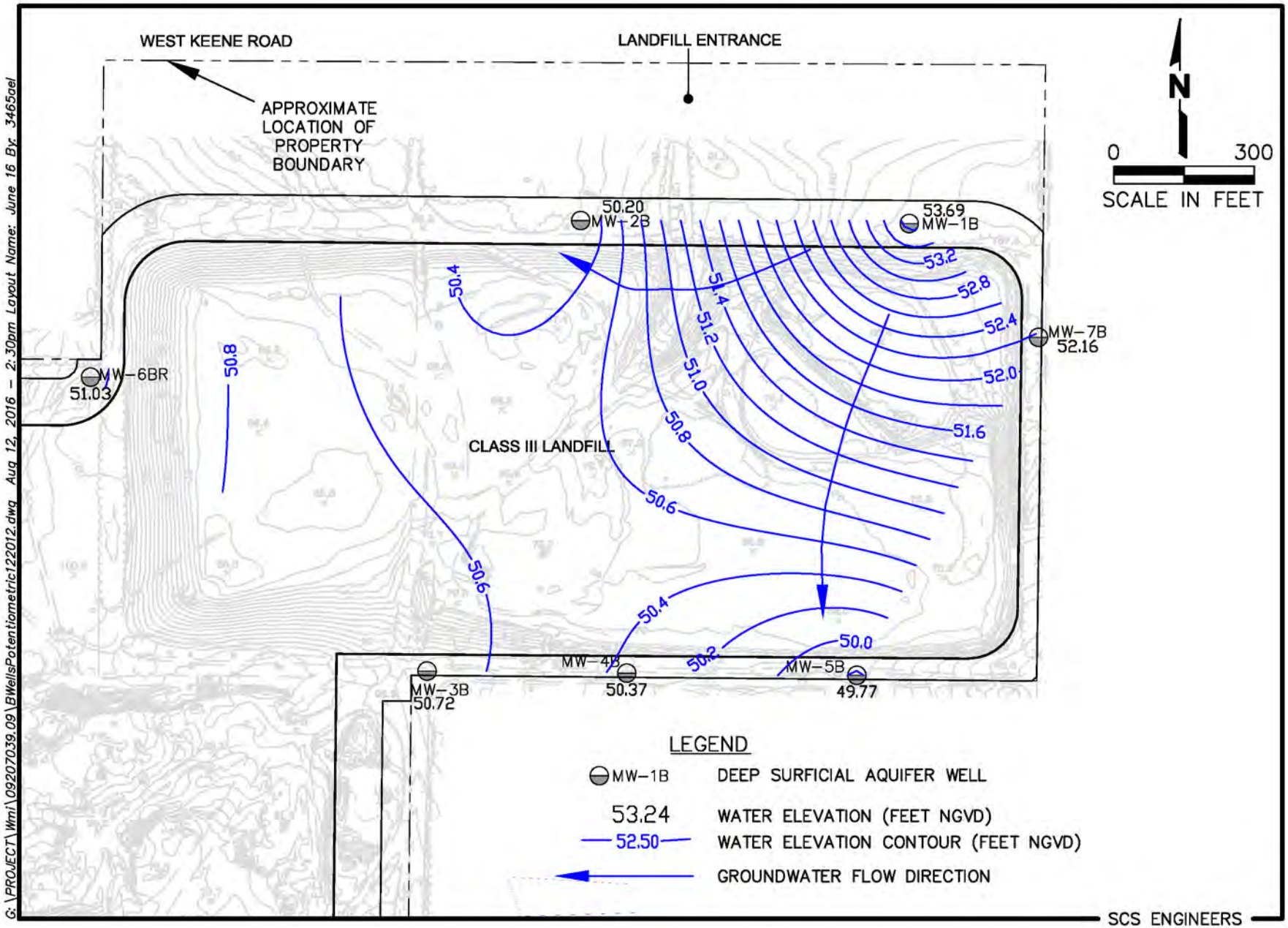


Figure 2–2. June 2016 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

primarily to the southwest. A portion of the groundwater enters from the northwest section of the site and flows south. 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 lateral inflow to the shallow surficial aquifer from outside the VLF. The flow direction is consistent with previous flow assessments at the Vista Landfill.

Intermediate Surficial Aquifer

A potentiometric map of the intermediate surficial aquifer was prepared from intermediate surficial well data for the June 2016 sampling event (Figure 2-2). Groundwater flow within the intermediate surficial aquifer beneath the VLF apparently consists of multiple flow regimes, as indicated by the groundwater flow direction arrows on Figure 2-2. 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 VLF. These flow directions are consistent with previous flow assessments at the Vista Landfill.

Floridan Aquifer

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 VLF is towards the northeast. This is confirmed by the water levels observed at the VLF at Floridan aquifer groundwater monitoring wells MW-FL1 and MW-FL3 (see Table 2-1).

3 LANDFILL MONITORING PROGRAM

PERMIT/WATER QUALITY MPIS MODIFICATIONS

On behalf of the VLF, SCS submitted a minor permit modification letter directed to Mr. F. Thomas Lubozynski, P.E., of the FDEP and dated November19, 2014, to modify VLF's Water Quality MPIS.

In FDEP correspondence dated December 3, 2014, a new permit was issued to VLF (Permit No. 0165969-024-SO-MM) to reflect the approved changes to the site's Water Quality MPIS. The MPIS changes made are as follows:

1. Measure water levels in all wells semi-annually and provide semi-annual water level maps for the shallow and intermediate zones.

2. Sample the shallow wells semi-annually for the Rule 62-701.510(5)(c) & (7)(a), F.A.C. required parameters currently listed in the site MPIS.

3. Sample the intermediate wells annually for indicator parameters chloride, sodium, and ammonia to verify there are no leachate impacts.

4. Sample the intermediate well(s) in question for the full list of parameters if the shallow well for the well cluster(s) shows a verified landfill impact.

5. Sample the intermediate well(s) in question for the full list of parameters if the indicator data suggests an increasing trend (or verified sudden jump far above background) that there is a landfill impact to the intermediate well(s).

6. Utilize the Upper Floridan wells as piezometers with no routine sampling unless there are verified landfill impacts in the intermediate water unit.

7. Gross alpha, aluminum, and manganese were added to the MPIS after these parameters were detected in background samples. While there have been detections of these parameters, the concentrations have all been attributed to background and not from the landfill because there are no indicator trends concurrent with these detections. Therefore, the site requests to remove these parameters from the semi-annual sampling requirement.

   Department Note: *In #3, the Department will add nitrate to the list of indicator parameters for the intermediate wells to watch that the exceedances do not extend beyond the shallow wells.*

In an email to FDEP dated January 9, 2015, SCS noted the previously approved annual sampling of the intermediate wells was not included in VLF's MPIS. The MPIS was revised on January 12, 2015. Notification of the corrected MPIS, part of permit 0165969-024-SO-MM, was sent to Jim Christiansen, WMI, on February 17, 2015.

On April 14, 2015, VLF was issued Permit No. 0165969-026-SO-MM to formally incorporate the MPIS revisions made on January 12, 2015 and to change submittal requirements from paper to electronic.

GROUNDWATER MONITORING PROGRAM

The surficial aquifer groundwater currently is monitored at the site at 15 locations. The surficial aquifer is monitored in two zones: the shallow zone ("A" wells) and the intermediate zone ("B" wells). The shallow zone is monitored semi-annually and the intermediate zone is sampled annually, during the December sampling event. The intermediate wells sampled during the June 2015 monitoring event. The intermediate wells will be sampled again during the December 2016 sampling event. The deep zone wells are used as piezometers with no routine sampling unless there are verified landfill impacts in the intermediate water unit.

Well locations for each monitored zone are shown on Figure 1-2. The monitoring wells, with their monitored zone and permitted designations as background or compliance, are listed in Table 3-1. The construction details for the 15 active monitoring wells comprising the monitoring system are included in Table 3-2.

Table 3-1. Active Surficial Aquifer Groundwater Monitoring Wells at the Vista Landfill

Shallow Zone	Intermediate 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

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

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

Table 3-2. 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"
ND	MW-2A	ND	1/15/2007	BG	Shallow Surficial	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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"
ND	MW-6A	4/15/2004	1/12/2007	BG	Shallow Surficial	101.94	61	NA	2	0.010	20	41	61	57	37	ND	ND	ND	ND
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"
ND	MW-6B	4/15/2004	1/12/2007	BG	Intermediate Surficial	101.98	88	NA	2	0.010	10	78	88	20	10	ND	ND	ND	ND
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"
ND	MW-8	4/23/2004	1/12/2007	BG	Shallow Surficial	99.7	60	NA	2	0.006	10	50	60	47	37	ND	ND	ND	ND
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"
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"
ND	MW-FL2	4/22/2004	1/15/2007	CO	Floridan	87.4	130	NA	2	0.006	10	120	130	-45	-35	ND	ND	ND	ND
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"
22828	L-1	NA	NA	CO	Leachate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND

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 Applicaple.
9. BG = Background.
10. CO = Compliance.
11. ND = Data not available.
12. OT = Other.
13. ID = Identification.

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 CFR (Code of Federal Regulations) Part 258, Appendix I

Intermediate Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Sodium
- Nitrate

Intermediate 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 intermediate well (s)

LEACHATE MONITORING PROGRAM

E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly.

SEMI-ANNUAL GROUNDWATER MONITORING EVENT

Appendix A includes the laboratory analytical data and field forms. Table 3-3 lists groundwater quality detections and exceedances. In accordance with Chapter 62-701, FAC, groundwater

results were compared to primary drinking water standards (PDWSs) and secondary drinking water standards (SDWSs) listed in Chapter 62-550. 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. GCTLs are used as a screening tool for potential anomalies in the concentration data that may require further consideration or review. Per Chapter 62-701.510(7)(c)2), GCTLs are only applicable to solid waste facilities outside of the zone of discharge.

Metals Exceedances

During the June 2016 sampling event, mercury exceeded its PDWS in background monitoring well MW-6AR. The FDEP PDWS of 2 micrograms per liter (ug/L) for mercury was exceeded during the first semiannual monitoring period in background monitoring well MW-6AR (6.8 ug/L). The dissolved methane concentration was not detected in the collected sample. 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. Mercury analysis will continue to be performed during the next monitoring event.

Inorganic Parameters Exceedances and Trends

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.

Nitrate

The FDEP PDWS of 10 milligrams per liter (mg/L) for nitrate was exceeded at background wells MW-1A (15 mg/L), MW-6AR (13 mg/L), and MW-7A (12 mg/L). These results were consistent with recent nitrate values obtained from these wells.

No exceedances of nitrate occurred at other monitoring wells. The exceedances at MW-1A, MW-6AR, and MW-7A are not due to the landfill. These wells are located hydraulically up gradient and, in the case of MW-7A, nitrate was detected in previous monitoring events prior to the placement of waste. Nitrate exceedances may be related to Rapid Infiltration Basin (RIB) facilities, which have been previously documented as potential sources for nitrates.[2]

[2] Special Publication SJ2006-SP3, *Estimates Of Upper Floridan Aquifer Recharge Augmentation Based On Hydraulic And Water-Quality Data (1986-2002) From The Water Conserv II RIB Systems, Orange County, Florida* (http://sjr.state.fl.us/programs/outreach/pubs/techpubs/pdfs/SP/SJ2006-SP3.pdf)

Table 3-3. Summary of Groundwater Quality Analytical Results (Detected Parameters Only)
Vista Landfill, June 2016

Parameter	Standard	MCL	Units	MW-1A	MW-2AR	MW-3A	MW-4A	MW-5A	MW-6AR	MW-7A	MW-8R
Well Type				**BG**	**BG**	**CO**	**CO**	**CO**	**BG**	**BG**	**BG**
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 **U**	1.9 **U**	1.9 **U**	1.9 **U**	3.3 **I**	1.9 **U**	1.9 **U**	2.5 **I**
Methylene Chloride	PDWS	5	ug/L	0.32 **U**	0.32 **U**	0.35 **IV**	0.34 **IV**	0.34 **IV**	0.32 **U**	0.35 **IV**	0.32 **U**
Metals											
Antimony	PDWS	6	ug/L	0.4 **U**	0.48 **I**	0.4 **U**	0.4 **U**	0.4 **U**	0.4 **U**	0.4 **U**	0.67 **I**
Arsenic	PDWS	10	ug/L	0.33 **U**	0.33 **U**	0.33 **U**	0.33 **U**	0.33 **U**	0.33 **U**	0.33 **U**	0.45 **I**
Barium	PDWS	2000	ug/L	26	7.5 **I**	48	26	51	26	16	16
Beryllium	PDWS	4	ug/L	0.08 **U**	0.08 **U**	0.14 **I**	0.17 **I**	0.083 **I**	0.08 **U**	0.08 **U**	0.08 **U**
Cadmium	PDWS	5	ug/L	0.45 **U**	0.45 **U**	0.45 **U**	0.45 **U**	0.45 **U**	0.76 **I**	0.45 **U**	0.45 **U**
Chromium	PDWS	100	ug/L	1.3 **I**	1.1 **I**	1.7 **I**	0.66 **U**	1.8 **I**	1.2 **I**	1.1 **I**	1.7 **I**
Cobalt	GCTL	140	ug/L	1.9 **I**	1.2 **U**	1.2 **U**	1.2 **U**	1.2 **U**	1.2 **U**	1.2 **U**	1.2 **U**
Iron	SDWS	300	ug/L	46 **I**	140	56 **I**	51 **I**	83 **I**	56 **I**	50 **I**	52 **I**
Mercury	PDWS	2	ug/L	0.027 **U**	0.027 **U**	0.027 **U**	0.027 **U**	0.03 **I**	6.8	0.027 **U**	0.027 **U**
Nickel	PDWS	100	ug/L	5.8 **I**	1.3 **U**	1.3 **U**	3.9 **I**	1.3 **U**	1.3 **U**	3.1 **I**	1.3 **U**
Sodium	PDWS	160	mg/L	7.7	1.8	2.8	1.5	2.2	11	6.3	12
Thallium	PDWS	2	ug/L	0.05 **U**	0.06 **I**	0.05 **U**	0.05 **U**	0.05 **U**	0.051 **I**	0.061 **I**	0.05 **U**
Vanadium	GCTL	49	ug/L	1.1 **U**	1.1 **U**	2 **I**	1.1 **U**	1.1 **U**	1.1 **U**	1.2 **I**	1.5 **I**
Zinc	SDWS	5000	ug/L	4.5 **U**	9.7 **I**	4.6 **I**	490	11 **I**	6.2 **I**	4.6 **I**	7.8 **I**
General Chemistry											
Chloride	SDWS	250	mg/L	15	2 **I**	3.2 **V**	2.3 **IV**	2.7 **IV**	25	11	4.2
Nitrate (as N)	PDWS	10	mg/L	15	0.58	2.1	1.4	2.9	13	12	1.9
Total Alkalinity	NS	NS	mg/L	100	1.7 **I**	38	1.6 **IV**	2.9 **IV**	12	82	81
Total Dissolved Solids	SDWS	500	mg/L	300	16	69	52	40	160	240	110
Field Parameters											
Conductivity	NS	NS	umhos/cm	463	26	110	91	67	240	350	198
Dissolved Oxygen	NS	NS	mg/L	0.7	6.2	1.8	5.5	3.6	2.8	1.5	1.7
Dissolved Oxygen	MPIS	20	% Sat.	8.95	79.24	23	71.54	46.83	35.15	18.49	20.58
Field pH	SDWS	6.5-8.5	SU	7.07	4.57	5.49	4.71	4.58	4.9	6.51	6.97
Field Temperature	NS	NS	Degrees C	27.6	27.5	27.9	28.6	28.9	27	26.5	25.1
Turbidity	NS	NS	NTU	3.05	4.03	3.84	2.63	2.33	3.98	1.93	2.85

NOTES:

1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
3. GCTL = Groundwater Clean-up Target Level (62-777 F.A.C.)
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, SDWS, or GCTL.
10. Degrees C = Degrees Celcius
11. pCi/L = picocuries per liter
12. umhos/cm = micromhos per centimeter
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. % Sat = Percent saturation
20. Percent saturation of dissolved oxygen calculated from http://www.fivecreeks.org/monitor/do.html.

Dissolved Oxygen

Dissolved oxygen values (calculated from field measurements) were above the VLF MPIS limit of not greater than 20 percent oxygen saturation at background monitoring wells MW-2AR (79.24%), MW-6AR (35.15%), and MW-8R (20.58%), and at compliance monitoring wells MW-3A (23%), MW-4A (71.54%), and MW-5A (46.83%).

The monitoring wells were purged and sampled with a bladder pump at low flow rates as indicated by their relative gpm pumping rates as follows: MW-2AR (0.13 gpm), MW-3A (0.14 gpm), MW-4A (0.17 gpm), MW-5A (0.16 gpm), MW-6AR (0.19 gpm), and MW-8R (0.17 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.

pH

The pH was below the SDWS range of 6.5 to 8.5 units in background monitoring wells MW-2AR (4.57 units) and MW-6AR (4.90 units) and in compliance wells MW-3A (5.49 units), MW-4A (4.71 units), and MW-5A (4.58 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 VLF are characteristic of the ground water in this region of Florida.

Organic Parameters Exceedances and Trends

Organic parameters were not detected above their respective PDWS, SDWS, and GCTLs.

Volatile Organic Compound Detections

There were low level volatile organic compound (VOC) detections of methylene chloride. Methylene chloride was detected at estimated concentrations at background monitoring well MW-7A (0.35 **IV** µg/L) and at compliance monitoring wells MW-3A (0.35 **IV** µg/L), MW-4A (0.34 **IV** µg/L), and MW-5A (0.34 **IV** µg/L). The "**I**" qualifier indicates that the reported values are between the laboratory method detection limit and the laboratory practical quantitation limit. The "**V"** qualifier indicates that the reported value was detected in the method blank and may be associated with the laboratory.

4 SUMMARY

The groundwater flow assessment shows the following:

- Shallow surficial aquifer groundwater in the vicinity of the site flows 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 June 2016 monitoring event.

- Nitrate exceeded its PDWS in background monitoring wells MW-1A, MW-6AR, and MW-7A. The nitrate levels are attributed to background conditions, possibly associated with local RIBs facilities.

- Mercury exceeded its PDWS in background monitoring well MW-6AR. The mercury concentration are from an off-site source and not related to landfill operations.

- Dissolved oxygen values (field measurement) were above the VLF MPIS limit of not greater than 20% oxygen saturation in the groundwater at background monitoring wells MW-2AR, MW-6AR, and MW-8R, and at compliance monitoring wells MW-3A, MW-4A, and MW-5A. 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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 280-84541-1
Client Project/Site: FL26|Vista
Sampling Event: Annual Alkalinity June
Semiannual GW Parameters June Dec

For:
Waste Management
Okeechobee Landfill
10800 NE 128th Avenue
Okeechobee, Florida 34972

Attn: Mr. Jim Christiansen

Danielle Harrington

Authorized for release by:
6/30/2016 12:57:02 PM

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

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
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
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
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.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 280-84541-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: FL26|Vista

Report Number: 280-84541-1

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 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 06/16/2016 at a temperature of 2.5C. These samples have been logged in login 280-84541-1.

The samples were received on 06/16/2016 at temperatures of 2.5C and 4.4C. These samples have been logged in login 280-84545-1.

The samples were received on 06/17/2016 at a temperature of 2.3C. These samples have been logged in login 280-84595-1.

The samples were received on 06/17/2016 at a temperature of 2.3C. These samples have been logged in login 280-84596-1.

All sample bottles were received in acceptable condition.

HOLDING TIMES

All Holding Times were met.

METHOD BLANKS

Low levels of Methylene Chloride are present in the method blank associated with QC batch 280-331557. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

Low levels of Sodium are present in the method blank associated with QC batch 280-331776. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

Low levels of Chloride are present in the method blank associated with QC batch 280-330043. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

Low levels of Alkalinity are present in the method blank associated with QC batch 280-330290. 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.

Job ID: 280-84541-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

LABORATORY CONTROL SAMPLES (LCS)
All Laboratory Control Samples were within the acceptance limits.

MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATES (MSD)
The method 8011 required 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.

GENERAL CHEMISTRY
Several samples were analyzed at dilutions for Nitrate due to high concentrations. The reporting limits have been adjusted accordingly.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: MW-1A — Lab Sample ID: 280-84541-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	63.88				ft/msl	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Conductivity	463				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.05				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

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	100		5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-7A — Lab Sample ID: 280-84541-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	65.08				ft/msl	1		Field Sampling	Total/NA
Field pH	6.51				SU	1		Field Sampling	Total/NA
Field Conductivity	350				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	26.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.93				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.5				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	82		5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 280-84541-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	51.69				ft/msl	1		Field Sampling	Total/NA
Field pH	4.58				SU	1		Field Sampling	Total/NA
Field Conductivity	67				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	28.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.33				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

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	2.9	I V	5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 280-84541-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	50.44				ft/msl	1		Field Sampling	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA
Field Conductivity	91				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	28.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.63				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	5.5				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	1.6	I V	5.0	1.1	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: MW-3A — Lab Sample ID: 280-84541-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	50.70				ft/msl	1		Field Sampling	Total/NA
Field pH	5.49				SU	1		Field Sampling	Total/NA
Field Conductivity	110				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.84				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.8				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	38		5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-1A — Lab Sample ID: 280-84545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	26		10	0.58	ug/L	1		6010B	Total Recoverable
Cobalt	1.9	I	10	1.2	ug/L	1		6010B	Total Recoverable
Chromium	1.3	I	10	0.66	ug/L	1		6010B	Total Recoverable
Nickel	5.8	I	40	1.3	ug/L	1		6010B	Total Recoverable
Iron	46	I	100	22	ug/L	1		6010B	Total Recoverable
Sodium	7.7		1.0	0.092	mg/L	1		6010B	Total Recoverable
Chloride	15		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	15		2.5	0.21	mg/L	5		300.0	Total/NA
Total Dissolved Solids	300		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-7A — Lab Sample ID: 280-84545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.35	I V	2.0	0.32	ug/L	1		8260B	Total/NA
Barium	16		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.1	I	10	0.66	ug/L	1		6010B	Total Recoverable
Nickel	3.1	I	40	1.3	ug/L	1		6010B	Total Recoverable
Iron	50	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.2	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	4.6	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	6.3		1.0	0.092	mg/L	1		6010B	Total Recoverable
Thallium	0.061	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Chloride	11		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	12		2.5	0.21	mg/L	5		300.0	Total/NA
Total Dissolved Solids	240		10	4.7	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: MW-5A — Lab Sample ID: 280-84545-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	I	20	1.9	ug/L	1		8260B	Total/NA
Methylene Chloride	0.34	I V	2.0	0.32	ug/L	1		8260B	Total/NA
Barium	51		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.8	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	83	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	11	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	2.2		1.0	0.092	mg/L	1		6010B	Total Recoverable
Beryllium	0.083	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Mercury	0.030	I	0.20	0.027	ug/L	1		7470A	Total/NA
Chloride	2.7	I V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	2.9		0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	40		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 280-84545-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.34	I V	2.0	0.32	ug/L	1		8260B	Total/NA
Barium	26		10	0.58	ug/L	1		6010B	Total Recoverable
Nickel	3.9	I	40	1.3	ug/L	1		6010B	Total Recoverable
Iron	51	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	490		20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	1.5		1.0	0.092	mg/L	1		6010B	Total Recoverable
Beryllium	0.17	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Chloride	2.3	I V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	1.4		0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	52		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 280-84545-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.35	I V	2.0	0.32	ug/L	1		8260B	Total/NA
Barium	48		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.7	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	56	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	2.0	I	10	1.1	ug/L	1		6010B	Total Recoverable
Zinc	4.6	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	2.8		1.0	0.092	mg/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3A (Continued) — Lab Sample ID: 280-84545-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.14	I	1.0	0.080	ug/L	1		6020	Total Recoverable
Chloride	3.2	V	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	2.1		0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	69		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 280-84545-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	I	20	1.9	ug/L	1		8260B	Total/NA

Client Sample ID: Equipment Blank — Lab Sample ID: 280-84595-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.72				SU	1		Field Sampling	Total/NA
Field Conductivity	4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.0				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.25	I	1.0	0.092	mg/L	1		6010B	Total Recoverable
Nitrate as N	0.26	I	0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	44		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-6AR — Lab Sample ID: 280-84595-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	51.05				ft/msl	1		Field Sampling	Total/NA
Field pH	4.90				SU	1		Field Sampling	Total/NA
Field Conductivity	240				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.98				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.8				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	26		10	0.58	ug/L	1		6010B	Total Recoverable
Cadmium	0.76	I	5.0	0.45	ug/L	1		6010B	Total Recoverable
Chromium	1.2	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	56	I	100	22	ug/L	1		6010B	Total Recoverable
Zinc	6.2	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	11		1.0	0.092	mg/L	1		6010B	Total Recoverable
Thallium	0.051	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Mercury	6.8		0.20	0.027	ug/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-6AR (Continued) — Lab Sample ID: 280-84595-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	13		2.5	0.21	mg/L	5		300.0	Total/NA
Total Dissolved Solids	160		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2AR — Lab Sample ID: 280-84595-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	51.80				ft/msl	1		Field Sampling	Total/NA
Field pH	4.57				SU	1		Field Sampling	Total/NA
Field Conductivity	26				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.03				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	6.2				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	7.5	I	10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.1	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	140		100	22	ug/L	1		6010B	Total Recoverable
Zinc	9.7	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	1.8		1.0	0.092	mg/L	1		6010B	Total Recoverable
Antimony	0.48	I	2.0	0.40	ug/L	1		6020	Total Recoverable
Thallium	0.060	I	1.0	0.050	ug/L	1		6020	Total Recoverable
Chloride	2.0	I	3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	0.58		0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	16		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8R — Lab Sample ID: 280-84595-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	52.87				ft/msl	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Conductivity	198				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.85				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.7				mg/L	1		Field Sampling	Total/NA
Field Color	NONE				No Unit	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	I	20	1.9	ug/L	1		8260B	Total/NA
Barium	16		10	0.58	ug/L	1		6010B	Total Recoverable
Chromium	1.7	I	10	0.66	ug/L	1		6010B	Total Recoverable
Iron	52	I	100	22	ug/L	1		6010B	Total Recoverable
Vanadium	1.5	I	10	1.1	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-8R (Continued) — Lab Sample ID: 280-84595-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	7.8	I	20	4.5	ug/L	1		6010B	Total Recoverable
Sodium	12		1.0	0.092	mg/L	1		6010B	Total Recoverable
Antimony	0.67	I	2.0	0.40	ug/L	1		6020	Total Recoverable
Arsenic	0.45	I	5.0	0.33	ug/L	1		6020	Total Recoverable
Chloride	4.2		3.0	0.25	mg/L	1		300.0	Total/NA
Nitrate as N	1.9		0.50	0.042	mg/L	1		300.0	Total/NA
Total Dissolved Solids	110		10	4.7	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TRIP BLANK1 — Lab Sample ID: 280-84595-5

No Detections.

Client Sample ID: Equipment Blank — Lab Sample ID: 280-84596-1

No Detections.

Client Sample ID: MW-6AR — Lab Sample ID: 280-84596-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	12		5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-2AR — Lab Sample ID: 280-84596-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	1.7	I	5.0	1.1	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-8R — Lab Sample ID: 280-84596-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	81		5.0	1.1	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

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 2320B	Alkalinity	SM	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	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.

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

Sample Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-84541-1	MW-1A	Water	06/15/16 13:59	06/16/16 09:50
280-84541-2	MW-7A	Water	06/15/16 13:21	06/16/16 09:50
280-84541-3	MW-5A	Water	06/15/16 12:33	06/16/16 09:50
280-84541-4	MW-4A	Water	06/15/16 11:57	06/16/16 09:50
280-84541-5	MW-3A	Water	06/15/16 11:23	06/16/16 09:50
280-84545-1	MW-1A	Water	06/15/16 13:59	06/16/16 09:50
280-84545-2	MW-7A	Water	06/15/16 13:21	06/16/16 09:50
280-84545-3	MW-5A	Water	06/15/16 12:33	06/16/16 09:50
280-84545-4	MW-4A	Water	06/15/16 11:57	06/16/16 09:50
280-84545-5	MW-3A	Water	06/15/16 11:23	06/16/16 09:50
280-84545-6	TRIP BLANK	Water	06/15/16 00:00	06/16/16 09:50
280-84595-1	Equipment Blank	Water	06/16/16 09:15	06/17/16 10:00
280-84595-2	MW-6AR	Water	06/16/16 08:57	06/17/16 10:00
280-84595-3	MW-2AR	Water	06/16/16 08:19	06/17/16 10:00
280-84595-4	MW-8R	Water	06/16/16 07:42	06/17/16 10:00
280-84595-5	TRIP BLANK1	Water	06/16/16 00:00	06/17/16 10:00
280-84596-1	Equipment Blank	Water	06/16/16 09:15	06/17/16 10:00
280-84596-2	MW-6AR	Water	06/16/16 08:57	06/17/16 10:00
280-84596-3	MW-2AR	Water	06/16/16 08:19	06/17/16 10:00
280-84596-4	MW-8R	Water	06/16/16 07:42	06/17/16 10:00

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/28/16 02:11	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/28/16 02:11	1
Benzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/28/16 02:11	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/28/16 02:11	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/28/16 02:11	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/28/16 02:11	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/28/16 02:11	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/28/16 02:11	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/28/16 02:11	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/28/16 02:11	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/28/16 02:11	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/28/16 02:11	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:11	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:11	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/28/16 02:11	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/28/16 02:11	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/28/16 02:11	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/28/16 02:11	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/28/16 02:11	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/28/16 02:11	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/28/16 02:11	1
Styrene	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:11	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:11	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/28/16 02:11	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/28/16 02:11	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/28/16 02:11	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/28/16 02:11	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/28/16 02:11	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/28/16 02:11	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/28/16 02:11	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/28/16 02:11	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/28/16 02:11	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/28/16 02:11	1
Toluene	0.17	U	1.0	0.17	ug/L			06/28/16 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*06/28/16 02:11*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*06/28/16 02:11*	*1*

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*06/28/16 02:11*	*1*
Dibromofluoromethane (Surr)	*114*		*77 - 120*		*06/28/16 02:11*	*1*

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/28/16 02:34	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/28/16 02:34	1
Benzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/28/16 02:34	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/28/16 02:34	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/28/16 02:34	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/28/16 02:34	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/28/16 02:34	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/28/16 02:34	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/28/16 02:34	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/28/16 02:34	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/28/16 02:34	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/28/16 02:34	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:34	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:34	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/28/16 02:34	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/28/16 02:34	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/28/16 02:34	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/28/16 02:34	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/28/16 02:34	1
Methylene Chloride	**0.35**	**I V**	2.0	0.32	ug/L			06/28/16 02:34	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/28/16 02:34	1
Styrene	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:34	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:34	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/28/16 02:34	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/28/16 02:34	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/28/16 02:34	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/28/16 02:34	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/28/16 02:34	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/28/16 02:34	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/28/16 02:34	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/28/16 02:34	1

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

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.30	U	2.0	0.30	ug/L			06/28/16 02:34	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/28/16 02:34	1
Toluene	0.17	U	1.0	0.17	ug/L			06/28/16 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*		*06/28/16 02:34*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*06/28/16 02:34*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*06/28/16 02:34*	*1*
Dibromofluoromethane (Surr)	*116*		*77 - 120*		*06/28/16 02:34*	*1*

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.3**	**I**	20	1.9	ug/L			06/28/16 02:58	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/28/16 02:58	1
Benzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/28/16 02:58	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/28/16 02:58	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/28/16 02:58	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/28/16 02:58	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/28/16 02:58	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/28/16 02:58	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/28/16 02:58	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/28/16 02:58	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/28/16 02:58	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/28/16 02:58	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:58	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 02:58	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/28/16 02:58	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/28/16 02:58	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/28/16 02:58	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/28/16 02:58	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/28/16 02:58	1
Methylene Chloride	**0.34**	**I V**	2.0	0.32	ug/L			06/28/16 02:58	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/28/16 02:58	1
Styrene	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:58	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 02:58	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/28/16 02:58	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/28/16 02:58	1

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

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/28/16 02:58	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/28/16 02:58	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/28/16 02:58	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/28/16 02:58	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/28/16 02:58	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/28/16 02:58	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/28/16 02:58	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/28/16 02:58	1
Toluene	0.17	U	1.0	0.17	ug/L			06/28/16 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*06/28/16 02:58*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*06/28/16 02:58*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*06/28/16 02:58*	*1*
Dibromofluoromethane (Surr)	*114*		*77 - 120*		*06/28/16 02:58*	*1*

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/28/16 03:21	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/28/16 03:21	1
Benzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/28/16 03:21	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/28/16 03:21	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/28/16 03:21	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/28/16 03:21	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/28/16 03:21	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/28/16 03:21	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/28/16 03:21	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/28/16 03:21	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/28/16 03:21	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/28/16 03:21	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 03:21	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 03:21	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/28/16 03:21	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/28/16 03:21	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/28/16 03:21	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/28/16 03:21	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/28/16 03:21	1
Methylene Chloride	**0.34**	**I V**	2.0	0.32	ug/L			06/28/16 03:21	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/28/16 03:21	1

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

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 03:21	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 03:21	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/28/16 03:21	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/28/16 03:21	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/28/16 03:21	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/28/16 03:21	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/28/16 03:21	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/28/16 03:21	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/28/16 03:21	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/28/16 03:21	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/28/16 03:21	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/28/16 03:21	1
Toluene	0.17	U	1.0	0.17	ug/L			06/28/16 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*06/28/16 03:21*	*1*
Toluene-d8 (Surr)	*106*		*80 - 125*		*06/28/16 03:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*06/28/16 03:21*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 120*		*06/28/16 03:21*	*1*

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/28/16 03:44	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/28/16 03:44	1
Benzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/28/16 03:44	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/28/16 03:44	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/28/16 03:44	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/28/16 03:44	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/28/16 03:44	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/28/16 03:44	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/28/16 03:44	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/28/16 03:44	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/28/16 03:44	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/28/16 03:44	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 03:44	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/28/16 03:44	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/28/16 03:44	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/28/16 03:44	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1

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

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/28/16 03:44	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/28/16 03:44	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/28/16 03:44	1
Methylene Chloride	**0.35**	**I V**	2.0	0.32	ug/L			06/28/16 03:44	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/28/16 03:44	1
Styrene	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 03:44	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/28/16 03:44	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/28/16 03:44	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/28/16 03:44	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/28/16 03:44	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/28/16 03:44	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/28/16 03:44	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/28/16 03:44	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/28/16 03:44	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/28/16 03:44	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/28/16 03:44	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/28/16 03:44	1
Toluene	0.17	U	1.0	0.17	ug/L			06/28/16 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 127*		*06/28/16 03:44*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*06/28/16 03:44*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*06/28/16 03:44*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 120*		*06/28/16 03:44*	*1*

Client Sample ID: TRIP BLANK
Date Collected: 06/15/16 00:00
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.8**	**I**	20	1.9	ug/L			06/23/16 09:21	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/23/16 09:21	1
Benzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/23/16 09:21	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/23/16 09:21	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/23/16 09:21	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/23/16 09:21	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/23/16 09:21	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/23/16 09:21	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/23/16 09:21	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/23/16 09:21	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/23/16 09:21	1

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

Client Sample ID: TRIP BLANK
Date Collected: 06/15/16 00:00
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/23/16 09:21	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 09:21	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 09:21	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/23/16 09:21	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/23/16 09:21	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/23/16 09:21	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/23/16 09:21	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/23/16 09:21	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/23/16 09:21	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/23/16 09:21	1
Styrene	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 09:21	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 09:21	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/23/16 09:21	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/23/16 09:21	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/23/16 09:21	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/23/16 09:21	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/23/16 09:21	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/23/16 09:21	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/23/16 09:21	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/23/16 09:21	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/23/16 09:21	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/23/16 09:21	1
Toluene	0.17	U	1.0	0.17	ug/L			06/23/16 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*		*06/23/16 09:21*	*1*
Toluene-d8 (Surr)	*114*		*80 - 125*		*06/23/16 09:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*06/23/16 09:21*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 120*		*06/23/16 09:21*	*1*

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/23/16 15:54	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/23/16 15:54	1
Benzene	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/23/16 15:54	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/23/16 15:54	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/23/16 15:54	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/23/16 15:54	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/23/16 15:54	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/23/16 15:54	1

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

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/23/16 15:54	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/23/16 15:54	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/23/16 15:54	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/23/16 15:54	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 15:54	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 15:54	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/23/16 15:54	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/23/16 15:54	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/23/16 15:54	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/23/16 15:54	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/23/16 15:54	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/23/16 15:54	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/23/16 15:54	1
Styrene	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 15:54	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 15:54	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/23/16 15:54	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/23/16 15:54	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/23/16 15:54	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/23/16 15:54	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/23/16 15:54	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/23/16 15:54	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/23/16 15:54	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/23/16 15:54	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/23/16 15:54	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/23/16 15:54	1
Toluene	0.17	U	1.0	0.17	ug/L			06/23/16 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*06/23/16 15:54*	*1*
Toluene-d8 (Surr)	*112*		*80 - 125*		*06/23/16 15:54*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*06/23/16 15:54*	*1*
Dibromofluoromethane (Surr)	*118*		*77 - 120*		*06/23/16 15:54*	*1*

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/29/16 10:22	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/29/16 10:22	1
Benzene	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/29/16 10:22	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/29/16 10:22	1

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

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.21	U	2.0	0.21	ug/L			06/29/16 10:22	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/29/16 10:22	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/29/16 10:22	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/29/16 10:22	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/29/16 10:22	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/29/16 10:22	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/29/16 10:22	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/29/16 10:22	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 10:22	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 10:22	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/29/16 10:22	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/29/16 10:22	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/29/16 10:22	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/29/16 10:22	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/29/16 10:22	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/29/16 10:22	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/29/16 10:22	1
Styrene	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 10:22	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 10:22	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/29/16 10:22	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/29/16 10:22	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/29/16 10:22	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/29/16 10:22	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/29/16 10:22	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/29/16 10:22	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/29/16 10:22	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/29/16 10:22	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/29/16 10:22	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/29/16 10:22	1
Toluene	0.17	U	1.0	0.17	ug/L			06/29/16 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*		*06/29/16 10:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*06/29/16 10:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*06/29/16 10:22*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 120*		*06/29/16 10:22*	*1*

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

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.5**	**I**	20	1.9	ug/L			06/29/16 11:24	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/29/16 11:24	1
Benzene	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/29/16 11:24	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/29/16 11:24	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/29/16 11:24	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/29/16 11:24	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/29/16 11:24	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/29/16 11:24	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/29/16 11:24	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/29/16 11:24	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/29/16 11:24	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/29/16 11:24	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 11:24	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 11:24	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/29/16 11:24	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/29/16 11:24	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/29/16 11:24	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/29/16 11:24	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/29/16 11:24	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/29/16 11:24	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/29/16 11:24	1
Styrene	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 11:24	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 11:24	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/29/16 11:24	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/29/16 11:24	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/29/16 11:24	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/29/16 11:24	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/29/16 11:24	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/29/16 11:24	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/29/16 11:24	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/29/16 11:24	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/29/16 11:24	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/29/16 11:24	1
Toluene	0.17	U	1.0	0.17	ug/L			06/29/16 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*		*06/29/16 11:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*06/29/16 11:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*06/29/16 11:24*	*1*

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

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*77 - 120*		*06/29/16 11:24*	*1*

Client Sample ID: TRIP BLANK1
Date Collected: 06/16/16 00:00
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/23/16 09:41	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/23/16 09:41	1
Benzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/23/16 09:41	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/23/16 09:41	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/23/16 09:41	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/23/16 09:41	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/23/16 09:41	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/23/16 09:41	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/23/16 09:41	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/23/16 09:41	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/23/16 09:41	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/23/16 09:41	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 09:41	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 09:41	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/23/16 09:41	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/23/16 09:41	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/23/16 09:41	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/23/16 09:41	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/23/16 09:41	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/23/16 09:41	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/23/16 09:41	1
Styrene	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 09:41	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 09:41	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/23/16 09:41	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/23/16 09:41	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/23/16 09:41	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/23/16 09:41	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/23/16 09:41	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/23/16 09:41	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/23/16 09:41	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/23/16 09:41	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/23/16 09:41	1

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

Client Sample ID: TRIP BLANK1
Date Collected: 06/16/16 00:00
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/23/16 09:41	1
Toluene	0.17	U	1.0	0.17	ug/L			06/23/16 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*		*06/23/16 09:41*	*1*
Toluene-d8 (Surr)	*114*		*80 - 125*		*06/23/16 09:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*06/23/16 09:41*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 120*		*06/23/16 09:41*	*1*

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
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		06/27/16 13:38	06/27/16 20:18	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		06/27/16 13:38	06/27/16 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*110*		*70 - 130*	*06/27/16 13:38*	*06/27/16 20:18*	*1*

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
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		06/27/16 13:38	06/27/16 20:38	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		06/27/16 13:38	06/27/16 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*111*		*70 - 130*	*06/27/16 13:38*	*06/27/16 20:38*	*1*

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L		06/27/16 13:38	06/27/16 20:58	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		06/27/16 13:38	06/27/16 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*06/27/16 13:38*	*06/27/16 20:58*	*1*

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
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		06/27/16 13:38	06/27/16 21:37	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		06/27/16 13:38	06/27/16 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*06/27/16 13:38*	*06/27/16 21:37*	*1*

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

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L		06/27/16 13:38	06/27/16 21:57	1
1,2-Dibromo-3-Chloropropane	0.0067	U	0.020	0.0067	ug/L		06/27/16 13:38	06/27/16 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*109*		*70 - 130*	*06/27/16 13:38*	*06/27/16 21:57*	*1*

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.019	0.0036	ug/L		06/27/16 13:38	06/27/16 22:16	1
1,2-Dibromo-3-Chloropropane	0.0066	U	0.019	0.0066	ug/L		06/27/16 13:38	06/27/16 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*85*		*70 - 130*	*06/27/16 13:38*	*06/27/16 22:16*	*1*

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.019	0.0036	ug/L		06/27/16 13:38	06/27/16 22:36	1
1,2-Dibromo-3-Chloropropane	0.0066	U	0.019	0.0066	ug/L		06/27/16 13:38	06/27/16 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*06/27/16 13:38*	*06/27/16 22:36*	*1*

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.0036	U	0.020	0.0036	ug/L		06/27/16 13:38	06/27/16 22:55	1
1,2-Dibromo-3-Chloropropane	0.0066	U	0.020	0.0066	ug/L		06/27/16 13:38	06/27/16 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*06/27/16 13:38*	*06/27/16 22:55*	*1*

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**26**		10	0.58	ug/L		06/24/16 14:35	06/28/16 03:30	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 03:30	1
Cobalt	**1.9**	**I**	10	1.2	ug/L		06/24/16 14:35	06/28/16 03:30	1
Chromium	**1.3**	**I**	10	0.66	ug/L		06/24/16 14:35	06/28/16 03:30	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 03:30	1
Nickel	**5.8**	**I**	40	1.3	ug/L		06/24/16 14:35	06/28/16 03:30	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 03:30	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 03:30	1
Iron	**46**	**I**	100	22	ug/L		06/24/16 14:35	06/28/16 17:19	1

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	1.1	U	10	1.1	ug/L		06/24/16 14:35	06/28/16 03:30	1
Zinc	4.5	U	20	4.5	ug/L		06/24/16 14:35	06/28/16 03:30	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 03:30	1
Sodium	**7.7**		1.0	0.092	mg/L		06/24/16 14:35	06/29/16 11:39	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**16**		10	0.58	ug/L		06/24/16 14:35	06/28/16 03:32	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 03:32	1
Cobalt	1.2	U	10	1.2	ug/L		06/24/16 14:35	06/28/16 03:32	1
Chromium	**1.1**	**I**	10	0.66	ug/L		06/24/16 14:35	06/28/16 03:32	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 03:32	1
Nickel	**3.1**	**I**	40	1.3	ug/L		06/24/16 14:35	06/28/16 03:32	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 03:32	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 03:32	1
Iron	**50**	**I**	100	22	ug/L		06/24/16 14:35	06/28/16 17:22	1
Vanadium	**1.2**	**I**	10	1.1	ug/L		06/24/16 14:35	06/28/16 03:32	1
Zinc	**4.6**	**I**	20	4.5	ug/L		06/24/16 14:35	06/28/16 03:32	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 03:32	1
Sodium	**6.3**		1.0	0.092	mg/L		06/24/16 14:35	06/29/16 11:42	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**51**		10	0.58	ug/L		06/24/16 14:35	06/28/16 03:35	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 03:35	1
Cobalt	1.2	U	10	1.2	ug/L		06/24/16 14:35	06/28/16 03:35	1
Chromium	**1.8**	**I**	10	0.66	ug/L		06/24/16 14:35	06/28/16 03:35	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 03:35	1
Nickel	1.3	U	40	1.3	ug/L		06/24/16 14:35	06/28/16 03:35	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 03:35	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 03:35	1
Iron	**83**	**I**	100	22	ug/L		06/24/16 14:35	06/28/16 17:24	1
Vanadium	1.1	U	10	1.1	ug/L		06/24/16 14:35	06/28/16 03:35	1
Zinc	**11**	**I**	20	4.5	ug/L		06/24/16 14:35	06/28/16 03:35	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 03:35	1
Sodium	**2.2**		1.0	0.092	mg/L		06/24/16 14:35	06/29/16 11:45	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**26**		10	0.58	ug/L		06/24/16 14:35	06/28/16 03:38	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 03:38	1
Cobalt	1.2	U	10	1.2	ug/L		06/24/16 14:35	06/28/16 03:38	1
Chromium	0.66	U	10	0.66	ug/L		06/24/16 14:35	06/28/16 03:38	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 03:38	1

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

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**3.9**	**I**	40	1.3	ug/L		06/24/16 14:35	06/28/16 03:38	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 03:38	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 03:38	1
Iron	**51**	**I**	100	22	ug/L		06/24/16 14:35	06/28/16 17:27	1
Vanadium	1.1	U	10	1.1	ug/L		06/24/16 14:35	06/28/16 03:38	1
Zinc	**490**		20	4.5	ug/L		06/24/16 14:35	06/28/16 03:38	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 03:38	1
Sodium	**1.5**		1.0	0.092	mg/L		06/24/16 14:35	06/29/16 11:48	1

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**48**		10	0.58	ug/L		06/24/16 14:35	06/28/16 03:40	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 03:40	1
Cobalt	1.2	U	10	1.2	ug/L		06/24/16 14:35	06/28/16 03:40	1
Chromium	**1.7**	**I**	10	0.66	ug/L		06/24/16 14:35	06/28/16 03:40	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 03:40	1
Nickel	1.3	U	40	1.3	ug/L		06/24/16 14:35	06/28/16 03:40	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 03:40	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 03:40	1
Iron	**56**	**I**	100	22	ug/L		06/24/16 14:35	06/28/16 17:30	1
Vanadium	**2.0**	**I**	10	1.1	ug/L		06/24/16 14:35	06/28/16 03:40	1
Zinc	**4.6**	**I**	20	4.5	ug/L		06/24/16 14:35	06/28/16 03:40	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 03:40	1
Sodium	**2.8**		1.0	0.092	mg/L		06/24/16 14:35	06/29/16 11:50	1

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	U	10	0.58	ug/L		06/27/16 08:10	06/27/16 21:18	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/27/16 08:10	06/27/16 21:18	1
Cobalt	1.2	U	10	1.2	ug/L		06/27/16 08:10	06/27/16 21:18	1
Chromium	0.66	U	10	0.66	ug/L		06/27/16 08:10	06/27/16 21:18	1
Copper	4.2	U	15	4.2	ug/L		06/27/16 08:10	06/28/16 16:00	1
Nickel	1.3	U	40	1.3	ug/L		06/27/16 08:10	06/27/16 21:18	1
Lead	2.6	U	9.0	2.6	ug/L		06/27/16 08:10	06/28/16 16:00	1
Selenium	4.9	U	15	4.9	ug/L		06/27/16 08:10	06/28/16 16:00	1
Iron	22	U	100	22	ug/L		06/27/16 08:10	06/28/16 16:00	1
Vanadium	1.1	U	10	1.1	ug/L		06/27/16 08:10	06/27/16 21:18	1
Zinc	4.5	U	20	4.5	ug/L		06/27/16 08:10	06/27/16 21:18	1
Silver	0.93	U	10	0.93	ug/L		06/27/16 08:10	06/28/16 16:00	1
Sodium	**0.25**	**I**	1.0	0.092	mg/L		06/27/16 08:10	06/27/16 21:18	1

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**26**		10	0.58	ug/L		06/27/16 08:10	06/27/16 21:21	1

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

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.76**	**I**	5.0	0.45	ug/L		06/27/16 08:10	06/27/16 21:21	1
Cobalt	1.2	U	10	1.2	ug/L		06/27/16 08:10	06/27/16 21:21	1
Chromium	**1.2**	**I**	10	0.66	ug/L		06/27/16 08:10	06/27/16 21:21	1
Copper	4.2	U	15	4.2	ug/L		06/27/16 08:10	06/28/16 16:14	1
Nickel	1.3	U	40	1.3	ug/L		06/27/16 08:10	06/27/16 21:21	1
Lead	2.6	U	9.0	2.6	ug/L		06/27/16 08:10	06/28/16 16:14	1
Selenium	4.9	U	15	4.9	ug/L		06/27/16 08:10	06/28/16 16:14	1
Iron	**56**	**I**	100	22	ug/L		06/27/16 08:10	06/28/16 16:14	1
Vanadium	1.1	U	10	1.1	ug/L		06/27/16 08:10	06/27/16 21:21	1
Zinc	**6.2**	**I**	20	4.5	ug/L		06/27/16 08:10	06/27/16 21:21	1
Silver	0.93	U	10	0.93	ug/L		06/27/16 08:10	06/28/16 16:14	1
Sodium	**11**		1.0	0.092	mg/L		06/27/16 08:10	06/27/16 21:21	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**7.5**	**I**	10	0.58	ug/L		06/27/16 08:10	06/27/16 21:24	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/27/16 08:10	06/27/16 21:24	1
Cobalt	1.2	U	10	1.2	ug/L		06/27/16 08:10	06/27/16 21:24	1
Chromium	**1.1**	**I**	10	0.66	ug/L		06/27/16 08:10	06/27/16 21:24	1
Copper	4.2	U	15	4.2	ug/L		06/27/16 08:10	06/28/16 16:17	1
Nickel	1.3	U	40	1.3	ug/L		06/27/16 08:10	06/27/16 21:24	1
Lead	2.6	U	9.0	2.6	ug/L		06/27/16 08:10	06/28/16 16:17	1
Selenium	4.9	U	15	4.9	ug/L		06/27/16 08:10	06/28/16 16:17	1
Iron	**140**		100	22	ug/L		06/27/16 08:10	06/28/16 16:17	1
Vanadium	1.1	U	10	1.1	ug/L		06/27/16 08:10	06/27/16 21:24	1
Zinc	**9.7**	**I**	20	4.5	ug/L		06/27/16 08:10	06/27/16 21:24	1
Silver	0.93	U	10	0.93	ug/L		06/27/16 08:10	06/28/16 16:17	1
Sodium	**1.8**		1.0	0.092	mg/L		06/27/16 08:10	06/27/16 21:24	1

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**16**		10	0.58	ug/L		06/27/16 08:10	06/27/16 21:26	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/27/16 08:10	06/27/16 21:26	1
Cobalt	1.2	U	10	1.2	ug/L		06/27/16 08:10	06/27/16 21:26	1
Chromium	**1.7**	**I**	10	0.66	ug/L		06/27/16 08:10	06/27/16 21:26	1
Copper	4.2	U	15	4.2	ug/L		06/27/16 08:10	06/28/16 16:19	1
Nickel	1.3	U	40	1.3	ug/L		06/27/16 08:10	06/27/16 21:26	1
Lead	2.6	U	9.0	2.6	ug/L		06/27/16 08:10	06/28/16 16:19	1
Selenium	4.9	U	15	4.9	ug/L		06/27/16 08:10	06/28/16 16:19	1
Iron	**52**	**I**	100	22	ug/L		06/27/16 08:10	06/28/16 16:19	1
Vanadium	**1.5**	**I**	10	1.1	ug/L		06/27/16 08:10	06/27/16 21:26	1
Zinc	**7.8**	**I**	20	4.5	ug/L		06/27/16 08:10	06/27/16 21:26	1
Silver	0.93	U	10	0.93	ug/L		06/27/16 08:10	06/28/16 16:19	1
Sodium	**12**		1.0	0.092	mg/L		06/27/16 08:10	06/27/16 21:26	1

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

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 03:15	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 03:15	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 03:15	1
Thallium	0.050	U	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 03:15	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 03:19	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 03:19	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 03:19	1
Thallium	**0.061**	**I**	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 03:19	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 03:22	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 03:22	1
Beryllium	**0.083**	**I**	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 03:22	1
Thallium	0.050	U	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 03:22	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 03:26	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 03:26	1
Beryllium	**0.17**	**I**	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 03:26	1
Thallium	0.050	U	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 03:26	1

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 03:30	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 03:30	1
Beryllium	**0.14**	**I**	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 03:30	1
Thallium	0.050	U	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 03:30	1

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/27/16 08:10	06/28/16 05:54	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/27/16 08:10	06/28/16 20:18	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/27/16 08:10	06/28/16 05:54	1
Thallium	0.050	U	1.0	0.050	ug/L		06/27/16 08:10	06/28/16 05:54	1

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

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/27/16 08:10	06/28/16 05:58	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/27/16 08:10	06/28/16 20:29	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/27/16 08:10	06/28/16 05:58	1
Thallium	**0.051**	**I**	1.0	0.050	ug/L		06/27/16 08:10	06/28/16 05:58	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.48**	**I**	2.0	0.40	ug/L		06/27/16 08:10	06/28/16 06:24	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/27/16 08:10	06/28/16 06:24	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/27/16 08:10	06/28/16 06:24	1
Thallium	**0.060**	**I**	1.0	0.050	ug/L		06/27/16 08:10	06/28/16 06:24	1

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.67**	**I**	2.0	0.40	ug/L		06/27/16 08:10	06/28/16 06:28	1
Arsenic	**0.45**	**I**	5.0	0.33	ug/L		06/27/16 08:10	06/28/16 06:28	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/27/16 08:10	06/28/16 06:28	1
Thallium	0.050	U	1.0	0.050	ug/L		06/27/16 08:10	06/28/16 06:28	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:20	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:28	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.030**	**I**	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:30	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:33	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50
Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:35	1

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00
Lab Sample ID: 280-84595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:38	1

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00
Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**6.8**		0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:40	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00
Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:43	1

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00
Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 17:45	1

General Chemistry

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50
Lab Sample ID: 280-84541-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**100**		5.0	1.1	mg/L			06/17/16 16:06	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50
Lab Sample ID: 280-84541-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**82**		5.0	1.1	mg/L			06/17/16 16:12	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50
Lab Sample ID: 280-84541-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**2.9**	**I V**	5.0	1.1	mg/L			06/17/16 16:17	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50
Lab Sample ID: 280-84541-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**1.6**	**I V**	5.0	1.1	mg/L			06/17/16 16:22	1

General Chemistry

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**38**		5.0	1.1	mg/L			06/17/16 16:27	1

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		3.0	0.25	mg/L			06/16/16 17:41	1
Nitrate as N	**15**		2.5	0.21	mg/L			06/17/16 04:45	5
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:07	1
Total Dissolved Solids	**300**		10	4.7	mg/L			06/21/16 11:58	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		3.0	0.25	mg/L			06/16/16 18:42	1
Nitrate as N	**12**		2.5	0.21	mg/L			06/17/16 05:47	5
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:09	1
Total Dissolved Solids	**240**		10	4.7	mg/L			06/21/16 11:58	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.7**	**I V**	3.0	0.25	mg/L			06/16/16 18:58	1
Nitrate as N	**2.9**		0.50	0.042	mg/L			06/16/16 18:58	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:11	1
Total Dissolved Solids	**40**		10	4.7	mg/L			06/21/16 11:58	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.3**	**I V**	3.0	0.25	mg/L			06/16/16 19:13	1
Nitrate as N	**1.4**		0.50	0.042	mg/L			06/16/16 19:13	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:27	1
Total Dissolved Solids	**52**		10	4.7	mg/L			06/21/16 11:58	1

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.2**	**V**	3.0	0.25	mg/L			06/16/16 19:29	1
Nitrate as N	**2.1**		0.50	0.042	mg/L			06/16/16 19:29	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:29	1
Total Dissolved Solids	**69**		10	4.7	mg/L			06/21/16 11:58	1

General Chemistry

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	3.0	0.25	mg/L			06/17/16 13:22	1
Nitrate as N	**0.26**	**I**	0.50	0.042	mg/L			06/17/16 13:22	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:33	1
Total Dissolved Solids	**44**		10	4.7	mg/L			06/22/16 14:23	1

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25**		3.0	0.25	mg/L			06/17/16 13:39	1
Nitrate as N	**13**		2.5	0.21	mg/L			06/17/16 20:50	5
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 14:41	1
Total Dissolved Solids	**160**		10	4.7	mg/L			06/22/16 14:23	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.0**	**I**	3.0	0.25	mg/L			06/17/16 14:50	1
Nitrate as N	**0.58**		0.50	0.042	mg/L			06/17/16 14:50	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 15:02	1
Total Dissolved Solids	**16**		10	4.7	mg/L			06/22/16 14:23	1

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.2**		3.0	0.25	mg/L			06/17/16 15:08	1
Nitrate as N	**1.9**		0.50	0.042	mg/L			06/17/16 15:08	1
Ammonia as N	0.022	U	0.10	0.022	mg/L			06/27/16 15:04	1
Total Dissolved Solids	**110**		10	4.7	mg/L			06/22/16 14:23	1

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84596-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.1	U	5.0	1.1	mg/L			06/24/16 17:40	1

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84596-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**12**		5.0	1.1	mg/L			06/24/16 17:45	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84596-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	**1.7**	**I**	5.0	1.1	mg/L			06/24/16 17:49	1

General Chemistry

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84596-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	81		5.0	1.1	mg/L			06/24/16 17:54	1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	63.88				ft/msl			06/15/16 11:59	1
Field pH	7.07				SU			06/15/16 11:59	1
Field Conductivity	463				umhos/cm			06/15/16 11:59	1
Field Temperature	27.6				Degrees C			06/15/16 11:59	1
Field Turbidity	3.05				NTU			06/15/16 11:59	1
Field Dissolved Oxygen	0.7				mg/L			06/15/16 11:59	1
Field Color	NONE				No Unit			06/15/16 11:59	1

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	65.08				ft/msl			06/15/16 11:21	1
Field pH	6.51				SU			06/15/16 11:21	1
Field Conductivity	350				umhos/cm			06/15/16 11:21	1
Field Temperature	26.5				Degrees C			06/15/16 11:21	1
Field Turbidity	1.93				NTU			06/15/16 11:21	1
Field Dissolved Oxygen	1.5				mg/L			06/15/16 11:21	1
Field Color	NONE				No Unit			06/15/16 11:21	1

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	51.69				ft/msl			06/15/16 10:33	1
Field pH	4.58				SU			06/15/16 10:33	1
Field Conductivity	67				umhos/cm			06/15/16 10:33	1
Field Temperature	28.9				Degrees C			06/15/16 10:33	1
Field Turbidity	2.33				NTU			06/15/16 10:33	1
Field Dissolved Oxygen	3.6				mg/L			06/15/16 10:33	1
Field Color	NONE				No Unit			06/15/16 10:33	1

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	50.44				ft/msl			06/15/16 09:57	1
Field pH	4.71				SU			06/15/16 09:57	1
Field Conductivity	91				umhos/cm			06/15/16 09:57	1
Field Temperature	28.6				Degrees C			06/15/16 09:57	1
Field Turbidity	2.63				NTU			06/15/16 09:57	1
Field Dissolved Oxygen	5.5				mg/L			06/15/16 09:57	1

Method: Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Color	NONE				No Unit			06/15/16 09:57	1

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	50.70				ft/msl			06/15/16 09:23	1
Field pH	5.49				SU			06/15/16 09:23	1
Field Conductivity	110				umhos/cm			06/15/16 09:23	1
Field Temperature	27.9				Degrees C			06/15/16 09:23	1
Field Turbidity	3.84				NTU			06/15/16 09:23	1
Field Dissolved Oxygen	1.8				mg/L			06/15/16 09:23	1
Field Color	NONE				No Unit			06/15/16 09:23	1

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.72				SU			06/16/16 07:15	1
Field Conductivity	4				umhos/cm			06/16/16 07:15	1
Field Temperature	23.7				Degrees C			06/16/16 07:15	1
Field Turbidity	0.0				NTU			06/16/16 07:15	1
Field Dissolved Oxygen	1.0				mg/L			06/16/16 07:15	1
Field Color	NONE				No Unit			06/16/16 07:15	1

Client Sample ID: MW-6AR
Date Collected: 06/16/16 08:57
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	51.05				ft/msl			06/16/16 06:57	1
Field pH	4.90				SU			06/16/16 06:57	1
Field Conductivity	240				umhos/cm			06/16/16 06:57	1
Field Temperature	27.0				Degrees C			06/16/16 06:57	1
Field Turbidity	3.98				NTU			06/16/16 06:57	1
Field Dissolved Oxygen	2.8				mg/L			06/16/16 06:57	1
Field Color	NONE				No Unit			06/16/16 06:57	1

Client Sample ID: MW-2AR
Date Collected: 06/16/16 08:19
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	51.80				ft/msl			06/16/16 06:19	1
Field pH	4.57				SU			06/16/16 06:19	1
Field Conductivity	26				umhos/cm			06/16/16 06:19	1
Field Temperature	27.5				Degrees C			06/16/16 06:19	1
Field Turbidity	4.03				NTU			06/16/16 06:19	1
Field Dissolved Oxygen	6.2				mg/L			06/16/16 06:19	1
Field Color	NONE				No Unit			06/16/16 06:19	1

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Method: Field Sampling - Field Sampling

Client Sample ID: MW-8R
Date Collected: 06/16/16 07:42
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	52.87				ft/msl			06/16/16 05:42	1
Field pH	6.97				SU			06/16/16 05:42	1
Field Conductivity	198				umhos/cm			06/16/16 05:42	1
Field Temperature	25.1				Degrees C			06/16/16 05:42	1
Field Turbidity	2.85				NTU			06/16/16 05:42	1
Field Dissolved Oxygen	1.7				mg/L			06/16/16 05:42	1
Field Color	NONE				No Unit			06/16/16 05:42	1

Surrogate Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(70-127)	(80-125)	(78-120)	(77-120)
280-84485-D-3 MS	Matrix Spike	108	112	104	108
280-84485-D-3 MSD	Matrix Spike Duplicate	108	112	105	111
280-84545-1	MW-1A	92	108	105	114
280-84545-2	MW-7A	95	105	105	116
280-84545-3	MW-5A	92	108	105	114
280-84545-4	MW-4A	91	106	103	112
280-84545-5	MW-3A	92	105	105	112
280-84545-6	TRIP BLANK	110	114	103	111
280-84578-G-1 MS	Matrix Spike	97	117	98	114
280-84578-G-1 MSD	Matrix Spike Duplicate	96	111	105	114
280-84595-2	MW-6AR	117	112	103	118
280-84595-3	MW-2AR	87	97	96	93
280-84595-3 MS	MW-2AR	80	93	92	88
280-84595-3 MSD	MW-2AR	81	94	94	87
280-84595-4	MW-8R	83	100	95	91
280-84595-5	TRIP BLANK1	110	114	103	112
LCS 280-330996/4	Lab Control Sample	110	111	107	111
LCS 280-331557/4	Lab Control Sample	98	115	100	115
LCS 280-331767/4	Lab Control Sample	87	95	95	88
MB 280-330996/6	Method Blank	109	114	106	111
MB 280-331557/6	Method Blank	98	108	108	117
MB 280-331767/6	Method Blank	85	98	106	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		12DBP1
Lab Sample ID	Client Sample ID	(70-130)
280-84545-1	MW-1A	110
280-84545-2	MW-7A	111
280-84545-3	MW-5A	113
280-84545-4	MW-4A	112
280-84545-5	MW-3A	109
280-84595-3	MW-2AR	113
280-84595-4	MW-8R	114
LCS 280-331491/3-A	Lab Control Sample	109
LCSD 280-331491/4-A	Lab Control Sample Dup	108
MB 280-331491/2-A	Method Blank	111

Surrogate Legend

12DBP = 1,2-Dibromopropane

Surrogate Summary

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

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)								
280-84595-2	MW-6AR	85								

Surrogate Legend

12DBP = 1,2-Dibromopropane

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

Lab Sample ID: MB 280-330996/6
Matrix: Water
Analysis Batch: 330996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/23/16 07:46	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/23/16 07:46	1
Benzene	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/23/16 07:46	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/23/16 07:46	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/23/16 07:46	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/23/16 07:46	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/23/16 07:46	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/23/16 07:46	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/23/16 07:46	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/23/16 07:46	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/23/16 07:46	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/23/16 07:46	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 07:46	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/23/16 07:46	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/23/16 07:46	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/23/16 07:46	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/23/16 07:46	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/23/16 07:46	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/23/16 07:46	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/23/16 07:46	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/23/16 07:46	1
Styrene	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 07:46	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/23/16 07:46	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/23/16 07:46	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/23/16 07:46	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/23/16 07:46	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/23/16 07:46	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/23/16 07:46	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/23/16 07:46	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/23/16 07:46	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/23/16 07:46	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/23/16 07:46	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/23/16 07:46	1
Toluene	0.17	U	1.0	0.17	ug/L			06/23/16 07:46	1

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

Lab Sample ID: MB 280-330996/6
Matrix: Water
Analysis Batch: 330996

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127		06/23/16 07:46	1
Toluene-d8 (Surr)	114		80 - 125		06/23/16 07:46	1
4-Bromofluorobenzene (Surr)	106		78 - 120		06/23/16 07:46	1
Dibromofluoromethane (Surr)	111		77 - 120		06/23/16 07:46	1

Lab Sample ID: LCS 280-330996/4
Matrix: Water
Analysis Batch: 330996

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.63		ug/L		113	65 - 135
Bromodichloromethane	5.00	5.57		ug/L		111	65 - 135
Carbon tetrachloride	5.00	5.53		ug/L		111	65 - 135
Chlorobenzene	5.00	5.02		ug/L		100	65 - 135
Chloroform	5.00	5.58		ug/L		112	65 - 135
1,4-Dichlorobenzene	5.00	5.03		ug/L		101	65 - 135
1,1-Dichloroethane	5.00	5.70		ug/L		114	65 - 135
trans-1,2-Dichloroethene	5.00	5.71		ug/L		114	65 - 135
1,1-Dichloroethene	5.00	5.49		ug/L		110	65 - 136
1,2-Dichloropropane	5.00	5.73		ug/L		115	64 - 135
Ethylbenzene	5.00	5.24		ug/L		105	65 - 135
Methylene Chloride	5.00	5.55		ug/L		111	54 - 141
Tetrachloroethene	5.00	5.12		ug/L		102	65 - 135
1,1,1-Trichloroethane	5.00	5.65		ug/L		113	65 - 135
Trichloroethene	5.00	5.60		ug/L		112	65 - 135
Toluene	5.00	5.92		ug/L		118	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
Toluene-d8 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	107		78 - 120
Dibromofluoromethane (Surr)	111		77 - 120

Lab Sample ID: 280-84485-D-3 MS
Matrix: Water
Analysis Batch: 330996

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
Benzene	0.16	U	5.00	5.40		ug/L		108	65 - 135
Bromodichloromethane	0.17	U	5.00	5.32		ug/L		106	65 - 135
Carbon tetrachloride	0.19	U	5.00	5.42		ug/L		108	65 - 135
Chlorobenzene	0.17	U	5.00	4.79		ug/L		96	65 - 135
Chloroform	0.16	U	5.00	5.46		ug/L		109	65 - 135
1,4-Dichlorobenzene	0.16	U	5.00	4.71		ug/L		94	65 - 135
1,1-Dichloroethane	0.22	U	5.00	5.41		ug/L		108	65 - 135
trans-1,2-Dichloroethene	0.15	U	5.00	5.52		ug/L		110	65 - 135
1,1-Dichloroethene	0.23	U	5.00	5.32		ug/L		106	65 - 136
1,2-Dichloropropane	0.18	U	5.00	5.45		ug/L		109	64 - 135

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

Lab Sample ID: 280-84485-D-3 MS
Matrix: Water
Analysis Batch: 330996

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
Ethylbenzene	0.16	U	5.00	4.98		ug/L		100	65 - 135
Methylene Chloride	0.32	U	5.00	5.17		ug/L		103	54 - 141
Tetrachloroethene	0.20	U	5.00	5.06		ug/L		101	65 - 135
1,1,1-Trichloroethane	0.16	U	5.00	5.46		ug/L		109	65 - 135
Trichloroethene	0.16	U	5.00	5.38		ug/L		108	65 - 135
Toluene	0.17	U	5.00	5.76		ug/L		115	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 127*
Toluene-d8 (Surr)	*112*		*80 - 125*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*

Lab Sample ID: 280-84485-D-3 MSD
Matrix: Water
Analysis Batch: 330996

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
Benzene	0.16	U	5.00	5.60		ug/L		112	65 - 135	4	20
Bromodichloromethane	0.17	U	5.00	5.53		ug/L		111	65 - 135	4	20
Carbon tetrachloride	0.19	U	5.00	5.48		ug/L		110	65 - 135	1	21
Chlorobenzene	0.17	U	5.00	4.93		ug/L		99	65 - 135	3	20
Chloroform	0.16	U	5.00	5.64		ug/L		113	65 - 135	3	20
1,4-Dichlorobenzene	0.16	U	5.00	4.95		ug/L		99	65 - 135	5	23
1,1-Dichloroethane	0.22	U	5.00	5.53		ug/L		111	65 - 135	2	21
trans-1,2-Dichloroethene	0.15	U	5.00	5.72		ug/L		114	65 - 135	4	24
1,1-Dichloroethene	0.23	U	5.00	5.48		ug/L		110	65 - 136	3	20
1,2-Dichloropropane	0.18	U	5.00	5.63		ug/L		113	64 - 135	3	20
Ethylbenzene	0.16	U	5.00	5.10		ug/L		102	65 - 135	2	20
Methylene Chloride	0.32	U	5.00	5.37		ug/L		107	54 - 141	4	26
Tetrachloroethene	0.20	U	5.00	5.08		ug/L		102	65 - 135	0	20
1,1,1-Trichloroethane	0.16	U	5.00	5.53		ug/L		111	65 - 135	1	20
Trichloroethene	0.16	U	5.00	5.43		ug/L		109	65 - 135	1	20
Toluene	0.17	U	5.00	5.93		ug/L		119	65 - 135	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 127*
Toluene-d8 (Surr)	*112*		*80 - 125*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*111*		*77 - 120*

Lab Sample ID: MB 280-331557/6
Matrix: Water
Analysis Batch: 331557

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/27/16 21:04	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/27/16 21:04	1

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

Lab Sample ID: MB 280-331557/6
Matrix: Water
Analysis Batch: 331557

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/27/16 21:04	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1
Bromoform	0.19	U	1.0	0.19	ug/L			06/27/16 21:04	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/27/16 21:04	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/27/16 21:04	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/27/16 21:04	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/27/16 21:04	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/27/16 21:04	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/27/16 21:04	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/27/16 21:04	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/27/16 21:04	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/27/16 21:04	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/27/16 21:04	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/27/16 21:04	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/27/16 21:04	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/27/16 21:04	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/27/16 21:04	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/27/16 21:04	1
Methylene Chloride	0.751	I	2.0	0.32	ug/L			06/27/16 21:04	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/27/16 21:04	1
Styrene	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/27/16 21:04	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/27/16 21:04	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/27/16 21:04	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/27/16 21:04	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/27/16 21:04	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/27/16 21:04	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/27/16 21:04	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/27/16 21:04	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/27/16 21:04	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/27/16 21:04	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/27/16 21:04	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/27/16 21:04	1
Toluene	0.17	U	1.0	0.17	ug/L			06/27/16 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*06/27/16 21:04*	*1*
Toluene-d8 (Surr)	*108*		*80 - 125*		*06/27/16 21:04*	*1*
4-Bromofluorobenzene (Surr)	*108*		*78 - 120*		*06/27/16 21:04*	*1*

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

Lab Sample ID: MB 280-331557/6
Matrix: Water
Analysis Batch: 331557

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		77 - 120		06/27/16 21:04	1

Lab Sample ID: LCS 280-331557/4
Matrix: Water
Analysis Batch: 331557

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.26		ug/L		105	65 - 135
Bromodichloromethane	5.00	4.89		ug/L		98	65 - 135
Carbon tetrachloride	5.00	5.29		ug/L		106	65 - 135
Chlorobenzene	5.00	5.17		ug/L		103	65 - 135
Chloroform	5.00	5.05		ug/L		101	65 - 135
1,4-Dichlorobenzene	5.00	4.83		ug/L		97	65 - 135
1,1-Dichloroethane	5.00	4.73		ug/L		95	65 - 135
trans-1,2-Dichloroethene	5.00	5.34		ug/L		107	65 - 135
1,1-Dichloroethene	5.00	5.48		ug/L		110	65 - 136
1,2-Dichloropropane	5.00	4.95		ug/L		99	64 - 135
Ethylbenzene	5.00	5.14		ug/L		103	65 - 135
Methylene Chloride	5.00	5.32	V	ug/L		106	54 - 141
Tetrachloroethene	5.00	5.25		ug/L		105	65 - 135
1,1,1-Trichloroethane	5.00	5.31		ug/L		106	65 - 135
Trichloroethene	5.00	5.56		ug/L		111	65 - 135
Toluene	5.00	5.55		ug/L		111	65 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	115		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	115		77 - 120

Lab Sample ID: 280-84578-G-1 MS
Matrix: Water
Analysis Batch: 331557

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
Benzene	0.16	U	5.00	5.41		ug/L		108	65 - 135
Bromodichloromethane	0.17	U	5.00	4.98		ug/L		100	65 - 135
Carbon tetrachloride	0.19	U	5.00	5.33		ug/L		107	65 - 135
Chlorobenzene	0.17	U	5.00	5.54		ug/L		111	65 - 135
Chloroform	0.16	U	5.00	5.20		ug/L		104	65 - 135
1,4-Dichlorobenzene	0.16	U	5.00	4.99		ug/L		100	65 - 135
1,1-Dichloroethane	0.22	U	5.00	4.87		ug/L		97	65 - 135
trans-1,2-Dichloroethene	0.15	U	5.00	5.49		ug/L		110	65 - 135
1,1-Dichloroethene	0.23	U	5.00	5.54		ug/L		111	65 - 136
1,2-Dichloropropane	0.18	U	5.00	4.99		ug/L		100	64 - 135
Ethylbenzene	0.16	U	5.00	5.52		ug/L		110	65 - 135
Methylene Chloride	0.35	I V	5.00	5.11	V	ug/L		95	54 - 141
Tetrachloroethene	0.20	U	5.00	5.46		ug/L		109	65 - 135

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

Lab Sample ID: 280-84578-G-1 MS
Matrix: Water
Analysis Batch: 331557

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.16	U	5.00	5.41		ug/L		108	65 - 135
Trichloroethene	0.16	U	5.00	5.73		ug/L		115	65 - 135
Toluene	0.17	U	5.00	5.69		ug/L		114	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
Toluene-d8 (Surr)	*117*		*80 - 125*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*114*		*77 - 120*

Lab Sample ID: 280-84578-G-1 MSD
Matrix: Water
Analysis Batch: 331557

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
Benzene	0.16	U	5.00	5.11		ug/L		102	65 - 135	6	20
Bromodichloromethane	0.17	U	5.00	4.82		ug/L		96	65 - 135	3	20
Carbon tetrachloride	0.19	U	5.00	5.03		ug/L		101	65 - 135	6	21
Chlorobenzene	0.17	U	5.00	5.24		ug/L		105	65 - 135	5	20
Chloroform	0.16	U	5.00	5.02		ug/L		100	65 - 135	3	20
1,4-Dichlorobenzene	0.16	U	5.00	5.09		ug/L		102	65 - 135	2	23
1,1-Dichloroethane	0.22	U	5.00	4.72		ug/L		94	65 - 135	3	21
trans-1,2-Dichloroethene	0.15	U	5.00	5.48		ug/L		110	65 - 135	0	24
1,1-Dichloroethene	0.23	U	5.00	5.23		ug/L		105	65 - 136	6	20
1,2-Dichloropropane	0.18	U	5.00	5.10		ug/L		102	64 - 135	2	20
Ethylbenzene	0.16	U	5.00	5.20		ug/L		104	65 - 135	6	20
Methylene Chloride	0.35	I V	5.00	4.93	V	ug/L		92	54 - 141	4	26
Tetrachloroethene	0.20	U	5.00	5.16		ug/L		103	65 - 135	6	20
1,1,1-Trichloroethane	0.16	U	5.00	5.07		ug/L		101	65 - 135	7	20
Trichloroethene	0.16	U	5.00	5.54		ug/L		111	65 - 135	3	20
Toluene	0.17	U	5.00	5.44		ug/L		109	65 - 135	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
Toluene-d8 (Surr)	*111*		*80 - 125*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*114*		*77 - 120*

Lab Sample ID: MB 280-331767/6
Matrix: Water
Analysis Batch: 331767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	U	20	1.9	ug/L			06/29/16 08:58	1
Acrylonitrile	1.4	U	20	1.4	ug/L			06/29/16 08:58	1
Benzene	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
Bromochloromethane	0.10	U	1.0	0.10	ug/L			06/29/16 08:58	1
Bromodichloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1

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

Lab Sample ID: MB 280-331767/6
Matrix: Water
Analysis Batch: 331767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.19	U	1.0	0.19	ug/L			06/29/16 08:58	1
Bromomethane	0.21	U	2.0	0.21	ug/L			06/29/16 08:58	1
Carbon disulfide	0.45	U	2.0	0.45	ug/L			06/29/16 08:58	1
Carbon tetrachloride	0.19	U	1.0	0.19	ug/L			06/29/16 08:58	1
Chlorobenzene	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1
Dibromochloromethane	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1
Chloroethane	0.41	U	2.0	0.41	ug/L			06/29/16 08:58	1
Chloroform	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1
1,2-Dichlorobenzene	0.15	U	1.0	0.15	ug/L			06/29/16 08:58	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
trans-1,4-Dichloro-2-butene	0.80	U	3.0	0.80	ug/L			06/29/16 08:58	1
1,1-Dichloroethane	0.22	U	1.0	0.22	ug/L			06/29/16 08:58	1
1,2-Dichloroethane	0.13	U	1.0	0.13	ug/L			06/29/16 08:58	1
cis-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 08:58	1
trans-1,2-Dichloroethene	0.15	U	1.0	0.15	ug/L			06/29/16 08:58	1
1,1-Dichloroethene	0.23	U	1.0	0.23	ug/L			06/29/16 08:58	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/29/16 08:58	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
trans-1,3-Dichloropropene	0.19	U	3.0	0.19	ug/L			06/29/16 08:58	1
Ethylbenzene	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
2-Hexanone	1.7	U	5.0	1.7	ug/L			06/29/16 08:58	1
Iodomethane	0.23	U	1.0	0.23	ug/L			06/29/16 08:58	1
Methylene Chloride	0.32	U	2.0	0.32	ug/L			06/29/16 08:58	1
4-Methyl-2-pentanone (MIBK)	0.98	U	5.0	0.98	ug/L			06/29/16 08:58	1
Styrene	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1
1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 08:58	1
1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21	ug/L			06/29/16 08:58	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			06/29/16 08:58	1
1,1,1-Trichloroethane	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
1,1,2-Trichloroethane	0.27	U	1.0	0.27	ug/L			06/29/16 08:58	1
Trichloroethene	0.16	U	1.0	0.16	ug/L			06/29/16 08:58	1
Trichlorofluoromethane	0.29	U	2.0	0.29	ug/L			06/29/16 08:58	1
1,2,3-Trichloropropane	0.33	U	2.5	0.33	ug/L			06/29/16 08:58	1
Vinyl acetate	0.94	U	3.0	0.94	ug/L			06/29/16 08:58	1
Vinyl chloride	0.10	U	1.0	0.10	ug/L			06/29/16 08:58	1
Xylenes (total)	0.19	U	2.0	0.19	ug/L			06/29/16 08:58	1
Chloromethane	0.30	U	2.0	0.30	ug/L			06/29/16 08:58	1
2-Butanone (MEK)	2.0	U	6.0	2.0	ug/L			06/29/16 08:58	1
Toluene	0.17	U	1.0	0.17	ug/L			06/29/16 08:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*		*06/29/16 08:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*06/29/16 08:58*	*1*
4-Bromofluorobenzene (Surr)	*106*		*78 - 120*		*06/29/16 08:58*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 120*		*06/29/16 08:58*	*1*

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

Lab Sample ID: LCS 280-331767/4
Matrix: Water
Analysis Batch: 331767

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.49		ug/L		110	65 - 135
Bromodichloromethane	5.00	5.40		ug/L		108	65 - 135
Carbon tetrachloride	5.00	5.16		ug/L		103	65 - 135
Chlorobenzene	5.00	5.25		ug/L		105	65 - 135
Chloroform	5.00	5.46		ug/L		109	65 - 135
1,4-Dichlorobenzene	5.00	5.11		ug/L		102	65 - 135
1,1-Dichloroethane	5.00	5.38		ug/L		108	65 - 135
trans-1,2-Dichloroethene	5.00	5.47		ug/L		109	65 - 135
1,1-Dichloroethene	5.00	5.25		ug/L		105	65 - 136
1,2-Dichloropropane	5.00	5.50		ug/L		110	64 - 135
Ethylbenzene	5.00	5.29		ug/L		106	65 - 135
Methylene Chloride	5.00	5.54		ug/L		111	54 - 141
Tetrachloroethene	5.00	5.08		ug/L		102	65 - 135
1,1,1-Trichloroethane	5.00	5.29		ug/L		106	65 - 135
Trichloroethene	5.00	5.26		ug/L		105	65 - 135
Toluene	5.00	5.76		ug/L		115	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 127*
Toluene-d8 (Surr)	*95*		*80 - 125*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*88*		*77 - 120*

Lab Sample ID: 280-84595-3 MS
Matrix: Water
Analysis Batch: 331767

Client Sample ID: MW-2AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.16	U	5.00	5.32		ug/L		106	65 - 135
Bromodichloromethane	0.17	U	5.00	5.15		ug/L		103	65 - 135
Carbon tetrachloride	0.19	U	5.00	5.36		ug/L		107	65 - 135
Chlorobenzene	0.17	U	5.00	5.01		ug/L		100	65 - 135
Chloroform	0.16	U	5.00	5.21		ug/L		104	65 - 135
1,4-Dichlorobenzene	0.16	U	5.00	4.97		ug/L		99	65 - 135
1,1-Dichloroethane	0.22	U	5.00	5.20		ug/L		104	65 - 135
trans-1,2-Dichloroethene	0.15	U	5.00	5.32		ug/L		106	65 - 135
1,1-Dichloroethene	0.23	U	5.00	5.10		ug/L		102	65 - 136
1,2-Dichloropropane	0.18	U	5.00	5.26		ug/L		105	64 - 135
Ethylbenzene	0.16	U	5.00	5.21		ug/L		104	65 - 135
Methylene Chloride	0.32	U	5.00	4.97		ug/L		99	54 - 141
Tetrachloroethene	0.20	U	5.00	5.18		ug/L		104	65 - 135
1,1,1-Trichloroethane	0.16	U	5.00	5.38		ug/L		108	65 - 135
Trichloroethene	0.16	U	5.00	5.10		ug/L		102	65 - 135
Toluene	0.17	U	5.00	5.69		ug/L		114	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 127*

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

Lab Sample ID: 280-84595-3 MS
Matrix: Water
Analysis Batch: 331767

Client Sample ID: MW-2AR
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*93*		*80 - 125*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*88*		*77 - 120*

Lab Sample ID: 280-84595-3 MSD
Matrix: Water
Analysis Batch: 331767

Client Sample ID: MW-2AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.16	U	5.00	5.43		ug/L		109	65 - 135	2	20
Bromodichloromethane	0.17	U	5.00	5.20		ug/L		104	65 - 135	1	20
Carbon tetrachloride	0.19	U	5.00	5.49		ug/L		110	65 - 135	2	21
Chlorobenzene	0.17	U	5.00	5.13		ug/L		103	65 - 135	2	20
Chloroform	0.16	U	5.00	5.43		ug/L		109	65 - 135	4	20
1,4-Dichlorobenzene	0.16	U	5.00	5.26		ug/L		105	65 - 135	6	23
1,1-Dichloroethane	0.22	U	5.00	5.32		ug/L		106	65 - 135	2	21
trans-1,2-Dichloroethene	0.15	U	5.00	5.50		ug/L		110	65 - 135	3	24
1,1-Dichloroethene	0.23	U	5.00	5.37		ug/L		107	65 - 136	5	20
1,2-Dichloropropane	0.18	U	5.00	5.37		ug/L		107	64 - 135	2	20
Ethylbenzene	0.16	U	5.00	5.41		ug/L		108	65 - 135	4	20
Methylene Chloride	0.32	U	5.00	5.10		ug/L		102	54 - 141	3	26
Tetrachloroethene	0.20	U	5.00	5.42		ug/L		108	65 - 135	4	20
1,1,1-Trichloroethane	0.16	U	5.00	5.55		ug/L		111	65 - 135	3	20
Trichloroethene	0.16	U	5.00	5.30		ug/L		106	65 - 135	4	20
Toluene	0.17	U	5.00	5.85		ug/L		117	65 - 135	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 127*
Toluene-d8 (Surr)	*94*		*80 - 125*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*87*		*77 - 120*

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

Lab Sample ID: MB 280-331491/2-A
Matrix: Water
Analysis Batch: 331649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331491

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		06/27/16 13:38	06/27/16 17:34	1
1,2-Dibromo-3-Chloropropane	0.0068	U	0.020	0.0068	ug/L		06/27/16 13:38	06/27/16 17:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	*111*		*70 - 130*	*06/27/16 13:38*	*06/27/16 17:34*	*1*

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

Lab Sample ID: LCS 280-331491/3-A
Matrix: Water
Analysis Batch: 331649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			0.250	0.243		ug/L		97	70 - 130		
1,2-Dibromo-3-Chloropropane			0.250	0.237		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*109*		*70 - 130*

Lab Sample ID: LCSD 280-331491/4-A
Matrix: Water
Analysis Batch: 331649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 331491

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.250	0.242		ug/L		97	70 - 130	0	10
1,2-Dibromo-3-Chloropropane			0.250	0.234		ug/L		93	70 - 130	1	10

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

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 280-330410/1-A
Matrix: Water
Analysis Batch: 331651

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	U	10	0.58	ug/L		06/24/16 14:35	06/28/16 02:17	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/24/16 14:35	06/28/16 02:17	1
Cobalt	1.2	U	10	1.2	ug/L		06/24/16 14:35	06/28/16 02:17	1
Chromium	0.66	U	10	0.66	ug/L		06/24/16 14:35	06/28/16 02:17	1
Copper	4.2	U	15	4.2	ug/L		06/24/16 14:35	06/28/16 02:17	1
Nickel	1.3	U	40	1.3	ug/L		06/24/16 14:35	06/28/16 02:17	1
Lead	2.6	U	9.0	2.6	ug/L		06/24/16 14:35	06/28/16 02:17	1
Selenium	4.9	U	15	4.9	ug/L		06/24/16 14:35	06/28/16 02:17	1
Iron	22	U	100	22	ug/L		06/24/16 14:35	06/28/16 02:17	1
Vanadium	1.1	U	10	1.1	ug/L		06/24/16 14:35	06/28/16 02:17	1
Zinc	4.5	U	20	4.5	ug/L		06/24/16 14:35	06/28/16 02:17	1
Silver	0.93	U	10	0.93	ug/L		06/24/16 14:35	06/28/16 02:17	1
Sodium	0.092	U	1.0	0.092	mg/L		06/24/16 14:35	06/28/16 02:17	1

Lab Sample ID: MB 280-330410/1-A
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	22	U	100	22	ug/L		06/24/16 14:35	06/28/16 16:38	1
Sodium	0.0935	I	1.0	0.092	mg/L		06/24/16 14:35	06/28/16 16:38	1

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

Lab Sample ID: LCS 280-330410/2-A
Matrix: Water
Analysis Batch: 331651

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2120		ug/L		106	90 - 112
Cadmium	100	96.9		ug/L		97	88 - 111
Cobalt	500	512		ug/L		102	89 - 111
Chromium	200	207		ug/L		103	90 - 113
Copper	250	265		ug/L		106	86 - 112
Nickel	500	513		ug/L		103	89 - 111
Lead	500	526		ug/L		105	89 - 110
Selenium	2000	2130		ug/L		106	85 - 112
Iron	1000	1070		ug/L		107	89 - 115
Vanadium	500	512		ug/L		102	90 - 111
Zinc	500	517		ug/L		103	85 - 111
Silver	50.0	56.1		ug/L		112	86 - 115
Sodium	50.0	53.2		mg/L		106	90 - 115

Lab Sample ID: LCS 280-330410/2-A
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	943		ug/L		94	89 - 115
Sodium	50.0	50.2		mg/L		100	90 - 115

Lab Sample ID: 280-84528-A-1-B MS
Matrix: Water
Analysis Batch: 331651

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	74		2000	2320		ug/L		112	85 - 120
Cadmium	0.45	U	100	103		ug/L		103	82 - 119
Cobalt	2.1	I	500	533		ug/L		106	82 - 119
Chromium	1.1	I	200	218		ug/L		108	73 - 135
Copper	6.3	I	250	294		ug/L		115	82 - 129
Nickel	3.9	I	500	535		ug/L		106	84 - 120
Lead	2.6	U	500	546		ug/L		109	89 - 121
Selenium	4.9	U	2000	2310		ug/L		115	71 - 140
Iron	250		1000	1520		ug/L		127	52 - 155
Vanadium	5.9	I	500	542		ug/L		107	85 - 120
Zinc	12	I	500	526		ug/L		103	60 - 137
Silver	0.93	U	50.0	60.8		ug/L		122	75 - 141
Sodium	82		50.0	137		mg/L		111	70 - 203

Lab Sample ID: 280-84528-A-1-B MS
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	230		1000	1200		ug/L		97	52 - 155
Sodium	78		50.0	131		mg/L		107	70 - 203

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

Lab Sample ID: 280-84528-A-1-C MSD
Matrix: Water
Analysis Batch: 331651

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	74		2000	2250		ug/L		109	85 - 120	3	20
Cadmium	0.45	U	100	101		ug/L		101	82 - 119	2	20
Cobalt	2.1	I	500	522		ug/L		104	82 - 119	2	20
Chromium	1.1	I	200	213		ug/L		106	73 - 135	2	20
Copper	6.3	I	250	285		ug/L		112	82 - 129	3	20
Nickel	3.9	I	500	522		ug/L		104	84 - 120	3	20
Lead	2.6	U	500	533		ug/L		107	89 - 121	3	20
Selenium	4.9	U	2000	2270		ug/L		114	71 - 140	1	20
Iron	250		1000	1310		ug/L		106	52 - 155	15	20
Vanadium	5.9	I	500	528		ug/L		104	85 - 120	3	20
Zinc	12	I	500	517		ug/L		101	60 - 137	2	20
Silver	0.93	U	50.0	58.2		ug/L		116	75 - 141	4	20
Sodium	82		50.0	132		mg/L		101	70 - 203	4	20

Lab Sample ID: 280-84528-A-1-C MSD
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 330410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	230		1000	1170		ug/L		94	52 - 155	3	20
Sodium	78		50.0	125		mg/L		96	70 - 203	4	20

Lab Sample ID: MB 280-331268/1-A
Matrix: Water
Analysis Batch: 331648

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.58	U	10	0.58	ug/L		06/27/16 08:10	06/27/16 20:10	1
Cadmium	0.45	U	5.0	0.45	ug/L		06/27/16 08:10	06/27/16 20:10	1
Cobalt	1.2	U	10	1.2	ug/L		06/27/16 08:10	06/27/16 20:10	1
Chromium	0.66	U	10	0.66	ug/L		06/27/16 08:10	06/27/16 20:10	1
Nickel	1.3	U	40	1.3	ug/L		06/27/16 08:10	06/27/16 20:10	1
Vanadium	1.1	U	10	1.1	ug/L		06/27/16 08:10	06/27/16 20:10	1
Zinc	4.5	U	20	4.5	ug/L		06/27/16 08:10	06/27/16 20:10	1
Sodium	0.092	U	1.0	0.092	mg/L		06/27/16 08:10	06/27/16 20:10	1

Lab Sample ID: MB 280-331268/1-A
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.2	U	15	4.2	ug/L		06/27/16 08:10	06/28/16 15:06	1
Lead	2.6	U	9.0	2.6	ug/L		06/27/16 08:10	06/28/16 15:06	1
Selenium	4.9	U	15	4.9	ug/L		06/27/16 08:10	06/28/16 15:06	1
Iron	22	U	100	22	ug/L		06/27/16 08:10	06/28/16 15:06	1
Silver	0.93	U	10	0.93	ug/L		06/27/16 08:10	06/28/16 15:06	1

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

Lab Sample ID: LCS 280-331268/2-A
Matrix: Water
Analysis Batch: 331648

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2000	2240		ug/L		112	90 - 112
Cadmium	100	103		ug/L		103	88 - 111
Cobalt	500	542		ug/L		108	89 - 111
Chromium	200	220		ug/L		110	90 - 113
Nickel	500	544		ug/L		109	89 - 111
Vanadium	500	539		ug/L		108	90 - 111
Zinc	500	540		ug/L		108	85 - 111
Sodium	50.0	55.9		mg/L		112	90 - 115

Lab Sample ID: LCS 280-331268/2-A
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	266		ug/L		107	86 - 112
Lead	500	531		ug/L		106	89 - 110
Selenium	2000	2040		ug/L		102	85 - 112
Iron	1000	1100		ug/L		110	89 - 115
Silver	50.0	57.4		ug/L		115	86 - 115

Lab Sample ID: 280-84485-C-3-F MS
Matrix: Water
Analysis Batch: 331648

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	22		2000	2210		ug/L		109	85 - 120
Cadmium	0.45	U	100	99.2		ug/L		99	82 - 119
Cobalt	1.2	U	500	526		ug/L		105	82 - 119
Chromium	0.66	U	200	214		ug/L		107	73 - 135
Nickel	1.3	U	500	526		ug/L		105	84 - 120
Vanadium	1.1	U	500	523		ug/L		105	85 - 120
Zinc	4.5	U	500	522		ug/L		104	60 - 137
Sodium	6.0		50.0	61.0		mg/L		110	70 - 203

Lab Sample ID: 280-84485-C-3-F MS
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	4.2	U	250	262		ug/L		105	82 - 129
Lead	2.6	U	500	513		ug/L		103	89 - 121
Selenium	4.9	U	2000	2030		ug/L		101	71 - 140
Iron	68	I	1000	1030		ug/L		69	52 - 155
Silver	0.93	U	50.0	54.5		ug/L		109	75 - 141

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

Lab Sample ID: 280-84485-C-3-G MSD
Matrix: Water
Analysis Batch: 331648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	22		2000	2240		ug/L		111	85 - 120	2	20
Cadmium	0.45	U	100	102		ug/L		102	82 - 119	3	20
Cobalt	1.2	U	500	536		ug/L		107	82 - 119	2	20
Chromium	0.66	U	200	217		ug/L		109	73 - 135	2	20
Nickel	1.3	U	500	537		ug/L		107	84 - 120	2	20
Vanadium	1.1	U	500	530		ug/L		106	85 - 120	1	20
Zinc	4.5	U	500	518		ug/L		104	60 - 137	1	20
Sodium	6.0		50.0	62.1		mg/L		112	70 - 203	2	20

Lab Sample ID: 280-84485-C-3-G MSD
Matrix: Water
Analysis Batch: 331776

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 331268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	4.2	U	250	265		ug/L		106	82 - 129	1	20
Lead	2.6	U	500	517		ug/L		103	89 - 121	1	20
Selenium	4.9	U	2000	2060		ug/L		103	71 - 140	1	20
Iron	68	I	1000	1030		ug/L		69	52 - 155	0	20
Silver	0.93	U	50.0	55.0		ug/L		110	75 - 141	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 280-330413/1-A
Matrix: Water
Analysis Batch: 331043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/22/16 08:10	06/23/16 01:46	1
Arsenic	0.33	U	5.0	0.33	ug/L		06/22/16 08:10	06/23/16 01:46	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/22/16 08:10	06/23/16 01:46	1
Thallium	0.050	U	1.0	0.050	ug/L		06/22/16 08:10	06/23/16 01:46	1

Lab Sample ID: LCS 280-330413/2-A
Matrix: Water
Analysis Batch: 331043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	40.0	36.7		ug/L		92	85 - 115
Arsenic	40.0	39.2		ug/L		98	85 - 117
Beryllium	40.0	41.2		ug/L		103	80 - 125
Thallium	40.0	40.9		ug/L		102	85 - 118

Lab Sample ID: 280-84441-C-2-D MS
Matrix: Water
Analysis Batch: 331043

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 330413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.40	U	40.0	38.0		ug/L		95	85 - 115
Arsenic	0.69	I	40.0	41.3		ug/L		101	85 - 117

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

Lab Sample ID: 280-84441-C-2-D MS
Matrix: Water
Analysis Batch: 331043

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 330413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.080	U	40.0	44.5		ug/L		111	80 - 125
Thallium	0.060	I	40.0	41.6		ug/L		104	85 - 118

Lab Sample ID: 280-84441-C-2-E MSD
Matrix: Water
Analysis Batch: 331043

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 330413

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	37.8		ug/L		94	85 - 115	1	20
Arsenic	0.69	I	40.0	41.1		ug/L		101	85 - 117	0	20
Beryllium	0.080	U	40.0	43.0		ug/L		108	80 - 125	3	20
Thallium	0.060	I	40.0	40.9		ug/L		102	85 - 118	2	20

Lab Sample ID: MB 280-330432/1-A
Matrix: Water
Analysis Batch: 331659

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	2.0	0.40	ug/L		06/27/16 08:10	06/28/16 04:56	1
Beryllium	0.080	U	1.0	0.080	ug/L		06/27/16 08:10	06/28/16 04:56	1
Thallium	0.050	U	1.0	0.050	ug/L		06/27/16 08:10	06/28/16 04:56	1

Lab Sample ID: MB 280-330432/1-A
Matrix: Water
Analysis Batch: 331828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.33	U	5.0	0.33	ug/L		06/27/16 08:10	06/28/16 19:22	1

Lab Sample ID: LCS 280-330432/2-A
Matrix: Water
Analysis Batch: 331659

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	40.0	37.2		ug/L		93	85 - 115
Beryllium	40.0	42.0		ug/L		105	80 - 125
Thallium	40.0	41.7		ug/L		104	85 - 118

Lab Sample ID: LCS 280-330432/2-A
Matrix: Water
Analysis Batch: 331828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	40.0	38.3		ug/L		96	85 - 117

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

Lab Sample ID: 280-84595-2 MS
Matrix: Water
Analysis Batch: 331659

Client Sample ID: MW-6AR
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.40	U	40.0	40.3		ug/L		101	85 - 115
Beryllium	0.080	U	40.0	41.8		ug/L		104	80 - 125
Thallium	0.051	I	40.0	41.2		ug/L		103	85 - 118

Lab Sample ID: 280-84595-2 MS
Matrix: Water
Analysis Batch: 331828

Client Sample ID: MW-6AR
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.33	U	40.0	39.3		ug/L		98	85 - 117

Lab Sample ID: 280-84595-2 MSD
Matrix: Water
Analysis Batch: 331659

Client Sample ID: MW-6AR
Prep Type: Total Recoverable
Prep Batch: 330432

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	40.4		ug/L		101	85 - 115	0	20
Beryllium	0.080	U	40.0	41.1		ug/L		103	80 - 125	2	20
Thallium	0.051	I	40.0	40.2		ug/L		100	85 - 118	2	20

Lab Sample ID: 280-84595-2 MSD
Matrix: Water
Analysis Batch: 331828

Client Sample ID: MW-6AR
Prep Type: Total Recoverable
Prep Batch: 330432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.33	U	40.0	39.9		ug/L		100	85 - 117	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-330674/1-A
Matrix: Water
Analysis Batch: 331011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	U	0.20	0.027	ug/L		06/22/16 11:10	06/22/16 16:48	1

Lab Sample ID: LCS 280-330674/2-A
Matrix: Water
Analysis Batch: 331011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.11		ug/L		102	84 - 120

Lab Sample ID: 280-84570-U-3-E MS
Matrix: Water
Analysis Batch: 331011

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 330674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.027	U	5.00	5.04		ug/L		101	75 - 125

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-84570-U-3-F MSD
Matrix: Water
Analysis Batch: 331011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 330674

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	5.04		ug/L		101	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-330042/6
Matrix: Water
Analysis Batch: 330042

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	0.042	U	0.50	0.042	mg/L			06/16/16 10:45	1

Lab Sample ID: LCS 280-330042/4
Matrix: Water
Analysis Batch: 330042

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	5.00		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-330042/5
Matrix: Water
Analysis Batch: 330042

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	5.00		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-330042/3
Matrix: Water
Analysis Batch: 330042

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	0.200	0.251	I	mg/L		126	50 - 150

Lab Sample ID: 280-84545-1 MS
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	15		25.0	41.1		mg/L		103	80 - 120

Lab Sample ID: 280-84545-1 MSD
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-1A
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	15		25.0	41.2		mg/L		104	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-84545-5 MS
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.1		5.00	7.71		mg/L		113	80 - 120

Lab Sample ID: 280-84545-5 MSD
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-3A
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	2.1		5.00	7.75		mg/L		114	80 - 120	1	20

Lab Sample ID: 280-84545-1 DU
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	15		15.2		mg/L		0.7	15

Lab Sample ID: 280-84545-5 DU
Matrix: Water
Analysis Batch: 330042

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.1		2.05		mg/L		0.08	15

Lab Sample ID: MB 280-330043/6
Matrix: Water
Analysis Batch: 330043

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.445	I	3.0	0.25	mg/L			06/16/16 10:45	1

Lab Sample ID: LCS 280-330043/4
Matrix: Water
Analysis Batch: 330043

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

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

Lab Sample ID: LCSD 280-330043/5
Matrix: Water
Analysis Batch: 330043

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	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-330043/3
Matrix: Water
Analysis Batch: 330043

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.50	2.37	I	mg/L		95	50 - 150

Lab Sample ID: 280-84545-1 MS
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	15		25.0	41.7		mg/L		108	80 - 120		

Lab Sample ID: 280-84545-1 MSD
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15		25.0	42.0		mg/L		109	80 - 120	1	20

Lab Sample ID: 280-84545-5 MS
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3.2	V	25.0	30.2		mg/L		108	80 - 120		

Lab Sample ID: 280-84545-5 MSD
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.2	V	25.0	30.4		mg/L		109	80 - 120	1	20

Lab Sample ID: 280-84545-1 DU
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	15		14.6		mg/L		0.07	15

Lab Sample ID: 280-84545-5 DU
Matrix: Water
Analysis Batch: 330043

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	3.2	V	3.13	V	mg/L		3	15

Lab Sample ID: MB 280-330204/6
Matrix: Water
Analysis Batch: 330204

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	0.042	U	0.50	0.042	mg/L			06/17/16 11:06	1

Lab Sample ID: LCS 280-330204/4
Matrix: Water
Analysis Batch: 330204

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	5.04		mg/L		101	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-330204/5
Matrix: Water
Analysis Batch: 330204

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	5.04		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-330204/3
Matrix: Water
Analysis Batch: 330204

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			0.200	0.210	I	mg/L		105	50 - 150		

Lab Sample ID: 280-84595-2 MS
Matrix: Water
Analysis Batch: 330204

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	13		25.0	38.2		mg/L		100	80 - 120		

Lab Sample ID: 280-84595-2 MSD
Matrix: Water
Analysis Batch: 330204

Client Sample ID: MW-6AR
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	13		25.0	38.4		mg/L		101	80 - 120	1	20

Lab Sample ID: 280-84595-2 DU
Matrix: Water
Analysis Batch: 330204

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	13		13.2		mg/L		0.05	15

Lab Sample ID: MB 280-330205/6
Matrix: Water
Analysis Batch: 330205

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	3.0	0.25	mg/L			06/17/16 11:06	1

Lab Sample ID: LCS 280-330205/4
Matrix: Water
Analysis Batch: 330205

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

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

Lab Sample ID: LCSD 280-330205/5
Matrix: Water
Analysis Batch: 330205

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-330205/3
Matrix: Water
Analysis Batch: 330205

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			2.50	2.53	I	mg/L		101	50 - 150		

Lab Sample ID: 280-84595-2 MS
Matrix: Water
Analysis Batch: 330205

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	25		25.0	53.0		mg/L		112	80 - 120		

Lab Sample ID: 280-84595-2 MSD
Matrix: Water
Analysis Batch: 330205

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25		25.0	53.5		mg/L		114	80 - 120	1	20

Lab Sample ID: 280-84595-2 DU
Matrix: Water
Analysis Batch: 330205

Client Sample ID: MW-6AR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	25		25.0		mg/L		0.2	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-331574/20
Matrix: Water
Analysis Batch: 331574

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			06/27/16 13:17	1

Lab Sample ID: MB 280-331574/61
Matrix: Water
Analysis Batch: 331574

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			06/27/16 14:39	1

Lab Sample ID: LCS 280-331574/18
Matrix: Water
Analysis Batch: 331574

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 (Continued)

Lab Sample ID: LCS 280-331574/59
Matrix: Water
Analysis Batch: 331574

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.50	2.49		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-331574/19
Matrix: Water
Analysis Batch: 331574

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 280-331574/60
Matrix: Water
Analysis Batch: 331574

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	2.53		mg/L		101	90 - 110	1	10

Lab Sample ID: 280-84544-C-6 MS
Matrix: Water
Analysis Batch: 331574

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	0.028	I	1.00	1.12		mg/L		109	90 - 110

Lab Sample ID: 280-84544-C-6 MSD
Matrix: Water
Analysis Batch: 331574

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	0.028	I	1.00	1.12		mg/L		109	90 - 110	1	10

Lab Sample ID: 280-84595-2 MS
Matrix: Water
Analysis Batch: 331574

Client Sample ID: MW-6AR
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	1.03		mg/L		103	90 - 110

Lab Sample ID: 280-84595-2 MSD
Matrix: Water
Analysis Batch: 331574

Client Sample ID: MW-6AR
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	1.04		mg/L		104	90 - 110	1	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-330290/31
Matrix: Water
Analysis Batch: 330290

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.79	I	5.0	1.1	mg/L			06/17/16 14:46	1

Lab Sample ID: LCS 280-330290/30
Matrix: Water
Analysis Batch: 330290

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	200	195		mg/L		98	90 - 110

Lab Sample ID: 280-84553-A-2 DU
Matrix: Water
Analysis Batch: 330290

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	1.1	U	1.1	U	mg/L		NC	10

Lab Sample ID: MB 280-331257/52
Matrix: Water
Analysis Batch: 331257

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1.1	U	5.0	1.1	mg/L			06/24/16 17:13	1

Lab Sample ID: LCS 280-331257/51
Matrix: Water
Analysis Batch: 331257

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	200	218		mg/L		109	90 - 110

Lab Sample ID: 280-84592-B-1 DU
Matrix: Water
Analysis Batch: 331257

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	77		78.6		mg/L		2	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-330710/1
Matrix: Water
Analysis Batch: 330710

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			06/21/16 11:58	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 280-330710/2
Matrix: Water
Analysis Batch: 330710

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	86 - 110		

Lab Sample ID: 280-84545-1 DU
Matrix: Water
Analysis Batch: 330710

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	300			297		mg/L				0.7	10

Lab Sample ID: MB 280-330923/1
Matrix: Water
Analysis Batch: 330923

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			06/22/16 14:23	1

Lab Sample ID: LCS 280-330923/2
Matrix: Water
Analysis Batch: 330923

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	487		mg/L		97	86 - 110		

Lab Sample ID: 280-84595-4 DU
Matrix: Water
Analysis Batch: 330923

Client Sample ID: MW-8R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	110			109		mg/L				3	10

GC/MS VOA

Analysis Batch: 330996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84485-D-3 MS	Matrix Spike	Total/NA	Water	8260B	
280-84485-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
280-84545-6	TRIP BLANK	Total/NA	Water	8260B	
280-84595-2	MW-6AR	Total/NA	Water	8260B	
280-84595-5	TRIP BLANK1	Total/NA	Water	8260B	
LCS 280-330996/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-330996/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 331557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	8260B	
280-84545-2	MW-7A	Total/NA	Water	8260B	
280-84545-3	MW-5A	Total/NA	Water	8260B	
280-84545-4	MW-4A	Total/NA	Water	8260B	
280-84545-5	MW-3A	Total/NA	Water	8260B	
280-84578-G-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-84578-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 280-331557/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-331557/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 331767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-3	MW-2AR	Total/NA	Water	8260B	
280-84595-3 MS	MW-2AR	Total/NA	Water	8260B	
280-84595-3 MSD	MW-2AR	Total/NA	Water	8260B	
280-84595-4	MW-8R	Total/NA	Water	8260B	
LCS 280-331767/4	Lab Control Sample	Total/NA	Water	8260B	
MB 280-331767/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 331491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	8011	
280-84545-2	MW-7A	Total/NA	Water	8011	
280-84545-3	MW-5A	Total/NA	Water	8011	
280-84545-4	MW-4A	Total/NA	Water	8011	
280-84545-5	MW-3A	Total/NA	Water	8011	
280-84595-2	MW-6AR	Total/NA	Water	8011	
280-84595-3	MW-2AR	Total/NA	Water	8011	
280-84595-4	MW-8R	Total/NA	Water	8011	
LCS 280-331491/3-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 280-331491/4-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 280-331491/2-A	Method Blank	Total/NA	Water	8011	

Analysis Batch: 331649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	8011	331491
280-84545-2	MW-7A	Total/NA	Water	8011	331491
280-84545-3	MW-5A	Total/NA	Water	8011	331491

GC Semi VOA (Continued)

Analysis Batch: 331649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-4	MW-4A	Total/NA	Water	8011	331491
280-84545-5	MW-3A	Total/NA	Water	8011	331491
280-84595-2	MW-6AR	Total/NA	Water	8011	331491
280-84595-3	MW-2AR	Total/NA	Water	8011	331491
280-84595-4	MW-8R	Total/NA	Water	8011	331491
LCS 280-331491/3-A	Lab Control Sample	Total/NA	Water	8011	331491
LCSD 280-331491/4-A	Lab Control Sample Dup	Total/NA	Water	8011	331491
MB 280-331491/2-A	Method Blank	Total/NA	Water	8011	331491

Metals

Prep Batch: 330410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84528-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
280-84528-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-84545-1	MW-1A	Total Recoverable	Water	3005A	
280-84545-2	MW-7A	Total Recoverable	Water	3005A	
280-84545-3	MW-5A	Total Recoverable	Water	3005A	
280-84545-4	MW-4A	Total Recoverable	Water	3005A	
280-84545-5	MW-3A	Total Recoverable	Water	3005A	
LCS 280-330410/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-330410/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 330413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84441-C-2-D MS	Matrix Spike	Total Recoverable	Water	3005A	
280-84441-C-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-84545-1	MW-1A	Total Recoverable	Water	3005A	
280-84545-2	MW-7A	Total Recoverable	Water	3005A	
280-84545-3	MW-5A	Total Recoverable	Water	3005A	
280-84545-4	MW-4A	Total Recoverable	Water	3005A	
280-84545-5	MW-3A	Total Recoverable	Water	3005A	
LCS 280-330413/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-330413/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 330432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total Recoverable	Water	3005A	
280-84595-2	MW-6AR	Total Recoverable	Water	3005A	
280-84595-2 MS	MW-6AR	Total Recoverable	Water	3005A	
280-84595-2 MSD	MW-6AR	Total Recoverable	Water	3005A	
280-84595-3	MW-2AR	Total Recoverable	Water	3005A	
280-84595-4	MW-8R	Total Recoverable	Water	3005A	
LCS 280-330432/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-330432/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 330674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	7470A	
280-84545-2	MW-7A	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 330674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-3	MW-5A	Total/NA	Water	7470A	
280-84545-4	MW-4A	Total/NA	Water	7470A	
280-84545-5	MW-3A	Total/NA	Water	7470A	
280-84570-U-3-E MS	Matrix Spike	Total/NA	Water	7470A	
280-84570-U-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
280-84595-1	Equipment Blank	Total/NA	Water	7470A	
280-84595-2	MW-6AR	Total/NA	Water	7470A	
280-84595-3	MW-2AR	Total/NA	Water	7470A	
280-84595-4	MW-8R	Total/NA	Water	7470A	
LCS 280-330674/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 280-330674/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 331011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	7470A	330674
280-84545-2	MW-7A	Total/NA	Water	7470A	330674
280-84545-3	MW-5A	Total/NA	Water	7470A	330674
280-84545-4	MW-4A	Total/NA	Water	7470A	330674
280-84545-5	MW-3A	Total/NA	Water	7470A	330674
280-84570-U-3-E MS	Matrix Spike	Total/NA	Water	7470A	330674
280-84570-U-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	330674
280-84595-1	Equipment Blank	Total/NA	Water	7470A	330674
280-84595-2	MW-6AR	Total/NA	Water	7470A	330674
280-84595-3	MW-2AR	Total/NA	Water	7470A	330674
280-84595-4	MW-8R	Total/NA	Water	7470A	330674
LCS 280-330674/2-A	Lab Control Sample	Total/NA	Water	7470A	330674
MB 280-330674/1-A	Method Blank	Total/NA	Water	7470A	330674

Analysis Batch: 331043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84441-C-2-D MS	Matrix Spike	Total Recoverable	Water	6020	330413
280-84441-C-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	330413
280-84545-1	MW-1A	Total Recoverable	Water	6020	330413
280-84545-2	MW-7A	Total Recoverable	Water	6020	330413
280-84545-3	MW-5A	Total Recoverable	Water	6020	330413
280-84545-4	MW-4A	Total Recoverable	Water	6020	330413
280-84545-5	MW-3A	Total Recoverable	Water	6020	330413
LCS 280-330413/2-A	Lab Control Sample	Total Recoverable	Water	6020	330413
MB 280-330413/1-A	Method Blank	Total Recoverable	Water	6020	330413

Prep Batch: 331268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84485-C-3-F MS	Matrix Spike	Total Recoverable	Water	3005A	
280-84485-C-3-G MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
280-84595-1	Equipment Blank	Total Recoverable	Water	3005A	
280-84595-2	MW-6AR	Total Recoverable	Water	3005A	
280-84595-3	MW-2AR	Total Recoverable	Water	3005A	
280-84595-4	MW-8R	Total Recoverable	Water	3005A	
LCS 280-331268/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 280-331268/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 331648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84485-C-3-F MS	Matrix Spike	Total Recoverable	Water	6010B	331268
280-84485-C-3-G MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	331268
280-84595-1	Equipment Blank	Total Recoverable	Water	6010B	331268
280-84595-2	MW-6AR	Total Recoverable	Water	6010B	331268
280-84595-3	MW-2AR	Total Recoverable	Water	6010B	331268
280-84595-4	MW-8R	Total Recoverable	Water	6010B	331268
LCS 280-331268/2-A	Lab Control Sample	Total Recoverable	Water	6010B	331268
MB 280-331268/1-A	Method Blank	Total Recoverable	Water	6010B	331268

Analysis Batch: 331651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84528-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	330410
280-84528-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	330410
280-84545-1	MW-1A	Total Recoverable	Water	6010B	330410
280-84545-2	MW-7A	Total Recoverable	Water	6010B	330410
280-84545-3	MW-5A	Total Recoverable	Water	6010B	330410
280-84545-4	MW-4A	Total Recoverable	Water	6010B	330410
280-84545-5	MW-3A	Total Recoverable	Water	6010B	330410
LCS 280-330410/2-A	Lab Control Sample	Total Recoverable	Water	6010B	330410
MB 280-330410/1-A	Method Blank	Total Recoverable	Water	6010B	330410

Analysis Batch: 331659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total Recoverable	Water	6020	330432
280-84595-2	MW-6AR	Total Recoverable	Water	6020	330432
280-84595-2 MS	MW-6AR	Total Recoverable	Water	6020	330432
280-84595-2 MSD	MW-6AR	Total Recoverable	Water	6020	330432
280-84595-3	MW-2AR	Total Recoverable	Water	6020	330432
280-84595-4	MW-8R	Total Recoverable	Water	6020	330432
LCS 280-330432/2-A	Lab Control Sample	Total Recoverable	Water	6020	330432
MB 280-330432/1-A	Method Blank	Total Recoverable	Water	6020	330432

Analysis Batch: 331776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84485-C-3-F MS	Matrix Spike	Total Recoverable	Water	6010B	331268
280-84485-C-3-G MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	331268
280-84528-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	330410
280-84528-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	330410
280-84545-1	MW-1A	Total Recoverable	Water	6010B	330410
280-84545-2	MW-7A	Total Recoverable	Water	6010B	330410
280-84545-3	MW-5A	Total Recoverable	Water	6010B	330410
280-84545-4	MW-4A	Total Recoverable	Water	6010B	330410
280-84545-5	MW-3A	Total Recoverable	Water	6010B	330410
280-84595-1	Equipment Blank	Total Recoverable	Water	6010B	331268
280-84595-2	MW-6AR	Total Recoverable	Water	6010B	331268
280-84595-3	MW-2AR	Total Recoverable	Water	6010B	331268
280-84595-4	MW-8R	Total Recoverable	Water	6010B	331268
LCS 280-330410/2-A	Lab Control Sample	Total Recoverable	Water	6010B	330410
LCS 280-331268/2-A	Lab Control Sample	Total Recoverable	Water	6010B	331268
MB 280-330410/1-A	Method Blank	Total Recoverable	Water	6010B	330410
MB 280-331268/1-A	Method Blank	Total Recoverable	Water	6010B	331268

Analysis Batch: 331828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total Recoverable	Water	6020	330432
280-84595-2	MW-6AR	Total Recoverable	Water	6020	330432
280-84595-2 MS	MW-6AR	Total Recoverable	Water	6020	330432
280-84595-2 MSD	MW-6AR	Total Recoverable	Water	6020	330432
LCS 280-330432/2-A	Lab Control Sample	Total Recoverable	Water	6020	330432
MB 280-330432/1-A	Method Blank	Total Recoverable	Water	6020	330432

Analysis Batch: 331863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total Recoverable	Water	6010B	330410
280-84545-2	MW-7A	Total Recoverable	Water	6010B	330410
280-84545-3	MW-5A	Total Recoverable	Water	6010B	330410
280-84545-4	MW-4A	Total Recoverable	Water	6010B	330410
280-84545-5	MW-3A	Total Recoverable	Water	6010B	330410

General Chemistry

Analysis Batch: 330042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	300.0	
280-84545-1 DU	MW-1A	Total/NA	Water	300.0	
280-84545-1 MS	MW-1A	Total/NA	Water	300.0	
280-84545-1 MSD	MW-1A	Total/NA	Water	300.0	
280-84545-2	MW-7A	Total/NA	Water	300.0	
280-84545-3	MW-5A	Total/NA	Water	300.0	
280-84545-4	MW-4A	Total/NA	Water	300.0	
280-84545-5	MW-3A	Total/NA	Water	300.0	
280-84545-5 DU	MW-3A	Total/NA	Water	300.0	
280-84545-5 MS	MW-3A	Total/NA	Water	300.0	
280-84545-5 MSD	MW-3A	Total/NA	Water	300.0	
LCS 280-330042/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-330042/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-330042/6	Method Blank	Total/NA	Water	300.0	
MRL 280-330042/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 330043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	300.0	
280-84545-1 DU	MW-1A	Total/NA	Water	300.0	
280-84545-1 MS	MW-1A	Total/NA	Water	300.0	
280-84545-1 MSD	MW-1A	Total/NA	Water	300.0	
280-84545-2	MW-7A	Total/NA	Water	300.0	
280-84545-3	MW-5A	Total/NA	Water	300.0	
280-84545-4	MW-4A	Total/NA	Water	300.0	
280-84545-5	MW-3A	Total/NA	Water	300.0	
280-84545-5 DU	MW-3A	Total/NA	Water	300.0	
280-84545-5 MS	MW-3A	Total/NA	Water	300.0	
280-84545-5 MSD	MW-3A	Total/NA	Water	300.0	
LCS 280-330043/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-330043/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-330043/6	Method Blank	Total/NA	Water	300.0	
MRL 280-330043/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 330204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total/NA	Water	300.0	
280-84595-2	MW-6AR	Total/NA	Water	300.0	
280-84595-2 DU	MW-6AR	Total/NA	Water	300.0	
280-84595-2 MS	MW-6AR	Total/NA	Water	300.0	
280-84595-2 MSD	MW-6AR	Total/NA	Water	300.0	
280-84595-3	MW-2AR	Total/NA	Water	300.0	
280-84595-4	MW-8R	Total/NA	Water	300.0	
LCS 280-330204/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-330204/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-330204/6	Method Blank	Total/NA	Water	300.0	
MRL 280-330204/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 330205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total/NA	Water	300.0	
280-84595-2	MW-6AR	Total/NA	Water	300.0	
280-84595-2 DU	MW-6AR	Total/NA	Water	300.0	
280-84595-2 MS	MW-6AR	Total/NA	Water	300.0	
280-84595-2 MSD	MW-6AR	Total/NA	Water	300.0	
280-84595-3	MW-2AR	Total/NA	Water	300.0	
280-84595-4	MW-8R	Total/NA	Water	300.0	
LCS 280-330205/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-330205/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 280-330205/6	Method Blank	Total/NA	Water	300.0	
MRL 280-330205/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 330290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84541-1	MW-1A	Total/NA	Water	SM 2320B	
280-84541-2	MW-7A	Total/NA	Water	SM 2320B	
280-84541-3	MW-5A	Total/NA	Water	SM 2320B	
280-84541-4	MW-4A	Total/NA	Water	SM 2320B	
280-84541-5	MW-3A	Total/NA	Water	SM 2320B	
280-84553-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 280-330290/30	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 280-330290/31	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 330710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84545-1	MW-1A	Total/NA	Water	SM 2540C	
280-84545-1 DU	MW-1A	Total/NA	Water	SM 2540C	
280-84545-2	MW-7A	Total/NA	Water	SM 2540C	
280-84545-3	MW-5A	Total/NA	Water	SM 2540C	
280-84545-4	MW-4A	Total/NA	Water	SM 2540C	
280-84545-5	MW-3A	Total/NA	Water	SM 2540C	
LCS 280-330710/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 280-330710/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 330923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-1	Equipment Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 330923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-2	MW-6AR	Total/NA	Water	SM 2540C	
280-84595-3	MW-2AR	Total/NA	Water	SM 2540C	
280-84595-4	MW-8R	Total/NA	Water	SM 2540C	
280-84595-4 DU	MW-8R	Total/NA	Water	SM 2540C	
LCS 280-330923/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 280-330923/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 331257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84592-B-1 DU	Duplicate	Total/NA	Water	SM 2320B	
280-84596-1	Equipment Blank	Total/NA	Water	SM 2320B	
280-84596-2	MW-6AR	Total/NA	Water	SM 2320B	
280-84596-3	MW-2AR	Total/NA	Water	SM 2320B	
280-84596-4	MW-8R	Total/NA	Water	SM 2320B	
LCS 280-331257/51	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 280-331257/52	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 331574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84544-C-6 MS	Matrix Spike	Total/NA	Water	350.1	
280-84544-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
280-84545-1	MW-1A	Total/NA	Water	350.1	
280-84545-2	MW-7A	Total/NA	Water	350.1	
280-84545-3	MW-5A	Total/NA	Water	350.1	
280-84545-4	MW-4A	Total/NA	Water	350.1	
280-84545-5	MW-3A	Total/NA	Water	350.1	
280-84595-1	Equipment Blank	Total/NA	Water	350.1	
280-84595-2	MW-6AR	Total/NA	Water	350.1	
280-84595-2 MS	MW-6AR	Total/NA	Water	350.1	
280-84595-2 MSD	MW-6AR	Total/NA	Water	350.1	
280-84595-3	MW-2AR	Total/NA	Water	350.1	
280-84595-4	MW-8R	Total/NA	Water	350.1	
LCS 280-331574/18	Lab Control Sample	Total/NA	Water	350.1	
LCS 280-331574/59	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-331574/19	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 280-331574/60	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 280-331574/20	Method Blank	Total/NA	Water	350.1	
MB 280-331574/61	Method Blank	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 330568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84541-1	MW-1A	Total/NA	Water	Field Sampling	
280-84541-2	MW-7A	Total/NA	Water	Field Sampling	
280-84541-3	MW-5A	Total/NA	Water	Field Sampling	
280-84541-4	MW-4A	Total/NA	Water	Field Sampling	
280-84541-5	MW-3A	Total/NA	Water	Field Sampling	
280-84595-1	Equipment Blank	Total/NA	Water	Field Sampling	
280-84595-2	MW-6AR	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 330568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-84595-3	MW-2AR	Total/NA	Water	Field Sampling	
280-84595-4	MW-8R	Total/NA	Water	Field Sampling	

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-1
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	SM 2320B		1	1 mL		330290	06/17/16 16:06	IEU	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/15/16 11:59	C1K	TAL DEN

Client Sample ID: MW-7A
Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-2
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	SM 2320B		1	1 mL		330290	06/17/16 16:12	IEU	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/15/16 11:21	C1K	TAL DEN

Client Sample ID: MW-5A
Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-3
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	SM 2320B		1	1 mL		330290	06/17/16 16:17	IEU	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/15/16 10:33	C1K	TAL DEN

Client Sample ID: MW-4A
Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-4
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	SM 2320B		1	1 mL		330290	06/17/16 16:22	IEU	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/15/16 09:57	C1K	TAL DEN

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84541-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	1 mL		330290	06/17/16 16:27	IEU	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/15/16 09:23	C1K	TAL DEN

Client Sample ID: MW-1A
Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1
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	20 mL	20 mL	331557	06/28/16 02:11	BBB	TAL DEN

Client Sample ID: MW-1A

Date Collected: 06/15/16 13:59
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.4 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	331649	06/27/16 20:18	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331651	06/28/16 03:30	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 17:19	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331863	06/29/16 11:39	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330413	06/22/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331043	06/23/16 03:15	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:20	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330043	06/16/16 17:41	AFB	TAL DEN
Total/NA	Analysis	300.0		5	5 mL	5 mL	330042	06/17/16 04:45	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:07	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330710	06/21/16 11:58	MNG	TAL DEN

Client Sample ID: MW-7A

Date Collected: 06/15/16 13:21
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-2

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	20 mL	20 mL	331557	06/28/16 02:34	BBB	TAL DEN
Total/NA	Prep	8011			35.2 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.2 mL	35 mL	331649	06/27/16 20:38	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331651	06/28/16 03:32	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 17:22	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331863	06/29/16 11:42	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330413	06/22/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331043	06/23/16 03:19	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:28	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330043	06/16/16 18:42	AFB	TAL DEN
Total/NA	Analysis	300.0		5	5 mL	5 mL	330042	06/17/16 05:47	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:09	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330710	06/21/16 11:58	MNG	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: MW-5A

Date Collected: 06/15/16 12:33
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-3

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	20 mL	20 mL	331557	06/28/16 02:58	BBB	TAL DEN
Total/NA	Prep	8011			35.5 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.5 mL	35 mL	331649	06/27/16 20:58	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331651	06/28/16 03:35	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 17:24	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331863	06/29/16 11:45	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330413	06/22/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331043	06/23/16 03:22	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:30	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330042	06/16/16 18:58	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330043	06/16/16 18:58	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:11	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330710	06/21/16 11:58	MNG	TAL DEN

Client Sample ID: MW-4A

Date Collected: 06/15/16 11:57
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-4

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	20 mL	20 mL	331557	06/28/16 03:21	BBB	TAL DEN
Total/NA	Prep	8011			35.4 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.4 mL	35 mL	331649	06/27/16 21:37	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331651	06/28/16 03:38	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 17:27	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331863	06/29/16 11:48	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330413	06/22/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331043	06/23/16 03:26	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:33	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330042	06/16/16 19:13	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330043	06/16/16 19:13	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:27	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330710	06/21/16 11:58	MNG	TAL DEN

Client Sample ID: MW-3A
Date Collected: 06/15/16 11:23
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	331557	06/28/16 03:44	BBB	TAL DEN
Total/NA	Prep	8011			35.6 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.6 mL	35 mL	331649	06/27/16 21:57	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331651	06/28/16 03:40	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 17:30	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330410	06/24/16 14:35	MLS	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331863	06/29/16 11:50	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330413	06/22/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331043	06/23/16 03:30	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:35	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330042	06/16/16 19:29	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330043	06/16/16 19:29	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:29	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330710	06/21/16 11:58	MNG	TAL DEN

Client Sample ID: TRIP BLANK
Date Collected: 06/15/16 00:00
Date Received: 06/16/16 09:50

Lab Sample ID: 280-84545-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	330996	06/23/16 09:21	TAW	TAL DEN

Client Sample ID: Equipment Blank
Date Collected: 06/16/16 09:15
Date Received: 06/17/16 10:00

Lab Sample ID: 280-84595-1
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	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331648	06/27/16 21:18	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 16:00	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331659	06/28/16 05:54	JM	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331828	06/28/16 20:18	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:38	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330204	06/17/16 13:22	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330205	06/17/16 13:22	AFB	TAL DEN

Client Sample ID: Equipment Blank

Lab Sample ID: 280-84595-1

Date Collected: 06/16/16 09:15

Matrix: Water

Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1			331574	06/27/16 14:33	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330923	06/22/16 14:23	MNG	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/16/16 07:15	C1K	TAL DEN

Client Sample ID: MW-6AR

Lab Sample ID: 280-84595-2

Date Collected: 06/16/16 08:57

Matrix: Water

Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	330996	06/23/16 15:54	TAW	TAL DEN
Total/NA	Prep	8011			35.9 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.9 mL	35 mL	331649	06/27/16 22:16	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331648	06/27/16 21:21	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 16:14	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331659	06/28/16 05:58	JM	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331828	06/28/16 20:29	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:40	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330205	06/17/16 13:39	AFB	TAL DEN
Total/NA	Analysis	300.0		5	5 mL	5 mL	330204	06/17/16 20:50	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 14:41	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330923	06/22/16 14:23	MNG	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/16/16 06:57	C1K	TAL DEN

Client Sample ID: MW-2AR

Lab Sample ID: 280-84595-3

Date Collected: 06/16/16 08:19

Matrix: Water

Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	331767	06/29/16 10:22	TAW	TAL DEN
Total/NA	Prep	8011			35.9 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.9 mL	35 mL	331649	06/27/16 22:36	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331648	06/27/16 21:24	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 16:17	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331659	06/28/16 06:24	JM	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: MW-2AR

Lab Sample ID: 280-84595-3

Date Collected: 06/16/16 08:19

Matrix: Water

Date Received: 06/17/16 10:00

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	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:43	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330204	06/17/16 14:50	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330205	06/17/16 14:50	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 15:02	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330923	06/22/16 14:23	MNG	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/16/16 06:19	C1K	TAL DEN

Client Sample ID: MW-8R

Lab Sample ID: 280-84595-4

Date Collected: 06/16/16 07:42

Matrix: Water

Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	331767	06/29/16 11:24	TAW	TAL DEN
Total/NA	Prep	8011			35.8 mL	35 mL	331491	06/27/16 13:38	EER	TAL DEN
Total/NA	Analysis	8011		1	35.8 mL	35 mL	331649	06/27/16 22:55	EER	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331648	06/27/16 21:26	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	331268	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6010B		1	50 mL	50 mL	331776	06/28/16 16:19	SJS	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	330432	06/27/16 08:10	TEB	TAL DEN
Total Recoverable	Analysis	6020		1	50 mL	50 mL	331659	06/28/16 06:28	JM	TAL DEN
Total/NA	Prep	7470A			30 mL	50 mL	330674	06/22/16 11:10	CDH	TAL DEN
Total/NA	Analysis	7470A		1	30 mL	50 mL	331011	06/22/16 17:45	CDH	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330204	06/17/16 15:08	AFB	TAL DEN
Total/NA	Analysis	300.0		1	5 mL	5 mL	330205	06/17/16 15:08	AFB	TAL DEN
Total/NA	Analysis	350.1		1			331574	06/27/16 15:04	CML	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330923	06/22/16 14:23	MNG	TAL DEN
Total/NA	Analysis	Field Sampling		1			330568	06/16/16 05:42	C1K	TAL DEN

Client Sample ID: TRIP BLANK1

Lab Sample ID: 280-84595-5

Date Collected: 06/16/16 00:00

Matrix: Water

Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	330996	06/23/16 09:41	TAW	TAL DEN

Lab Chronicle

Client: Waste Management
Project/Site: FL26|Vista

TestAmerica Job ID: 280-84541-1

Client Sample ID: Equipment Blank — Lab Sample ID: 280-84596-1

Date Collected: 06/16/16 09:15 — **Matrix: Water**
Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	1 mL		331257	06/24/16 17:40	IEU	TAL DEN

Client Sample ID: MW-6AR — Lab Sample ID: 280-84596-2

Date Collected: 06/16/16 08:57 — **Matrix: Water**
Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	1 mL		331257	06/24/16 17:45	IEU	TAL DEN

Client Sample ID: MW-2AR — Lab Sample ID: 280-84596-3

Date Collected: 06/16/16 08:19 — **Matrix: Water**
Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	1 mL		331257	06/24/16 17:49	IEU	TAL DEN

Client Sample ID: MW-8R — Lab Sample ID: 280-84596-4

Date Collected: 06/16/16 07:42 — **Matrix: Water**
Date Received: 06/17/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	1 mL		331257	06/24/16 17:54	IEU	TAL DEN

Laboratory References:

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

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-42730-16536.1
Client Contact: Mr. Jim Christiansen	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: jchristi@wm.com	WO #:
Project Name: Annual Alkalinity June	Project #: 28002729
Site:FL26|Visa Florida	SSOW#:

Analysis Requested

280-84541 Chain of Custody

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:

Material Codes: AG=Amber Glass, CG=Clear Glass; PE=Polyethylene; PP=Polypropylene; S=Silicone; T=Teflon; O=OtherSpecial Instructions/Note:

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)	2320B - Total Alkalinity (250mL-PE)	Total Number of containers
			Preservation Code:		N		N	
MW-01A	6-15	1359	G	W	N		1	
MW-07A	6-15	1321	G	W	N		1	
MW-05A	6-15	1233	G	W	N		1	
MW-04A	6-15	1157	G	W	N		1	
MW-03A	6-15	1123	G	W	N		1	

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: 6-15-16 / 1630	Company: Pro-Tech	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/30/2016

Client Information	Sampler: DAN ARMOUR	Lab PM: Harrington Danielle M	Carrier Tracking No(s):	COC No.: 280-47705-17862.1
Client Contact: Mr. Jim Christiansen	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:	Analysis Requested
City: Apopka	TAT Requested (days):	
State, Zip: FL, 32703		
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested	
Email: jchristi@wm.com	WO #:	
Project Name: FL26|Vista Event Desc: Semiannual GW Parameters June Dec	Project #: 28002729	
Site: Florida	SSOW#:	

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		
MW-01A	6-15	1359	G	Water	N		3	1	1	1	3		Note: Short holding times include Method 300.0 NO3
MW-07A	6-15	1321	G	Water	N		3	1	1	1	3		
MW-05A	6-15	1233	G	Water	N		3	1	1	1	3		
MW-04A	6-15	1157	G	Water	N		3	1	1	1	3		
MW-03A	6-15	1125	G	Water	N		3	1	1	1	3		
TRIP	6-15	-	G	Water	N		✓						
				Water									
				Water									
				Water									
				Water									

280-84545 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: 6-15-16 1630	Company: PRO-TECH	Received by:	Date/Time: 6-16-16 0950	Company: TAD
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.5, 1.4 IRS (-0.0 transferred SPW 6-16-16

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-01A | SAMPLE ID: | DATE: 6-15-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: [illegible] feet to [illegible] feet | STATIC DEPTH TO WATER (feet): 45.59 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.47 | GROUNDWATER ELEVATION (ft NGVD): 63.88

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: 1338 | PURGING ENDED AT: 1359 | TOTAL VOLUME PURGED (gallons): 5.4

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
1349	2.86	2.86	0.26	47.02	7.04	27.7	463	0.7	2.60	31		
1352	0.78	3.64	0.26	47.04	7.07	27.5	461	0.7	2.40	30		
1355	0.78	4.42	0.26	47.04	7.07	27.5	463	0.7	2.86	32		
1358	0.78	5.20	0.26	47.04	7.07	27.6	463	0.7	3.05	33	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" = 0.0025; 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: 1359 | 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 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	0.26	BP
	3	G	40ml	NaHSO4	–		EDB | DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	~~1000ml~~ 250ml	~~HNO3~~	–		~~GROSS ALPHA~~ ALK		

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: 6-15-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 61.03 feet to 71.03 feet | STATIC DEPTH TO WATER (feet): 44.18 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.26 | GROUNDWATER ELEVATION (ft NGVD): 65.08

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (71.03 feet – 44.18 feet) X 0.163 gallons/foot = 4.38 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 71.03 feet) + 0.05 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | PURGING INITIATED AT: 1251 | PURGING ENDED AT: 1321 | TOTAL VOLUME PURGED (gallons): 6.60

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
1311	4.40	4.40	0.22	45.99	6.49	26.5	349	1.5	3.83	57		
1314	0.66	5.06	0.22	46.00	6.50	26.5	349	1.5	2.20	57		
1317	0.66	5.72	0.22	46.01	6.51	26.6	350	1.5	2.05	58		
1320	0.66	6.38	0.22	46.01	6.51	26.5	350	1.5	1.93	58	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 / PAC-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1321 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | 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			
	3	G	40ml	HCl	–	NM	VOA	0.22	BP
	3	G	40ml	NaThio	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	~~250ml~~ 1000ml	~~HNO3~~	–		~~CARB ALK~~ ALK		

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-05A | SAMPLE ID: | DATE: 6-15-16

PURGING DATA 30.17

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): ~~31.70~~ 30.17 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 81.86 | GROUNDWATER ELEVATION (ft NGVD): 51.69

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (43.08 feet - 30.17 feet) X 0.163 gallons/foot = 2.10 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: 1209 | PURGING ENDED AT: 1233 | TOTAL VOLUME PURGED (gallons): 3.84

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
1229	0.24	2.24	0.16	33.13	4.60	28.9	66	3.6	2.56	169		
1226	0.48	2.72	0.16	33.14	4.60	28.9	67	3.6	2.61	168		
1229	0.48	3.20	0.16	33.14	4.60	28.9	67	3.6	2.94	168		
1232	0.48	3.68	0.16	33.14	4.58	28.9	67	3.6	2.33	167	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 / PAS-Tech | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1233 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 38.08 | 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					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	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	0.16	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	~~250~~ 1000ml	~~HNO3~~	-		~~Cr6 Alka~~ ALK		

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-04A | SAMPLE ID: | DATE: 6-15-16

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 36.65 feet to 46.65 feet | STATIC DEPTH TO WATER (feet): 31.60 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 82.04 | GROUNDWATER ELEVATION (ft NGVD): 50.44

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (46.65 feet - 31.60 feet) X 0.163 gallons/foot = 2.45 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 46.65 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: 1132 | PURGING ENDED AT: 1157 | TOTAL VOLUME PURGED (gallons): 4.25

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1147	2.55	2.55	0.17	34.29	4.76	28.6	90	5.6	2.48	263		
1150	0.51	3.06	0.17	34.35	4.75	28.5	90	5.5	4.20	265		
1153	0.51	3.57	0.17	34.35	4.72	28.6	91	5.6	2.13	266		
1156	0.51	4.08	0.17	34.26	4.91	28.6	91	5.5	2.63	266	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./FT.): 1/8" = 0.0005; 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: 1157 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | 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	0.17	BP
	3	G	40ml	NaHSO4	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	~~250ml~~	~~HNO3~~	-		~~CHEM ALKA~~ ALK		

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-03A | SAMPLE ID: | DATE: 6-15-16

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): 42.17 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 92.87 | GROUNDWATER ELEVATION (ft NGVD): 50.70

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: 1103 | PURGING ENDED AT: 1123 | TOTAL VOLUME PURGED (gallons): 2.80

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
1113	1.40	1.40	0.14	42.55	5.49	23.8	107	1.9	3.54	198		
1116	0.42	1.82	0.14	42.55	5.49	23.8	109	1.8	3.34	200		
1119	0.42	2.24	0.14	42.55	5.49	23.8	109	1.8	3.93	201		
1123	0.42	2.66	0.14	42.56	5.49	23.9	110	1.8	3.84	200	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: 1123 | 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 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	0.14	BP
	3	G	40ml	NaHSO4	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	~~1000ml~~ 250ml	HNO3	-		~~ALKA~~ ALK		

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

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

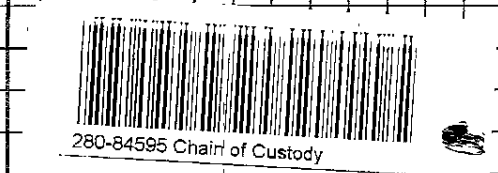
6/30/2016

Client Information	Sampler: DAN ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-47705-17862.1
Client Contact: Mr. Jim Christiansen	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:	Analysis Requested
City: Apopka	TAT Requested (days):	
State, Zip: FL, 32703		
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested	
Email: jchristi@wm.com	WO #:	
Project Name: FL26|Vista Event Desc: Semiannual GW Parameters June Dec	Project #: 28002729	
Site: Florida	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	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	S		
EQUIPMENT BLANK	6-16	0915	G	Water	N			1	1	1			Note: Short holding times include Method 300.0 NO3
MW-6AR	6-16	0857	G	Water	N		3	1	1	1	3		
MW-2AR	6-16	0819	G	Water	N		3	1	1	1	3		
MW-8R	6-16	0712	G	Water	N		3	1	1	1	3		
TRIP	6-16	—	G	Water	N		✓						
				Water									
				Water									
				Water									
				Water									
				Water									



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
1		6-16-16 / 1200	PRO-TECH		06/17/16 0000	TAD
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: 2.3+0.0 IR#5 transfered by JT

Page 86 of 96

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: EQUIPMENT BLANK	SAMPLE ID:		DATE: 6-16-16

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
0915	NA	NA	NA	NA	6.32	23.9	4	1.0	0.00	43	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:

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			
	1	P	1000ml	–	–	NM	6-CHEM	NA	NA
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	1000ml	HNO3	–		GROSS ALPHA		

REMARKS:
Sheen Present YES (NO) EB - COMPLETED WITH D.I. H2O 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-6AR	SAMPLE ID:		DATE: 6-16-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 72.35 feet to 72.35 feet	STATIC DEPTH TO WATER (feet): 53.06		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 104.11			GROUNDWATER ELEVATION (ft NGVD): 51.05		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (72.35 feet – 53.06 feet) X 0.163 gallons/foot = 3.14 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: 0830	PURGING ENDED AT: 0857		TOTAL VOLUME PURGED (gallons): 5.13

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
0847	3.23	3.23	0.19	55.26	4.92	29.2	237	2.7	2.45	202		
0850	0.57	3.80	0.19	55.27	4.94	27.0	239	2.8	3.57	204		
0853	0.57	4.37	0.19	55.27	4.92	26.9	238	2.8	2.85	203		
0856	0.57	4.94	0.19	55.28	4.90	27.0	240	2.8	3.98	204	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: 0857		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 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	500 ml	HNO3	–	–	METALS	0.19	BP
	1	AG	500 ml	H2SO4	–	–	NH3		BP
	3	CG	40 ml	HCl	–	–	8260B		BP
	1	PE	1 L	–	–	–	G-CHEM		BP
	3	CG	40 ml	Na2S2O3	–	–	8011		BP
	1	PE	250 ml	–	–	–	ALK		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-208	SAMPLE ID:		DATE: 6-16-16

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 31.06 feet to 41.06 feet	STATIC DEPTH TO WATER (feet): 35.42		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 87.22			GROUNDWATER ELEVATION (ft NGVD): 51.80		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (41.06 feet − 35.42 feet) X 0.163 gallons/foot = 0.92 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: 0759	PURGING ENDED AT: 0819		TOTAL VOLUME PURGED (gallons): 2.60

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
0809	1.30	1.30	0.13	(S)NA	4.59	27.5	30	2.3	3.82	274		
0813	0.39	1.69	0.13	|	4.58	27.5	27	6.3	3.75	394		
0815	0.39	2.08	0.13	|	4.57	27.5	26	6.2	3.93	275		
0818	0.39	2.47	0.13	|	4.53	27.5	26	6.2	4.03	275	NONE	
		(S)NA -	WATER	LEVEL	IS	BELOW	THE	TOP	OF	THE	DEDICATED	PUMP

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: 0819		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 36.06	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	500 ml	HNO3	–	–	METALS	0.13	BP
	1	AG	500 ml	H2SO4	–	–	NH3	|	BP
	3	CG	40 ml	HCl	–	–	8260B	|	BP
	1	PE	1 L	–	–	–	4-CHEM	|	BP
	3	CG	40 ml	NaThio	–	–	8011	|	BP
	1	PE	250 ml	–	–	–	ALK	|	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-8R	SAMPLE ID:		DATE: 6-16-16

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): 46.73	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 99.60			GROUNDWATER ELEVATION (ft NGVD): 52.87	

WELL VOLUME PURGED: 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 PURGED: 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: 0721	PURGING ENDED AT: 0942		TOTAL VOLUME PURGED (gallons): 3.53

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	1.87	1.87	0.17	47.38	6.92	25.0	196	1.8	3.77	104		
0735	0.51	2.38	0.17	47.38	6.95	25.6	197	1.7	3.40	102		
0738	0.51	2.89	0.17	47.39	6.96	25.0	198	1.7	3.16	102		
0941	0.51	3.40	0.17	47.39	6.97	25.1	198	1.7	2.85	101	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: 0742		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			
	1	PE	500 ml	HNO3	–	–	METALS	0.17	BP
	1	AG	500 ml	H2SO4	–	–	NH3		BP
	3	CG	40 ml	HCl	–	–	8260B		BP
	1	PE	1 L	–	–	–	4-CHEM		BP
	3	CG	40 ml	NaThio	–	–	BOD		BP
	1	PE	250 ml	–	–	–	ALK		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

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Harrington, Danielle M	Carrier Tracking No(s):	COC No: 280-42730-16536.1
Client Contact: Mr. Jim Christiansen	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:	Analysis Requested
City: Apopka	TAT Requested (days):	
State, Zip: FL, 32703		
Phone: 321-704-4162(Tel) 321-984-8170(Fax)	PO #: Purchase Order Requested	
Email: jchristi@wm.com	WO #:	
Project Name: Annual Alkalinity June	Project #: 28002729	
Site: FL26|Visa Florida	SSOW#:	

280-84596 Chain of Custody

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)	2320B - Total Alkalinity (250mL-PE)	Total Number of containers	Material Codes: AG=mger Glass, CG=Clear Glass; PE=Polyethylene; PP=Polypropylene; S=Silicone; T=Teflon; O=OtherSpecial instructions/Note:
			Preservation Code:		N				
EQUIPMENT BLANK	6-16	0915	G	W	N		1		
MW-6AR	6-16	0857	G	W	N		1		
MW-2AR	6-16	0819	G	W	N		1		
MW-8R	6-16	0742	G	W	N		1		

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
	6-16-16 / 1200	PRO-TECH		6/17/16 1000	TAD
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: 2.3+0.0 IR#5 Transfered by DA 6/17/16

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-84541-1

Login Number: 84541

List Source: TestAmerica Denver

List Number: 1

Creator: Woodworth, Sean P

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	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	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: 280-84541-1

Login Number: 84545
List Number: 1
Creator: Woodworth, Sean P

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-84541-1

Login Number: 84545
List Number: 2
Creator: Woodworth, Sean P

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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: 280-84541-1

Login Number: 84595
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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: 280-84541-1

Login Number: 84596
List Number: 1
Creator: White, Denise E

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 693-3177
Houston (298) 441-7606
Pittsburgh (412) 746-8823

FACILITY NAME: VISTA

PTH TO WATER
EASUREMENTS

DATE: 6-15-16

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-01A	45.59
MW-01B	55.84
MW-02AR	35.40
MW-02B	38.26
MW-03A	42.17
MW-03B	42.34
MW-04A	31.60
MW-04B	32.81
MW-05A	30.17
MW-05B	31.50
MW-06AR	53.03
MW-06BR	52.96
MW-07A	44.18
MW-07B	56.97
MW-08R	46.71
MW-FL01	42.43
MW-FL02	34.58

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-FL03	47.36
MW-01	25.82

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DAN ARMOUR

Date: 6-15-16 Page 1 of 2

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-1A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-2AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-3A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-4A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-5A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-6AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-7A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-8R	☒ OK ☐ Damaged	☐ OK ☒ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	NON DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	SLIGHT BEND IN CASING ABOUT 10-15' BGS
MW-1B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☐ Clear ☐ NA Turbid	☐ NA OK ☐ Inadequate	NOT SAMPLED
MW-2B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ NA Clear ☐ Turbid	☐ NA OK ☐ Inadequate	NOT SAMPLED

* 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: DAN AMOUR

Date: 6-15-16 Page 2 of 2

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-3B	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	BROKEN HINGE NOT SAMPLED
MW-4B	☐ OK ☒ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	BROKEN HINGE NOT SAMPLED
MW-5B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	NOT SAMPLED
MW-6BR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	NOT SAMPLED
MW-7B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	NOT SAMPLED
MW-FL01	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☐ Clear ☐ NA Turbid	☐ OK ☐ NA Inadequate	NOT SAMPLED
MW-FL02	☒ 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
	☐ 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.

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 20071032 9

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# 50191 EXP: JAN 2017

Standard B 10.0 NTU HF SCIENTIFIC: LOT# 50191 EXP: JAN 2017

Standard C 0.02 NTU HF SCIENTIFIC: LOT# 50191 EXP: JAN 2019

DATE (y/m/d)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV.	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
16/06/13	0800	A	1000	AUTO CAL	-	YES	INIT	DSA
"	"	B	10.0	"	-	YES	INIT	DSA
"	"	C	0.02	"	-	YES	INIT	DSA
16/06/14	0700	A	1000	AUTO CAL	-	YES	CONT	DSA
"	"	B	10.0	"	-	YES	CONT	DSA
"	"	C	0.02	"	-	YES	CONT	DSA
16/06/15	0700	A	1000	AUTO CAL	-	YES	CONT	DSA
"	"	B	10.0	"	-	YES	CONT	DSA
"	"	C	0.02	"	-	YES	CONT	DSA
16/06/16	0630	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]*

Standard A 1000 uS/cm ENVIRODEPOT LOT# 15A100523 EXP: JULY 2016

Standard B _____

Standard C _____

DATE (y/m/m/d)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES / NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
16/06/13	0800	A	1000	AUTO CAL	-	YES	INIT	DSA
16/06/14	0700	A	1000	AUTO CAL	-	YES	CONT	DSA
16/06/15	0700	A	1000	AUTO CAL	-	YES	CONT	DSA
16/06/16	0630	A	1000	AUTO CAL	-	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 7.00 (std) ENVIRODEPOT LOT# 14L1S EXP: NOV 6, 2016

Standard B 4.00 (std) ENVIRODEPOT LOT# 14M1R EXP: DEC 3, 2016

Standard C 10.00 (std) ENVIRODEPOT LOT# 14L1T EXP: NOV. 12, 2016

DATE (y/m/d)	TIME (h:mm)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
16/06/13	0800	A	7.00	AUTO CAL	-	YES	INIT	DKA
"	"	B	4.00	"	-	YES	INIT	DKA
"	"	C	10.00	"	-	YES	INIT	DKA
16/06/14	0700	A	7.00	AUTO CAL	-	YES	CONT	DKA
"	"	B	4.00	"	-	YES	CONT	DKA
"	"	C	10.00	"	-	YES	CONT	DKA
16/06/15	0700	A	7.00	AUTO CAL	-	YES	CONT	DKA
"	"	B	4.00	"	-	YES	CONT	DKA
"	"	C	10.00	"	-	YES	CONT	DKA
16/06/16	0630	A	7.00	AUTO CAL	-	YES	CONT	DKA
"	"	B	4.00	"	-	YES	CONT	DKA
"	"	C	10.00	"	-	YES	CONT	DKA

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
16/06/13	0800	A	100% SAT	100%	-	YES	INIT	DA
16/06/14	0700	A	100% SAT	100%	-	YES	CONT	DA
16/06/15	0600	A	100% SAT	100%	-	YES	CONT	DA
16/06/16	0630	A	100% SAT	100%	-	YES	CONT	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

APPENDIX B

COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE