Water Quality Monitoring Report
Second 2020 Semi-Annual Event

Vista Landfill Class III

Vista Landfill, LLC

February 24, 2021

PREPARED FOR:

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

PREPARED BY:

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

STATEMENT OF GEOLOGIC REVIEW

In general accordance with Chapter 62-701, Florida Administrative Code (F.A.C.), Solid Waste Management Facilities, this Groundwater Monitoring Report – Second 2020 Semi-Annual Monitoring Event for the Vista Landfill Site, located in Apopka, Florida, has been reviewed, signed and sealed by a registered Professional Geologist in the State of Florida, and is consistent with standard principles related to groundwater monitoring

2/24/2021

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

CEC

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Florida Department of Environmental Protection

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

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

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

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

Address 242 West Keene Road

City Apopka Zip 32703 County Orange

Telephone Number (407)286-2920

(2) WACS Facility ID 87801

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

(4) Authorized Representative's Name Sheree Grant Title Environmental Protection

Address 4978 LB McLeod Road

City Orlando Zip 32811 County Orange

Telephone Number (407))902-1469

Email address (if available) sgrant@wm.com

CERTIFICATION

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

2/19/21
(Date)

Sheree Grant
(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 E87487

Lab Name Pace Analytical National (Pace)

Address 12065 Lebanon Road, Mount Juliet, TN 37122

Phone Number (615) 758-5858

Email address (if available) skennedy@pacenational.com

1 INTRODUCTION

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

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

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

The second semi-annual 2020 sampling data was obtained during the routine semi-annual monitoring event conducted December 2, 3, and 4, 2020 (Appendix A). An electronic data deliverable (EDD) of the results in "ADaPT format" is attached as Appendix B. This EDD has been verified as uploadable into the latest version of ADaPT.

2 BACKGROUND

2.1 Site Location and Description

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

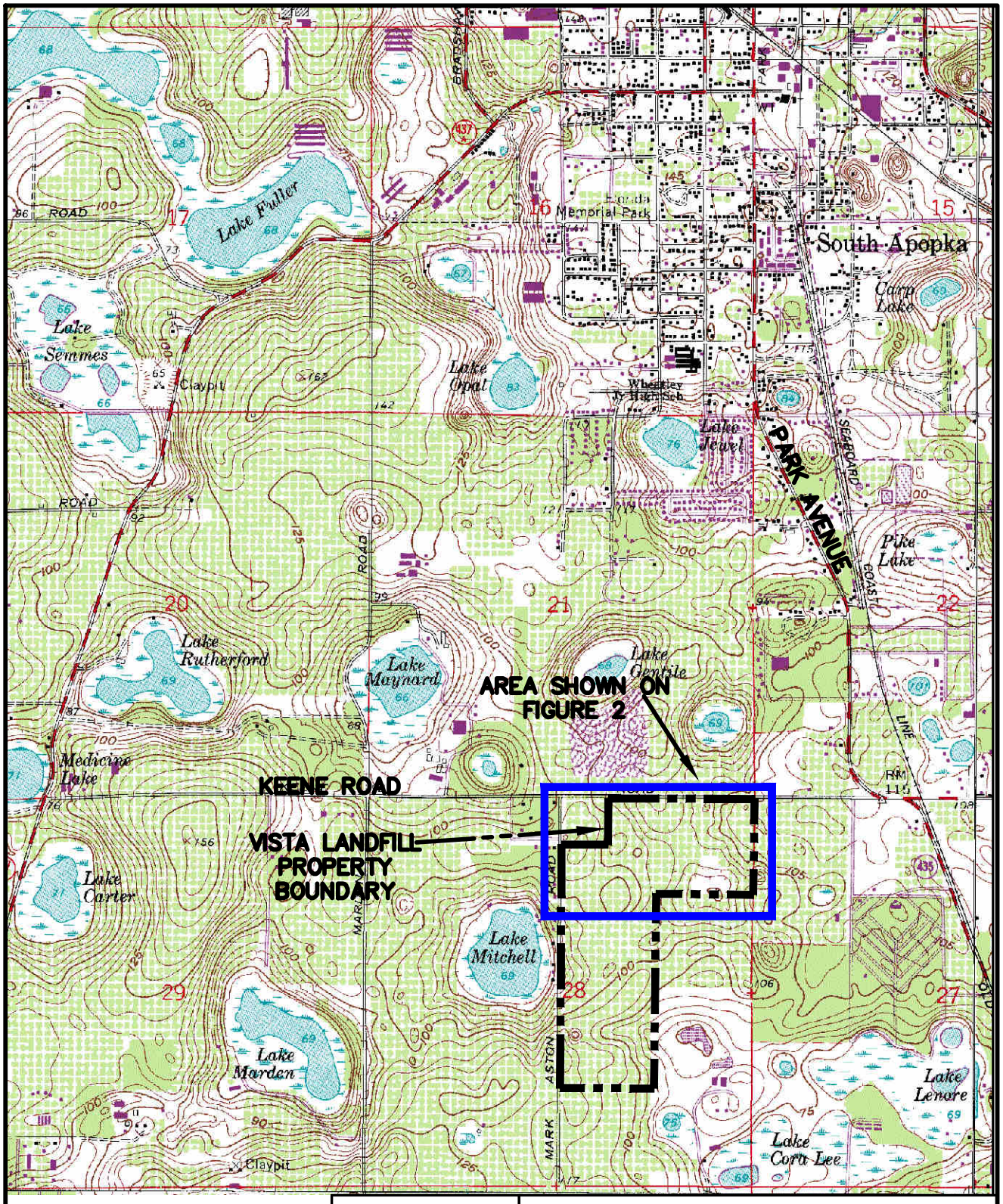

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FIGURE 1:
SITE LOCATION MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

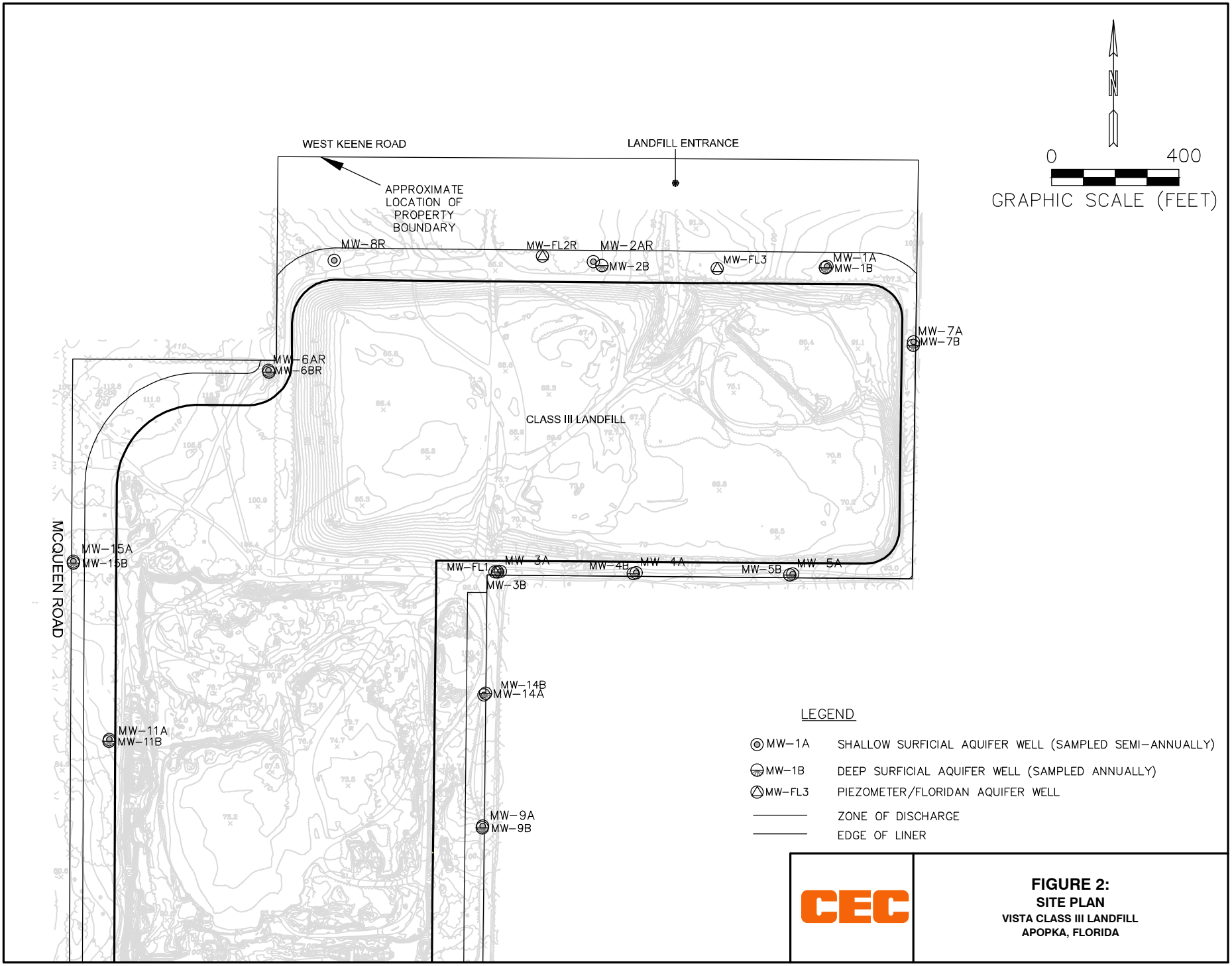


FIGURE 2:
SITE PLAN
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

3 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

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

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

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

For this semi-annual report, CEC performed the groundwater flow assessment of the surficial aquifer using groundwater depth to water measurements obtained on December 2, 2020. The assessment included the compilation of groundwater depth measurements, the calculation of groundwater elevations, and plotting the data onto site figures depicting the estimated groundwater flow direction. Table 1 lists the monitoring locations, depths to water, and groundwater elevations. Water level maps generated for the shallow surficial aquifer and lower surficial aquifer are presented in Figures 3 and 4. These maps are generated using Surfer® Version 16, groundwater contouring computer program, with the interpretation verified by an CEC hydrogeologist.

3.1 Shallow Surficial Aquifer (Upper Zone)

The shallow surficial aquifer is defined here as the uppermost water-bearing zone of the undifferentiated sands and clayey sands that are part of the Hawthorn Group. A water level map of the shallow surficial aquifer was prepared from shallow surficial well data for the December 2020 sampling event and is provided on Figure 3.

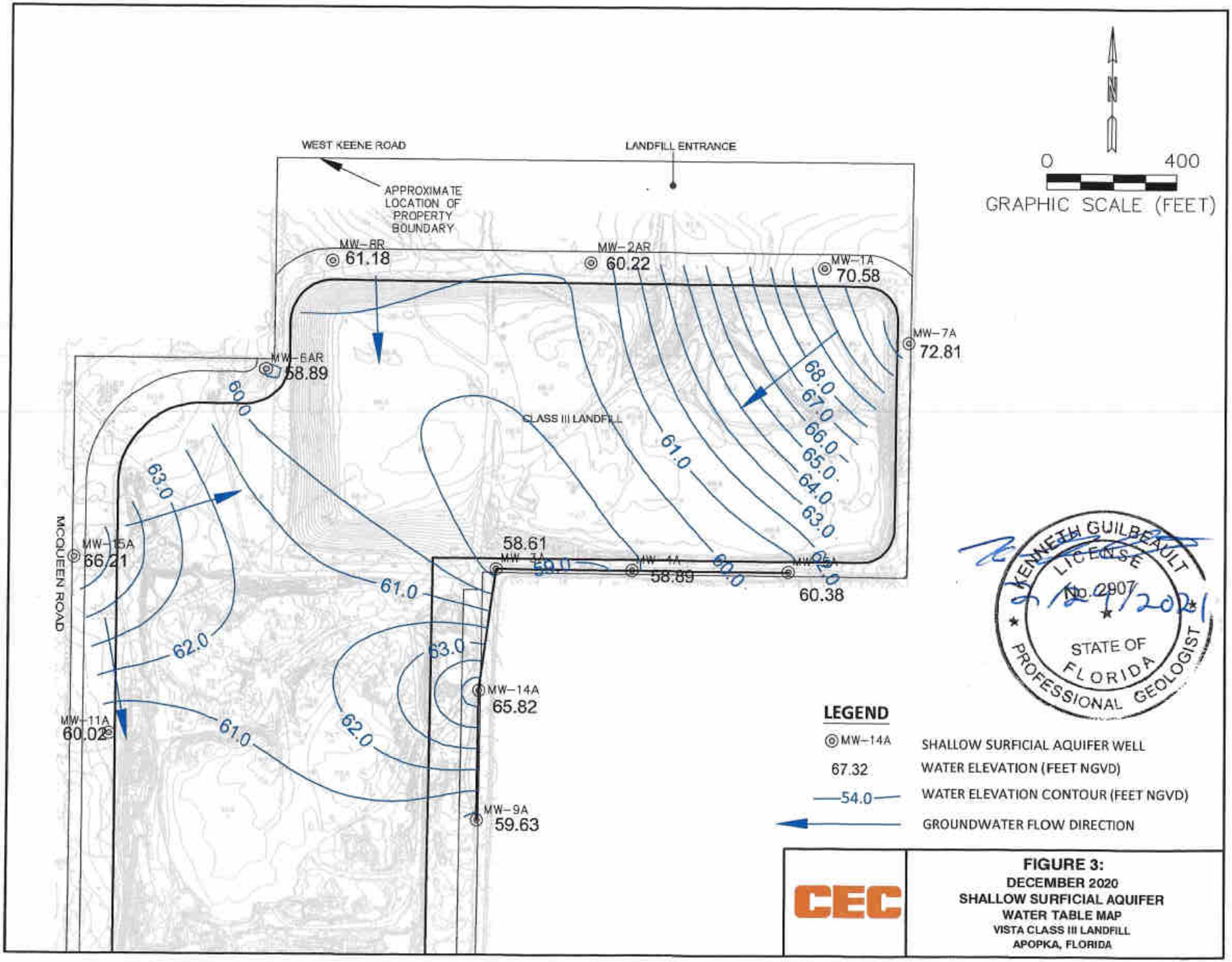
Groundwater flow typically is expected to be perpendicular to the water level contours. Therefore, the approximate direction of groundwater flow in the shallow surficial aquifer is primarily to the southwest. A portion of the groundwater enters from the northwest section of the site and flows south.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

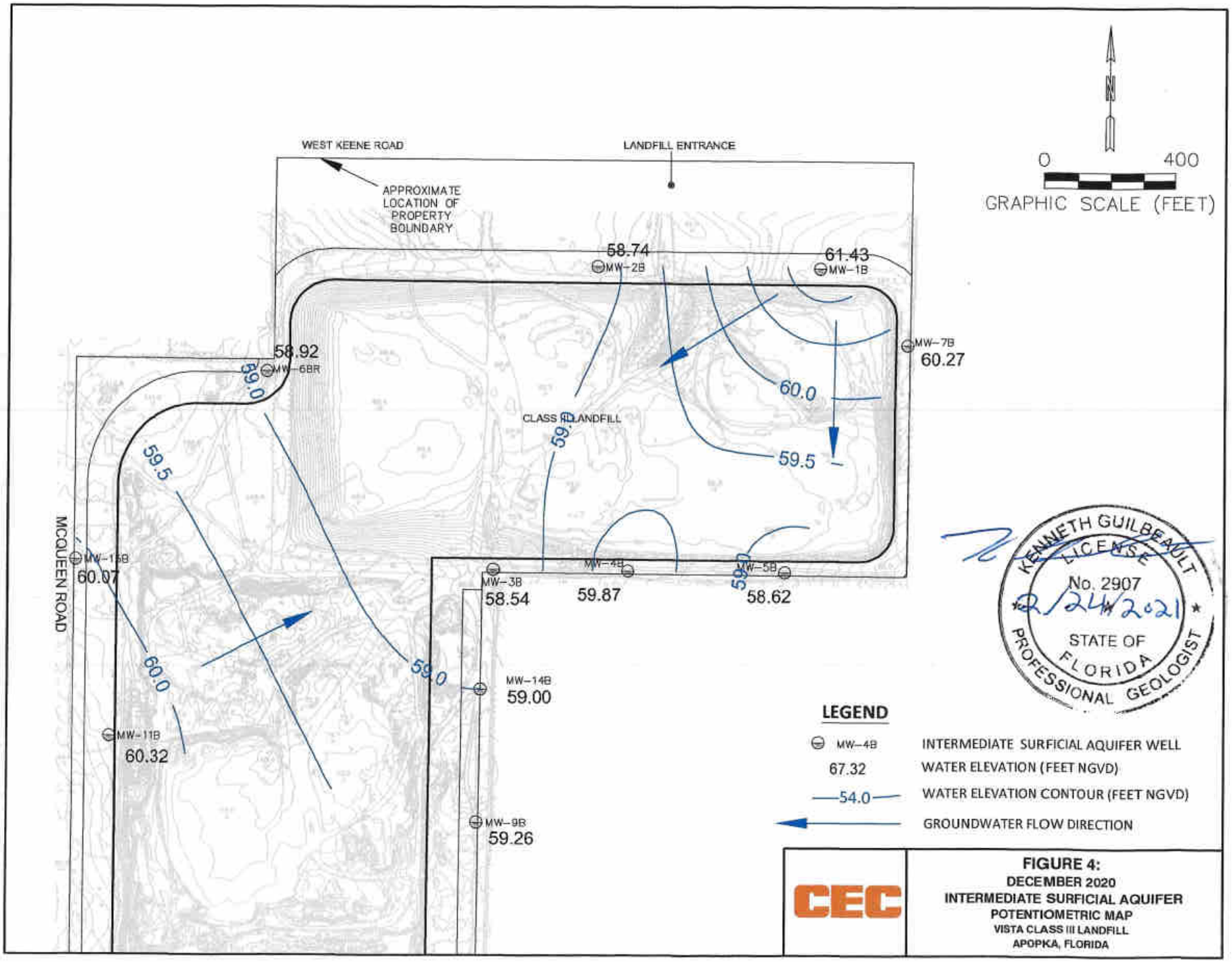
[1] The Rust Environment and Infrastructure (RUST) August 1996 (Revised September 1998) report entitled "Keene Road Hydrogeologic Evaluation" Prepared for Waste Management Inc.

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

Well No.	TOC Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	December 1, 2020 Groundwater Elevation (Feet NGVD)
MW-1A	109.47	38.89	70.58
MW-1B	109.53	48.10	61.43
MW-2AR	87.22	27.00	60.22
MW-2B	88.46	29.72	58.74
MW-3A	92.87	34.26	58.61
MW-3B	93.06	34.52	58.54
MW-4A	82.04	23.15	58.89
MW-4B	83.18	23.31	59.87
MW-5A	81.86	21.48	60.38
MW-5B	81.27	22.65	58.62
MW-6AR	104.11	45.22	58.89
MW-6BR	103.99	45.07	58.92
MW-7A	109.26	36.45	72.81
MW-7B	109.13	48.86	60.27
MW-8R	99.60	38.20	61.40
MW-9A	99.45	39.82	59.63
MW-9B	99.52	40.26	59.26
MW-11A	96.35	36.33	60.02
MW-11B	96.37	36.05	60.32
MW-14A	100.62	34.80	65.82
MW-14B	100.10	41.10	59.00
MW-15A	105.27	39.06	66.21
MW-15B	105.15	45.08	60.07
MW-FL1	93.16	34.56	58.60
MW-FL2R	86.76	25.29	61.47
MW-FL3	97.49	39.24	58.25

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


WEST KEENE ROAD
LANDFILL ENTRANCE
APPROXIMATE LOCATION OF PROPERTY BOUNDARY
MW-8R 61.18
MW-2AR 60.22
MW-1A 70.58
MW-7A 72.81
MW-6AR 58.89
CLASS III LANDFILL
MW-5A 60.38
MW-7A 58.61
MW-4A 58.89
MW-15A 66.21
MW-14A 65.82
MW-11A 60.02
MW-9A 59.63
MCQUEEN ROAD
60.0
61.0
62.0
63.0
64.0
65.0
66.0
67.0
68.0
0
400
GRAPHIC SCALE (FEET)
N
LEGEND
MW-14A SHALLOW SURFICIAL AQUIFER WELL
67.32 WATER ELEVATION (FEET NGVD)
54.0 WATER ELEVATION CONTOUR (FEET NGVD)
GROUNDWATER FLOW DIRECTION
KENNETH GUILBEAULT
LICENSE
No. 2907
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST
12/1/2021
CEC
FIGURE 3:
DECEMBER 2020
SHALLOW SURFICIAL AQUIFER
WATER TABLE MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA


WEST KEENE ROAD
LANDFILL ENTRANCE
APPROXIMATE LOCATION OF PROPERTY BOUNDARY
MCQUEEN ROAD
CLASS I LANDFILL
58.74
MW-2B
61.43
MW-1B
58.92
MW-6BR
MW-7B
60.27
MW-15B
60.07
MW-3B
58.54
MW-4B
59.87
MW-5B
58.62
MW-14B
59.00
MW-11B
60.32
MW-9B
59.26
59.0
59.5
60.0
59.5
59.0
59.0
0
400
GRAPHIC SCALE (FEET)
KENNETH GUILBEAULT
LICENSE
No. 2907
2/24/2021
STATE OF FLORIDA
PROFESSIONAL GEOLOGIST
LEGEND
MW-4B
INTERMEDIATE SURFICIAL AQUIFER WELL
67.32
WATER ELEVATION (FEET NGVD)
54.0
WATER ELEVATION CONTOUR (FEET NGVD)
GROUNDWATER FLOW DIRECTION
CEC
FIGURE 4:
DECEMBER 2020
INTERMEDIATE SURFICIAL AQUIFER
POTENTIOMETRIC MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

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

3.2 Intermediate Surficial Aquifer (Lower Zone)

A potentiometric map of the intermediate surficial aquifer was prepared from intermediate surficial well data for the December 2020 sampling event (Figure 4). Groundwater flow within the intermediate surficial aquifer beneath the Site apparently consists of multiple flow regimes, as indicated by the groundwater flow direction arrows on Figure 4. Groundwater entering from the site's western boundary flows east and northeast towards a slight low on the site's northern boundary. A portion of the groundwater enters near the northeast corner of the site and moves to the south and southwest. This groundwater flow configuration is a combination of interchange of groundwater with the overlying shallow surficial aquifer and lateral inflow to the intermediate surficial aquifer from outside the Site. These flow directions are consistent with previous flow assessments at the Site.

3.3 Floridan Aquifer (Deep Zone)

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

4 MONITORING PROGRAM

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

4.1 Groundwater Monitoring Program

The surficial aquifer groundwater currently is monitored at the site at 23 locations. The surficial aquifer is monitored in two zones: the shallow zone ("A" wells) and the lower zone ("B" wells). The shallow zone is monitored semi-annually and the lower zone is sampled annually, during the December sampling event. The lower zone wells were sampled during the December 2020 sampling event (this monitoring event). The deep zone wells are used as piezometers with no routine sampling unless there are verified landfill impacts in the lower zone water unit.

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

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

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

Note:

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

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

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

Notes:

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

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

Field Parameters

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

Shallow Zone Laboratory Parameters

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

Lower Zone Laboratory Parameters

- Total ammonia-nitrogen
- Chloride
- Sodium
- Nitrate

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

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

4.2 Sample Collection Analysis

Groundwater sampling was conducted in accordance with F.A.C. Chapter 62-160 and FDEP's Standard Operating Procedures for Field Activities (DEP-SOP-001/01). ProTech field personnel collected groundwater samples for laboratory analysis from all monitoring wells listed in Section 4.1 between December 2, 3, and 4, 2020.

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

5 WATER QUALITY MONITORING RESULTS

This section summarizes the results of the groundwater quality sampling for the second semi-annual sampling event performed December 2, 3, and 4, 2020.

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

ProTech field personnel collected one equipment blank during the December 2020 sampling event and submitted the samples with trip blanks in coolers containing volatile organic compound (VOC) samples to Pace for analysis. The samples were received in good condition, properly preserved, and at proper temperatures. The laboratory provided additional QA/QC including analysis of method blanks, surrogates, laboratory control samples/laboratory control sample duplicates (LCS/LCSD), and matrix spike/matrix spike duplicates (MS/MSD). The QA/QC results for the laboratory reports associated with groundwater monitoring points from Pace Reports L1291962 are summarized below:

- Low levels of TDS were present in the method blank associated with QC batch WG1589693. Because the concentrations in the method blanks are not present at levels greater than the reporting limit, corrective action is deemed unnecessary.
- Low levels of chloride are present in the method blank associated with QC batch WG1587093. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.
- The ammonia as N MSD recovery was marginally above control limits at 111% (limits 90-110). Recoveries in the LCS/LCSD, and MS were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
- The chloride MSD recovery was marginally above control limits at 111% (limits 90-110). Recoveries in the LCS/LCSD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
- The chloride MS recovery was below control limits at 0% (limits 80-120). Recoveries in the LCS/LCSD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
- Low levels of sodium and zinc were present in the method blank associated with QC batch WG1591856 and WG1593014. Because the concentrations in the method blanks are not present at levels greater than the reporting limit, corrective action is deemed unnecessary.
- The cis-1,3-dichloropropene and trans-1,4-dichloro-2-butene recoveries were marginally below control limits at 79.2% (limits 80-123) and 25.2% (limits 33-144), respectively. Recoveries in the MS and MSD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
- The trans-1,4-dichloro-2-butene recoveries was marginally below control limits at 26.4% (limits 33-144). Recoveries in the MS and MSD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.
- Due to high analyte concentration, several samples were analyzed at a dilution for various analyses. The reporting limits have been adjusted relative to the dilution required.
- Other QA/QC issues were not identified; therefore, the remaining results from the December 2020 event are considered acceptable without qualification.

5.2 Groundwater Quality

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

5.2.1 Metals Exceedances

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

- Iron
- Mercury

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

5.2.1.1 Iron

The concentration of iron in the groundwater ranged from non-detect to 6,910 micrograms per liter (μg/L) during the December 2020 sampling event. The FDEP SDWS of 300 μg/L for iron was exceeded at MW-7A (6,910 μg/L) and MW-11A (369 μg/L). The iron concentrations are not due to landfill operations. Iron at MW-7A will continue to be closely monitored in subsequent sampling events.

5.2.1.2 Mercury

During the December 2020 sampling event, mercury exceeded its PDWS of 2 μg/L in background monitoring well MW-6AR (3.94 μg/L). Mercury has been detected in MW-6AR since December 2015.

A previous assessment was conducted during the December 2017 monitoring event to evaluate the source of the mercury detection during that time period. A dissolved methane sample was collected during the December 2017 monitoring event in order to assess if landfill gas was causing the mercury detection. Dissolved methane was not detected in a sample collected during the December 2017 monitoring event. This indicated that the source was not related to landfill gas and since this well was up-gradient from the landfill, the source appeared to be from off-site (possibly the Rapid Infiltration Basins (RIBs) facilities). Mercury analysis will continue to be performed during the next monitoring event.

Table 4. Summary of Groundwater Quality Analytical Results (Detected Parameters Only)
Vista Landfill, December 2020

Parameter	Units	MCL	Standard	MW-1A	MW-1B	MW-2AR	MW-2B	MW-3A	MW-3B	MW-4A	MW-4B	MW-5A	MW-5B	MW-6AR	MW-6BR	MW-7A	MW-7B	MW-8R	MW-9A	MW-9B	MW-11A	MW-11B	MW-14A	MW-14B	MW-15A	MW-15B
Well Type				**BG**	**BG**	**BG**	**BG**	**CO**	**CO**	**CO**	**CO**	**CO**	**CO**	**BG**	**BG**	**BG**	**CO**	**BG**	**CO**	**CO**	**DE**	**DE**	**CO**	**CO**	**CO**	**CO**
Volatile Organic Compounds																										
Acetone	ug/l	NS	NS	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---	1.53 **I**	---	1.05 **U**	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---	1.05 **U**	---
Chloroform	ug/l	NS	NS	0.302 **I**	---	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.181 **I**	---	0.086 **U**	---	0.086 **U**	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---
Metals																										
Antimony	ug/l	6	PDWS	0.843 **I**	---	0.754 **U**	---	0.754 **U**	---	0.754 **U**	---	0.754 **U**	---	0.754 **U**	---	0.754 **U**	---	0.754 **U**	0.754 **U**	---	0.754 **U**	---	0.902 **I**	---	0.754 **U**	---
Arsenic	ug/l	10	PDWS	0.25 **U**	---	0.25 **U**	---	0.25 **U**	---	0.25 **U**	---	0.25 **U**	---	0.25 **U**	---	5.82	---	1.26 **I**	0.25 **U**	---	1.43 **I**	---	0.279 **I**	---	0.25 **U**	---
Barium	ug/l	2000	PDWS	32.1	---	11.6	---	28.1	---	13.5	---	14.5	---	35.9	---	25.7	---	26.8	5.68	---	21.2	---	10.2	---	5.87	---
Beryllium	ug/l	4	PDWS	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.127 **I**	---	0.12 **U**	---	0.12 **U**	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---
Cadmium	ug/l	5	PDWS	0.7 **U**	---	0.7 **U**	---	0.7 **U**	---	0.7 **U**	---	0.7 **U**	---	1.08 **I**	---	0.7 **U**	---	0.7 **U**	0.7 **U**	---	0.961 **I**	---	0.7 **U**	---	0.7 **U**	---
Chromium	ug/l	100	PDWS	1.4 **U**	---	1.4 **U**	---	1.4 **U**	---	1.4 **U**	---	1.4 **U**	---	1.4 **U**	---	2.52 **I**	---	1.4 **U**	2.15 **I**	---	3.76 **I**	---	1.87 **I**	---	1.4 **U**	---
Iron	ug/l	300	SDWS	58.7 **I**	---	16 **I**	---	58.3 **I**	---	21.3 **I**	---	214	---	14.1 **U**	---	6910	---	14.1 **U**	33 **I**	---	369	---	170	---	37.8 **I**	---
Lead	ug/l	15	PDWS	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---	1.91 **I**	---	1.9 **U**	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---	1.9 **U**	---
Mercury	ug/l	2	PDWS	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	3.94	---	0.049 **U**	---	0.049 **U**	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.0646 **I**	---
Sodium	mg/l	160	PDWS	8.61	5.3	1.5	4.56	2.95	4.77	1.2	1.67	0.99 **I**	3.77	15	8.29	6.76	6.76	6.79	2.47	9.92	11	5.71	4.24	5.7	4.63	4.96
Thallium	ug/l	2	PDWS	0.19 **U**	---	0.231 **I**	---	0.19 **U**	---	0.202 **I**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	0.19 **U**	---	0.343 **I**	---	0.19 **U**	---	0.19 **U**	---
Vanadium	ug/l	NS	NS	2.4 **U**	---	2.4 **U**	---	2.4 **U**	---	2.4 **U**	---	2.4 **U**	---	2.4 **U**	---	2.4 **U**	---	2.4 **U**	3.21 **I**	---	3.92 **I**	---	2.71 **I**	---	2.4 **U**	---
Zinc	ug/l	5000	SDWS	5.9 **U**	---	5.9 **U**	---	18 **IV**	---	172	---	24.8 **IV**	---	8.14 **IV**	---	5.9 **U**	---	9.49 **I**	5.9 **U**	---	5.9 **U**	---	5.9 **U**	---	5.9 **U**	---
General Chemistry																										
Chloride	mg/l	250	SDWS	18.4	8.42	1.24	5.32	5.27	11.7	2	2.74	1.7	7.98	43.1	23.1	11.7	5.63	14.8	4.52	21.5	12.9	7.02	3.88	6.45	8.11	10.6
Nitrate (N)	mg/l	10	PDWS	8.25	---	0.134	---	0.389	---	0.585	---	0.612	---	0.0227 **U**	---	6.09	---	4.45	0.377	---	10.7	---	1.37	---	1.03	---
Residues- Filterable (TDS)	mg/l	500	SDWS	303	---	38 **V**	---	39	---	52	---	24	---	200	---	187	---	183	64	---	201	---	37	---	38	---
Field Parameters																										
Dissolved Oxygen	MG/L	NS	NS	0.5	0.2	5.1	0.2	1.1	1.9	4.5	0.6	3.4	0.1	2.3	1	1	0.1	1.4	1.9	0.1	2.3	0.2	1.8	0.1	3.2	2.1
Dissolved Oxygen	% Sat.	<20	MPIS	6.16	2.38	61.73	2.42	13.07	22.57	51.46	6.86	39.63	1.17	27.32	12.1	11.66	1.14	16.94	21.73	1.14	26.3	2.24	20.98	1.19	36.59	24.01
Oxidation Reduction Potential	mV	NS	NS	87	108	119	144	153	-97	188	189	205	256	211	198	111	103	166	154	173	116	-80	192	142	192	160
pH	S.U.	6.5-8.5	SDWS	7.42	7.63	5.34	7.95	5.47	7.26	6.01	5.41	5.68	7.86	5.55	7.96	7.24	7.53	6.93	7.1	7.7	7.74	7.85	5.67	7.77	5.29	6.77
Specific Conductance	UMHOS/CM	NS	NS	448	227	78	175	92	250	97	71	76	224	289	322	311	209	285	123	348	325	278	85	154	90	146
Temperature, Water	Deg C	NS	NS	26	24.1	25	25.4	23.5	23.6	22.5	22.5	23.4	23	24.2	24.8	23.3	22.2	24.8	21.9	21.5	21.9	21.3	23.4	24.1	22	21.8
Turbidity	NTU	NS	NS	3.91	2.64	3.43	4.86	3.52	3.53	2.84	4.66	3.3	3.53	3.91	3.5	4.59	2.64	4.25	3.59	5.31	7.95	4.4	6.28	3.16	4.49	8.09

NOTES:

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

5.2.2 Inorganic Parameters Exceedances

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

5.2.2.1 Nitrate

The FDEP PDWS of 10 milligrams per liter (mg/L) for nitrate was exceeded at detection well MW-11A (10.7 mg/L). These results were consistent with recent nitrate values obtained from this well.

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

5.2.2.2 Dissolved Oxygen

Dissolved oxygen values (calculated from field measurements) were above the Site's MPIS limit of not greater than 20 percent oxygen saturation in monitoring wells MW-2AR (61.73%), MW-3B (22.57%), MW-4A (51.46%), MW-5A (39.63%), MW-6AR (27.32%), MW-9A (21.73%), MW-11A (26.30%), MW-14A (20.98%), MW-15A(36.59%), and MW-15B (24.01%).

The monitoring wells were purged and sampled with a bladder pump at low flow rates as indicated by their relative gallons per minute (gpm) pumping rates as follows: MW-2AR (0.16 gpm), MW-3B (0.29 gpm), MW-4A (0.22 gpm), MW-5A (0.21 gpm), MW-6AR (0.22 gpm), MW-9A (0.23 gpm), MW-11A (0.23 gpm), MW-14A (0.24 gpm), MW-15A (0.28 gpm), and MW-15B (0.18 gpm). During the stabilization readings, the dissolved oxygen concentrations remained relatively steady. These measurements were collected using low flow techniques and are considered to be a natural characteristic of the aquifer system at these wells.

5.2.2.3 pH

The pH was below the SDWS range of 6.5 to 8.5 units in background monitoring wells MW-2AR (5.34 units) and MW-6AR (5.55 units) and in compliance wells MW-3A (5.47 units), MW-4A (6.01 units), MW-4B (5.41 units), MW-5A (5.68 units), MW-14A (5.67 units), and MW-15A (5.29 units). Low groundwater pH in this region is the result of low pH in precipitation, rapid recharge, and little buffering capacity of the surficial sands. The pH levels observed at the Site are characteristic of the groundwater in this region of Florida.

5.2.3 Organic Parameters Exceedances

There were no exceedances of organic parameters during the December 2020 monitoring event.

There were low level volatile organic compound (VOC) detections of acetone and chloroform. Acetone was detected at an estimated concentration in background monitoring well MW-7A (1.53 **I** µg/L) Chloroform was detected at an estimated concentration in background monitoring well MW-1A (0.3021 **I** µg/L) and MW-6AR (0.181 **I** µg/L). The "**I**" qualifier indicates that the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

6 SUMMARY

This section summarizes the December 2020 semi-annual findings based on the groundwater sampling results.

6.1 Groundwater Sampling Results

The groundwater flow assessment shows the following:

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

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

- There were no verified landfill impacts during the December 2020 monitoring event.
- Nitrate exceeded its PDWS in background monitoring wells MW-11A. The nitrate levels are attributed to background conditions, possibly associated with local RIBs facilities.
- Iron exceeded its SDWS in background monitoring well MW-7A and detection well MW-11A.
- Mercury exceeded its PDWS in background monitoring well MW-6AR. The mercury concentration is from an off-site source (possibly associated with local RIBs facilities) and not related to landfill operations.
- Dissolved oxygen values (field measurement) were above the Site's MPIS limit of not greater than 20% oxygen saturation in the groundwater monitoring wells MW-2AR, MW-3B, MW-4A, MW-5A, MW-6AR, MW-9A, MW-11A, MW-14A, MW-15A, and MW-15B. These measurements were collected using low flow techniques and are considered to be a natural characteristic of the aquifer system at these wells.
- Field pH levels fell outside the SDWS range for pH at select monitoring wells. The low pH levels in select monitoring wells are attributed to Florida's ambient groundwater quality characteristics due to low pH rainfall, rapid recharge, and the limited buffering capability of Florida's sandy soils.

Detection monitoring should continue as outlined in the MPIS.

APPENDIX A

LABORATORY ANALYTICAL RESULTS AND FIELD FORMS

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

January 27, 2021

Revised Report

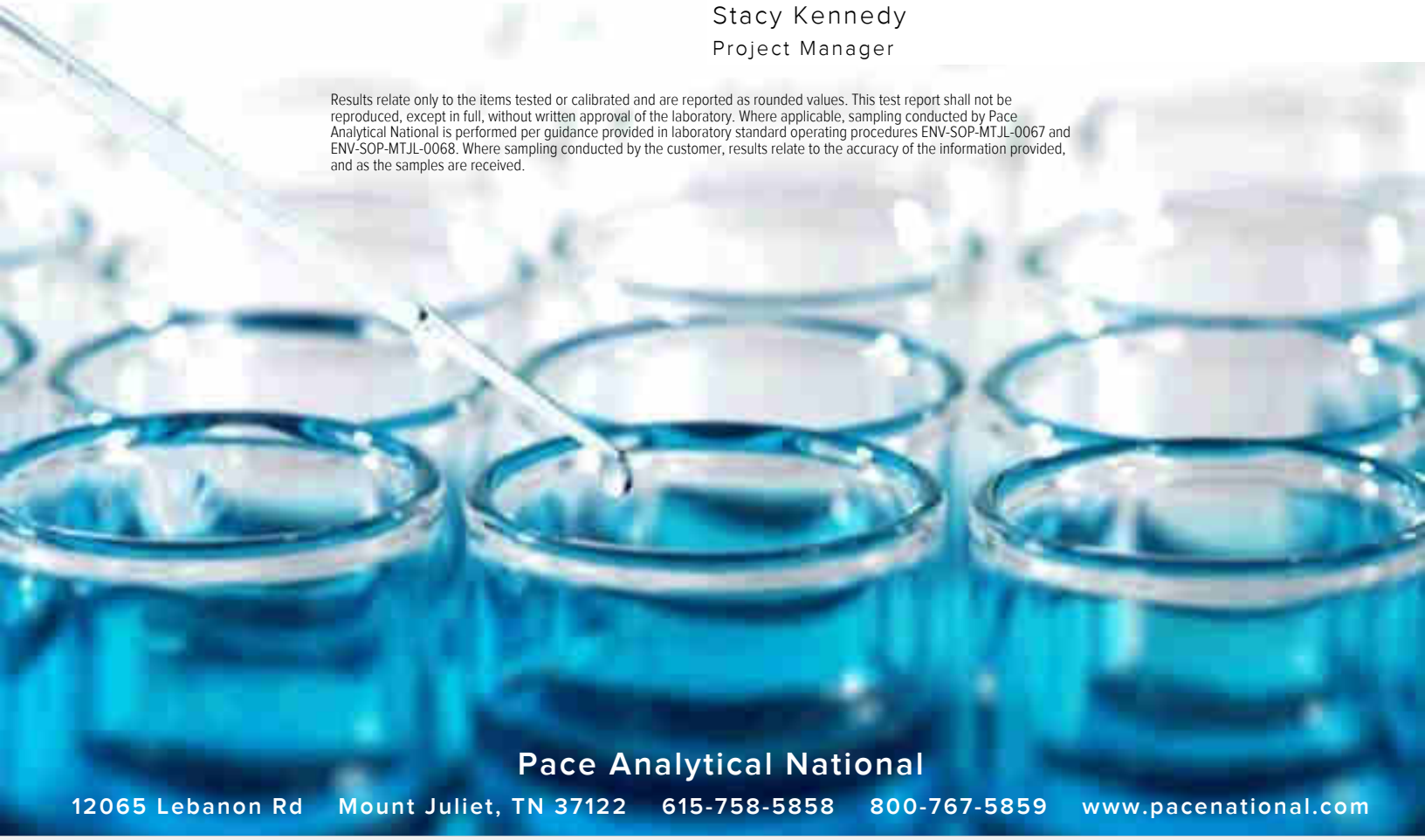
Vista

Sample Delivery Group:	L1291962
Samples Received:	12/03/2020
Project Number:	200
Description:	Vista-Semiannual GW Parameters June Dec
Site:	FL26
Report To:	Sheree Grant 4978 LB McLeod Road Orlando, FL 32811

Entire Report Reviewed By:

Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



MW-3A L1291962-01 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 13:20 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 04:44	12/04/20 04:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593074	1	12/17/20 00:06	12/17/20 00:06	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:39	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:15	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 13:49	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 16:18	12/07/20 16:18	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 14:27	TAB	Mt. Juliet, TN

MW-3B L1291962-02 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 12:42 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1592019	1	12/15/20 19:46	12/15/20 19:46	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593074	1	12/17/20 00:08	12/17/20 00:08	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:04	EL	Mt. Juliet, TN

MW-9A L1291962-03 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 10:38 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 02:21	12/04/20 02:21	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593074	1	12/17/20 00:13	12/17/20 00:13	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:41	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:17	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 14:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 16:37	12/07/20 16:37	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 14:39	TAB	Mt. Juliet, TN

MW-9B L1291962-04 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 10:01 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1592019	1	12/15/20 20:20	12/15/20 20:20	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593074	1	12/17/20 00:22	12/17/20 00:22	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:20	EL	Mt. Juliet, TN

MW-11A L1291962-05 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 09:27 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 01:55	12/04/20 01:55	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	5	12/04/20 02:08	12/04/20 02:08	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 20:40	12/15/20 20:40	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:43	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:23	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 14:56	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 16:56	12/07/20 16:56	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 14:51	TAB	Mt. Juliet, TN

MW-11B L1291962-06 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 08:51 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1592019	1	12/15/20 21:12	12/15/20 21:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 20:45	12/15/20 20:45	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:31	EL	Mt. Juliet, TN

MW-14A L1291962-07 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 12:04 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 04:18	12/04/20 04:18	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 20:48	12/15/20 20:48	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:44	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:34	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 15:13	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 17:15	12/07/20 17:15	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 15:05	TAB	Mt. Juliet, TN

MW-14B L1291962-08 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 11:22 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1592019	1	12/15/20 21:29	12/15/20 21:29	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 20:50	12/15/20 20:50	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:37	EL	Mt. Juliet, TN

MW-15A L1291962-09 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 08:16 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 01:42	12/04/20 01:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 21:08	12/15/20 21:08	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:46	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:40	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 15:16	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 17:34	12/07/20 17:34	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 15:18	TAB	Mt. Juliet, TN

MW-15B L1291962-10 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 07:37 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1592019	1	12/15/20 21:47	12/15/20 21:47	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 21:10	12/15/20 21:10	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:43	EL	Mt. Juliet, TN

EQUIPMENT BLANK 1 L1291962-11 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 13:55 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588504	1	12/08/20 16:46	12/08/20 17:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586096	1	12/04/20 04:31	12/04/20 04:31	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1591824	1	12/15/20 21:12	12/15/20 21:12	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589920	1	12/17/20 10:01	12/18/20 11:48	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1591856	1	12/15/20 10:40	12/15/20 20:45	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1589019	1	12/14/20 02:34	12/14/20 15:20	LAT	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1586694	1	12/05/20 06:32	12/05/20 15:31	TAB	Mt. Juliet, TN

TRIP BLANK 1 L1291962-12 GW

Collected by: Danny Armour | Collected date/time: 12/02/20 00:00 | Received date/time: 12/03/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 15:01	12/07/20 15:01	ADM	Mt. Juliet, TN

MW-1A L1291962-13 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 11:33 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588744	1	12/09/20 04:40	12/09/20 06:00	KLS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586712	1	12/04/20 18:09	12/04/20 18:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 15:51	12/18/20 15:51	JER	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:22	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1592095	1	12/16/20 15:08	12/16/20 17:53	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1593139	1	12/16/20 20:47	12/17/20 00:59	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 17:53	12/07/20 17:53	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 22:05	HMH	Mt. Juliet, TN

MW-1B L1291962-14 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 11:01 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1593001	1	12/17/20 02:12	12/17/20 02:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 15:56	12/18/20 15:56	JER	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:11	CCE	Mt. Juliet, TN

MW-4A L1291962-15 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 08:00 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588744	1	12/09/20 04:40	12/09/20 06:00	KLS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586712	1	12/04/20 18:42	12/04/20 18:42	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 15:59	12/18/20 15:59	JER	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:28	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:14	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1592098	1	12/16/20 10:03	12/16/20 16:39	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 18:12	12/07/20 18:12	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 21:39	HMH	Mt. Juliet, TN

MW-4B L1291962-16 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 07:22 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1593001	1	12/17/20 02:47	12/17/20 02:47	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:01	12/18/20 16:01	JER	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:00	CCE	Mt. Juliet, TN

MW-5A L1291962-17 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 09:11 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588744	1	12/09/20 04:40	12/09/20 06:00	KLS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586712	1	12/04/20 19:50	12/04/20 19:50	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:03	12/18/20 16:03	JER	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:37	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:16	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1592098	1	12/16/20 10:03	12/16/20 16:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 18:31	12/07/20 18:31	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 22:17	HMH	Mt. Juliet, TN

MW-5B L1291962-18 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 08:34 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1593001	1	12/17/20 03:39	12/17/20 03:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:09	12/18/20 16:09	JER	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:19	CCE	Mt. Juliet, TN

MW-6AR L1291962-19 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 12:55 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588744	1	12/09/20 04:40	12/09/20 06:00	KLS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586712	1	12/04/20 20:41	12/04/20 20:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:11	12/18/20 16:11	JER	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:39	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:27	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1592098	1	12/16/20 10:03	12/16/20 16:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 18:50	12/07/20 18:50	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 22:30	HMH	Mt. Juliet, TN

MW-6BR L1291962-20 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 12:12 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1593001	1	12/17/20 03:56	12/17/20 03:56	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:13	12/18/20 16:13	JER	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:30	CCE	Mt. Juliet, TN

MW-7A L1291962-21 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 10:27 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1588744	1	12/09/20 04:40	12/09/20 06:00	KLS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586712	1	12/04/20 20:58	12/04/20 20:58	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:14	12/18/20 16:14	JER	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:41	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:33	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1592098	1	12/16/20 10:03	12/16/20 16:49	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 19:10	12/07/20 19:10	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 22:43	HMH	Mt. Juliet, TN

MW-7B L1291962-22 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 09:44 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1593001	1	12/17/20 04:14	12/17/20 04:14	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593099	1	12/18/20 16:16	12/18/20 16:16	JER	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1593014	1	12/17/20 17:26	12/17/20 21:35	CCE	Mt. Juliet, TN

TRIP BLANK 2 L1291962-23 GW

Collected by: Danny Armour | Collected date/time: 12/03/20 00:00 | Received date/time: 12/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 15:20	12/07/20 15:20	ADM	Mt. Juliet, TN

MW-2AR L1291962-24 GW

Collected by: Danny Armour | Collected date/time: 12/04/20 08:38 | Received date/time: 12/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1589693	1	12/10/20 11:40	12/10/20 13:40	MML	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587093	1	12/05/20 22:51	12/05/20 22:51	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593418	1	12/21/20 18:57	12/21/20 18:57	DGR	Mt. Juliet, TN
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:43	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1594013	1	12/18/20 11:13	12/21/20 20:52	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1594017	1	12/18/20 11:16	12/18/20 16:54	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 19:29	12/07/20 19:29	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 22:56	HMH	Mt. Juliet, TN

MW-2B L1291962-25 GW

Collected by: Danny Armour | Collected date/time: 12/04/20 08:01 | Received date/time: 12/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1594575	1	12/19/20 23:21	12/19/20 23:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593418	1	12/21/20 18:59	12/21/20 18:59	DGR	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1594013	1	12/18/20 11:13	12/21/20 20:40	EL	Mt. Juliet, TN

MW-8R L1291962-26 GW

Collected by: Danny Armour | Collected date/time: 12/04/20 07:22 | Received date/time: 12/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1589693	1	12/10/20 11:40	12/10/20 13:40	MML	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587093	1	12/05/20 23:22	12/05/20 23:22	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1593418	1	12/21/20 19:01	12/21/20 19:01	DGR	Mt. Juliet, TN

MW-8R L1291962-26 GW

Collected by: Danny Armour
Collected date/time: 12/04/20 07:22
Received date/time: 12/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1589921	1	12/15/20 12:28	12/16/20 10:45	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1594013	1	12/18/20 11:13	12/21/20 20:54	EL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1594017	1	12/18/20 11:16	12/18/20 16:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 19:48	12/07/20 19:48	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1589548	1	12/10/20 10:19	12/11/20 23:09	HMH	Mt. Juliet, TN

TRIP BLANK 3 L1291962-27 GW

Collected by: Danny Armour
Collected date/time: 12/04/20 00:00
Received date/time: 12/05/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1587929	1	12/07/20 15:39	12/07/20 15:39	ADM	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Stacy Kennedy
Project Manager

Report Revision History

Level II Report - Version 1: 12/28/20 08:54

Project Comments

Report revised to reflect corrected qualifiers for batches WG1587093 and WG1591856. SK 1/26/21

Gravimetric Analysis by Method 2540 C-2011

Indicates the analyte was detected in both the sample and method blank.

Batch	Analyte	Lab Sample ID
WG1589693	Dissolved Solids	L1291962-24

Wet Chemistry by Method 300.0

Indicates the analyte was detected in both the sample and method blank.

Batch	Analyte	Lab Sample ID
WG1587093	Chloride	L1291962-24

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1586712	(MS) R3601062-8	Chloride

Wet Chemistry by Method 350.1

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1591824	(MSD) R3604210-4, L1291962-05	Ammonia Nitrogen

Metals (ICP) by Method 6010B

Indicates the analyte was detected in both the sample and method blank.

Batch	Analyte	Lab Sample ID
WG1591856	Sodium,Total Recoverable	L1291962-11
WG1591856	Zinc, Total Recoverable	L1291962-01
WG1593014	Zinc, Total Recoverable	L1291962-17, 19

Volatile Organic Compounds (GC/MS) by Method 8260B

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1587929	(LCS) R3601303-1, (LCSD) R3601303-2, L1291962-01, 03, 05, 07, 09, 12, 13, 15, 17, 19, 21, 23, 24, 26, 27	cis-1,3-Dichloropropene and trans-1,4-Dichloro-2-butene

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.61	ft
pH (On Site)	5.47	su
Temperature (on-site)	23.5	Deg. C
Specific Conductance (on site)	92	umhos/cm
Dissolved Oxygen (on-site)	1.1	mg/l
Turbidity (on-site)	3.52	NTU
eH/ORP (On Site)	153	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	39.0		2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.27		0.0519	1.00	1	12/04/2020 04:44	WG1586096
Nitrate as (N)	0.389		0.0227	0.100	1	12/04/2020 04:44	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/17/2020 00:06	WG1593074

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/18/2020 11:39	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	2.95		0.0111	1.00	1	12/15/2020 20:15	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:15	WG1591856
Barium,Total Recoverable	28.1		1.70	5.00	1	12/15/2020 20:15	WG1591856
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/15/2020 20:15	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:15	WG1591856
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/15/2020 20:15	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:15	WG1591856
Iron, Total Recoverable	58.3	I	14.1	100	1	12/15/2020 20:15	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:15	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:15	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:15	WG1591856
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/15/2020 20:15	WG1591856
Zinc, Total Recoverable	18.0	I V	5.90	50.0	1	12/15/2020 20:15	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/14/2020 13:49	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 13:49	WG1589019
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/14/2020 13:49	WG1589019

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 16:18	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:18	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 16:18	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:18	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 16:18	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 16:18	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 16:18	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 16:18	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 16:18	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 16:18	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 16:18	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 16:18	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 16:18	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 16:18	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 16:18	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 16:18	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 16:18	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 16:18	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 16:18	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 16:18	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 16:18	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 16:18	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 16:18	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 16:18	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 16:18	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 16:18	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 16:18	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 16:18	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 16:18	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 16:18	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 16:18	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 16:18	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 16:18	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 16:18	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 16:18	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 16:18	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 16:18	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 16:18	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 16:18	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 16:18	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 16:18	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 16:18	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 16:18	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 16:18	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 16:18	WG1587929
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*12/07/2020 16:18*	WG1587929
(S) Toluene-d8	*111*			*80.0-120*		*12/07/2020 16:18*	WG1587929
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*12/07/2020 16:18*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 14:27	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 14:27	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.54	ft
pH (On Site)	7.26	su
Temperature (on-site)	23.6	Deg. C
Specific Conductance (on site)	250	umhos/cm
Dissolved Oxygen (on-site)	1.9	mg/l
Turbidity (on-site)	3.53	NTU
eH/ORP (On Site)	-97	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	11.7		0.0519	1.00	1	12/15/2020 19:46	WG1592019

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/17/2020 00:08	WG1593074

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.77		0.0111	1.00	1	12/15/2020 20:04	WG1591856

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.1	su
Temperature (on-site)	21.9	Deg. C
Specific Conductance (on site)	123	umhos/cm
Dissolved Oxygen (on-site)	1.9	mg/l
Turbidity (on-site)	3.59	NTU
eH/ORP (On Site)	154	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	64.0		2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4.52		0.0519	1.00	1	12/04/2020 02:21	WG1586096
Nitrate as (N)	0.377		0.0227	0.100	1	12/04/2020 02:21	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/17/2020 00:13	WG1593074

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/18/2020 11:41	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	2.47		0.0111	1.00	1	12/15/2020 20:17	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:17	WG1591856
Barium,Total Recoverable	5.68		1.70	5.00	1	12/15/2020 20:17	WG1591856
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/15/2020 20:17	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:17	WG1591856
Chromium, Total Recoverable	2.15	I	1.40	10.0	1	12/15/2020 20:17	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:17	WG1591856
Iron, Total Recoverable	33.0	I	14.1	100	1	12/15/2020 20:17	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:17	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:17	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:17	WG1591856
Vanadium,Total Recoverable	3.21	I	2.40	20.0	1	12/15/2020 20:17	WG1591856
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/15/2020 20:17	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/14/2020 14:53	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 14:53	WG1589019
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/14/2020 14:53	WG1589019
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/14/2020 14:53	WG1589019

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 16:37	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:37	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 16:37	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:37	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 16:37	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 16:37	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 16:37	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 16:37	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 16:37	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 16:37	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 16:37	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 16:37	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 16:37	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 16:37	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 16:37	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 16:37	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 16:37	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 16:37	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 16:37	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 16:37	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 16:37	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 16:37	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 16:37	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 16:37	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 16:37	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 16:37	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 16:37	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 16:37	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 16:37	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 16:37	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 16:37	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 16:37	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 16:37	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 16:37	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 16:37	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 16:37	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 16:37	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 16:37	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 16:37	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 16:37	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 16:37	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 16:37	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 16:37	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 16:37	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 16:37	WG1587929
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*12/07/2020 16:37*	WG1587929
(S) Toluene-d8	*112*			*80.0-120*		*12/07/2020 16:37*	WG1587929
(S) 1,2-Dichloroethane-d4	*93.3*			*70.0-130*		*12/07/2020 16:37*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 14:39	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 14:39	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.7	su
Temperature (on-site)	21.5	Deg. C
Specific Conductance (on site)	348	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	5.31	NTU
eH/ORP (On Site)	173	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	21.5		0.0519	1.00	1	12/15/2020 20:20	WG1592019

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/17/2020 00:22	WG1593074

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	9.92		0.0111	1.00	1	12/15/2020 20:20	WG1591856

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.74	su
Temperature (on-site)	21.9	Deg. C
Specific Conductance (on site)	325	umhos/cm
Dissolved Oxygen (on-site)	2.3	mg/l
Turbidity (on-site)	7.95	NTU
eH/ORP (On Site)	116	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	201		2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	12.9		0.0519	1.00	1	12/04/2020 01:55	WG1586096
Nitrate as (N)	10.7		0.114	0.500	5	12/04/2020 02:08	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	J U	0.0317	0.100	1	12/15/2020 20:40	WG1591824

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/18/2020 11:43	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	11.0		0.0111	1.00	1	12/15/2020 20:23	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:23	WG1591856
Barium,Total Recoverable	21.2		1.70	5.00	1	12/15/2020 20:23	WG1591856
Cadmium, Total Recoverable	0.961	I	0.700	2.00	1	12/15/2020 20:23	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:23	WG1591856
Chromium, Total Recoverable	3.76	I	1.40	10.0	1	12/15/2020 20:23	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:23	WG1591856
Iron, Total Recoverable	369		14.1	100	1	12/15/2020 20:23	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:23	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:23	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:23	WG1591856
Vanadium,Total Recoverable	3.92	I	2.40	20.0	1	12/15/2020 20:23	WG1591856
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/15/2020 20:23	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	1.43	I	0.250	2.00	1	12/14/2020 14:56	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 14:56	WG1589019
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/14/2020 14:56	WG1589019
Thallium, Total Recoverable	0.343	I	0.190	2.00	1	12/14/2020 14:56	WG1589019

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 16:56	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:56	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 16:56	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 16:56	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 16:56	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 16:56	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 16:56	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 16:56	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 16:56	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 16:56	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 16:56	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 16:56	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 16:56	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 16:56	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 16:56	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 16:56	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 16:56	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 16:56	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 16:56	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 16:56	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 16:56	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 16:56	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 16:56	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 16:56	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 16:56	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 16:56	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 16:56	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 16:56	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 16:56	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 16:56	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 16:56	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 16:56	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 16:56	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 16:56	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 16:56	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 16:56	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 16:56	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 16:56	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 16:56	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 16:56	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 16:56	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 16:56	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 16:56	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 16:56	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 16:56	WG1587929
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*12/07/2020 16:56*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 16:56*	WG1587929
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*12/07/2020 16:56*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 14:51	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 14:51	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.85	su
Temperature (on-site)	21.3	Deg. C
Specific Conductance (on site)	278	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	4.4	NTU
eH/ORP (On Site)	-80	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	7.02		0.0519	1.00	1	12/15/2020 21:12	WG1592019

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 20:45	WG1591824

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.71		0.0111	1.00	1	12/15/2020 20:31	WG1591856

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	5.67	su
Temperature (on-site)	23.4	Deg. C
Specific Conductance (on site)	85	umhos/cm
Dissolved Oxygen (on-site)	1.8	mg/l
Turbidity (on-site)	6.28	NTU
eH/ORP (On Site)	192	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	37.0		2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3.88		0.0519	1.00	1	12/04/2020 04:18	WG1586096
Nitrate as (N)	1.37		0.0227	0.100	1	12/04/2020 04:18	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 20:48	WG1591824

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/18/2020 11:44	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.24		0.0111	1.00	1	12/15/2020 20:34	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:34	WG1591856
Barium,Total Recoverable	10.2		1.70	5.00	1	12/15/2020 20:34	WG1591856
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/15/2020 20:34	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:34	WG1591856
Chromium, Total Recoverable	1.87	I	1.40	10.0	1	12/15/2020 20:34	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:34	WG1591856
Iron, Total Recoverable	170		14.1	100	1	12/15/2020 20:34	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:34	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:34	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:34	WG1591856
Vanadium,Total Recoverable	2.71	I	2.40	20.0	1	12/15/2020 20:34	WG1591856
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/15/2020 20:34	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.279	I	0.250	2.00	1	12/14/2020 15:13	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 15:13	WG1589019
Antimony, Total Recoverable	0.902	I	0.754	2.00	1	12/14/2020 15:13	WG1589019
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/14/2020 15:13	WG1589019

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 17:15	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:15	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 17:15	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:15	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 17:15	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 17:15	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 17:15	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 17:15	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 17:15	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 17:15	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 17:15	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 17:15	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 17:15	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 17:15	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 17:15	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 17:15	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 17:15	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 17:15	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 17:15	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 17:15	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 17:15	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 17:15	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 17:15	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 17:15	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 17:15	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 17:15	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 17:15	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 17:15	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 17:15	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 17:15	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 17:15	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 17:15	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 17:15	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 17:15	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 17:15	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 17:15	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 17:15	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 17:15	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 17:15	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 17:15	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 17:15	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 17:15	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 17:15	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 17:15	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 17:15	WG1587929
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*12/07/2020 17:15*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 17:15*	WG1587929
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*		*12/07/2020 17:15*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 15:05	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 15:05	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	SP	
pH (On Site)	7.77	su
Temperature (on-site)	24.1	Deg. C
Specific Conductance (on site)	154	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	3.16	NTU
eH/ORP (On Site)	142	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6.45		0.0519	1.00	1	12/15/2020 21:29	WG1592019

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 20:50	WG1591824

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.70		0.0111	1.00	1	12/15/2020 20:37	WG1591856

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	5.29	su
Temperature (on-site)	22	Deg. C
Specific Conductance (on site)	90	umhos/cm
Dissolved Oxygen (on-site)	3.2	mg/l
Turbidity (on-site)	4.49	NTU
eH/ORP (On Site)	192	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	38.0		2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	8.11		0.0519	1.00	1	12/04/2020 01:42	WG1586096
Nitrate as (N)	1.03		0.0227	0.100	1	12/04/2020 01:42	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 21:08	WG1591824

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0646	I	0.0490	0.200	1	12/18/2020 11:46	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.63		0.0111	1.00	1	12/15/2020 20:40	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:40	WG1591856
Barium,Total Recoverable	5.87		1.70	5.00	1	12/15/2020 20:40	WG1591856
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/15/2020 20:40	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:40	WG1591856
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/15/2020 20:40	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:40	WG1591856
Iron, Total Recoverable	37.8	I	14.1	100	1	12/15/2020 20:40	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:40	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:40	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:40	WG1591856
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/15/2020 20:40	WG1591856
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/15/2020 20:40	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/14/2020 15:16	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 15:16	WG1589019
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/14/2020 15:16	WG1589019
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/14/2020 15:16	WG1589019

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 17:34	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:34	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 17:34	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:34	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 17:34	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 17:34	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 17:34	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 17:34	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 17:34	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 17:34	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 17:34	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 17:34	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 17:34	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 17:34	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 17:34	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 17:34	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 17:34	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 17:34	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 17:34	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 17:34	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 17:34	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 17:34	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 17:34	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 17:34	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 17:34	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 17:34	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 17:34	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 17:34	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 17:34	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 17:34	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 17:34	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 17:34	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 17:34	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 17:34	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 17:34	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 17:34	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 17:34	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 17:34	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 17:34	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 17:34	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 17:34	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 17:34	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 17:34	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 17:34	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 17:34	WG1587929
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*12/07/2020 17:34*	WG1587929
(S) Toluene-d8	*111*			*80.0-120*		*12/07/2020 17:34*	WG1587929
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*12/07/2020 17:34*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 15:18	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 15:18	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	6.77	su
Temperature (on-site)	21.8	Deg. C
Specific Conductance (on site)	146	umhos/cm
Dissolved Oxygen (on-site)	2.1	mg/l
Turbidity (on-site)	8.09	NTU
eH/ORP (On Site)	160	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	10.6		0.0519	1.00	1	12/15/2020 21:47	WG1592019

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 21:10	WG1591824

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.96		0.0111	1.00	1	12/15/2020 20:43	WG1591856

Additional Information

Analyte	Result	Units
pH (On Site)	6.88	su
Temperature (on-site)	23.3	Deg. C
Specific Conductance (on site)	7	umhos/cm
Dissolved Oxygen (on-site)	.8	mg/l
Turbidity (on-site)	0	NTU
eH/ORP (On Site)	27	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2.82	U	2.82	10.0	1	12/08/2020 17:42	WG1588504

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.148	I	0.0519	1.00	1	12/04/2020 04:31	WG1586096
Nitrate as (N)	0.0272	I	0.0227	0.100	1	12/04/2020 04:31	WG1586096

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/15/2020 21:12	WG1591824

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/18/2020 11:48	WG1589920

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	0.146	I V	0.0111	1.00	1	12/15/2020 20:45	WG1591856

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/15/2020 20:45	WG1591856
Barium,Total Recoverable	1.70	U	1.70	5.00	1	12/15/2020 20:45	WG1591856
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/15/2020 20:45	WG1591856
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/15/2020 20:45	WG1591856
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/15/2020 20:45	WG1591856
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/15/2020 20:45	WG1591856
Iron, Total Recoverable	14.1	U	14.1	100	1	12/15/2020 20:45	WG1591856
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/15/2020 20:45	WG1591856
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/15/2020 20:45	WG1591856
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/15/2020 20:45	WG1591856
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/15/2020 20:45	WG1591856
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/15/2020 20:45	WG1591856

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/14/2020 15:20	WG1589019
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/14/2020 15:20	WG1589019
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/14/2020 15:20	WG1589019
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/14/2020 15:20	WG1589019

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/05/2020 15:31	WG1586694
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/05/2020 15:31	WG1586694

Additional Information

Analyte	Result	Units
Sampling Method	Z	

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 15:01	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:01	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 15:01	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:01	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 15:01	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 15:01	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 15:01	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 15:01	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 15:01	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 15:01	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 15:01	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 15:01	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 15:01	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 15:01	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 15:01	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 15:01	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 15:01	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 15:01	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 15:01	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 15:01	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 15:01	WG1587929
Carbon disulfide	0.193	I	0.101	0.500	1	12/07/2020 15:01	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 15:01	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 15:01	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 15:01	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 15:01	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 15:01	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 15:01	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 15:01	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 15:01	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 15:01	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 15:01	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 15:01	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 15:01	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 15:01	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 15:01	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 15:01	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 15:01	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 15:01	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 15:01	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 15:01	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 15:01	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 15:01	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 15:01	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 15:01	WG1587929
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*12/07/2020 15:01*	WG1587929
(S) Toluene-d8	*113*			*80.0-120*		*12/07/2020 15:01*	WG1587929
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*		*12/07/2020 15:01*	WG1587929

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	70.58	ft
pH (On Site)	7.42	su
Temperature (on-site)	26	Deg. C
Specific Conductance (on site)	448	umhos/cm
Dissolved Oxygen (on-site)	.5	mg/l
Turbidity (on-site)	3.91	NTU
eH/ORP (On Site)	87	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	303		2.82	10.0	1	12/09/2020 06:00	WG1588744

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	18.4		0.0519	1.00	1	12/04/2020 18:09	WG1586712
Nitrate as (N)	8.25		0.0227	0.100	1	12/04/2020 18:09	WG1586712

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 15:51	WG1593099

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:22	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	8.61		0.0111	1.00	1	12/16/2020 17:53	WG1592095

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/16/2020 17:53	WG1592095
Barium,Total Recoverable	32.1		1.70	5.00	1	12/16/2020 17:53	WG1592095
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/16/2020 17:53	WG1592095
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/16/2020 17:53	WG1592095
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/16/2020 17:53	WG1592095
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/16/2020 17:53	WG1592095
Iron, Total Recoverable	58.7	I	14.1	100	1	12/16/2020 17:53	WG1592095
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/16/2020 17:53	WG1592095
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/16/2020 17:53	WG1592095
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/16/2020 17:53	WG1592095
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/16/2020 17:53	WG1592095
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/16/2020 17:53	WG1592095

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/17/2020 00:59	WG1593139
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/17/2020 00:59	WG1593139
Antimony, Total Recoverable	0.843	I	0.754	2.00	1	12/17/2020 00:59	WG1593139
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/17/2020 00:59	WG1593139

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 17:53	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:53	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 17:53	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 17:53	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 17:53	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 17:53	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 17:53	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 17:53	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 17:53	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 17:53	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 17:53	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 17:53	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 17:53	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 17:53	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 17:53	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 17:53	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 17:53	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 17:53	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 17:53	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 17:53	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 17:53	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 17:53	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 17:53	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 17:53	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 17:53	WG1587929
Chloroform	0.302	I	0.0860	0.500	1	12/07/2020 17:53	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 17:53	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 17:53	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 17:53	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 17:53	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 17:53	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 17:53	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 17:53	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 17:53	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 17:53	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 17:53	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 17:53	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 17:53	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 17:53	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 17:53	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 17:53	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 17:53	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 17:53	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 17:53	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 17:53	WG1587929
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/07/2020 17:53*	WG1587929
(S) Toluene-d8	*111*			*80.0-120*		*12/07/2020 17:53*	WG1587929
(S) 1,2-Dichloroethane-d4	*93.4*			*70.0-130*		*12/07/2020 17:53*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 22:05	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 22:05	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	61.43	ft
pH (On Site)	7.63	su
Temperature (on-site)	24.1	Deg. C
Specific Conductance (on site)	227	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	2.64	NTU
eH/ORP (On Site)	108	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	8.42		0.0519	1.00	1	12/17/2020 02:12	WG1593001

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 15:56	WG1593099

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.30		0.0111	1.00	1	12/17/2020 21:11	WG1593014

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.89	ft
pH (On Site)	6.01	su
Temperature (on-site)	22.5	Deg. C
Specific Conductance (on site)	97	umhos/cm
Dissolved Oxygen (on-site)	4.5	mg/l
Turbidity (on-site)	2.84	NTU
eH/ORP (On Site)	188	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	52.0		2.82	10.0	1	12/09/2020 06:00	WG1588744

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.00		0.0519	1.00	1	12/04/2020 18:42	WG1586712
Nitrate as (N)	0.585		0.0227	0.100	1	12/04/2020 18:42	WG1586712

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 15:59	WG1593099

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:28	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	1.20		0.0111	1.00	1	12/17/2020 21:14	WG1593014

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/17/2020 21:14	WG1593014
Barium,Total Recoverable	13.5		1.70	5.00	1	12/17/2020 21:14	WG1593014
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/17/2020 21:14	WG1593014
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/17/2020 21:14	WG1593014
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/17/2020 21:14	WG1593014
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/17/2020 21:14	WG1593014
Iron, Total Recoverable	21.3	J	14.1	100	1	12/17/2020 21:14	WG1593014
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/17/2020 21:14	WG1593014
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/17/2020 21:14	WG1593014
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/17/2020 21:14	WG1593014
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/17/2020 21:14	WG1593014
Zinc, Total Recoverable	172		5.90	50.0	1	12/17/2020 21:14	WG1593014

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/16/2020 16:39	WG1592098
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/16/2020 16:39	WG1592098
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/16/2020 16:39	WG1592098
Thallium, Total Recoverable	0.202	I	0.190	2.00	1	12/16/2020 16:39	WG1592098

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 18:12	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:12	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 18:12	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:12	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 18:12	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 18:12	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 18:12	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 18:12	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 18:12	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 18:12	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 18:12	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 18:12	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 18:12	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 18:12	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 18:12	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 18:12	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 18:12	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 18:12	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 18:12	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 18:12	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 18:12	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 18:12	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 18:12	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 18:12	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 18:12	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 18:12	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 18:12	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 18:12	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 18:12	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 18:12	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 18:12	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 18:12	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 18:12	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 18:12	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 18:12	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 18:12	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 18:12	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 18:12	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 18:12	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 18:12	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 18:12	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 18:12	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 18:12	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 18:12	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 18:12	WG1587929
(S) 4-Bromofluorobenzene	*110*			*77.0-126*		*12/07/2020 18:12*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 18:12*	WG1587929
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*12/07/2020 18:12*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 21:39	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 21:39	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	59.87	ft
pH (On Site)	5.41	su
Temperature (on-site)	22.5	Deg. C
Specific Conductance (on site)	71	umhos/cm
Dissolved Oxygen (on-site)	.6	mg/l
Turbidity (on-site)	4.66	NTU
eH/ORP (On Site)	189	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.74		0.0519	1.00	1	12/17/2020 02:47	WG1593001

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:01	WG1593099

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	1.67		0.0111	1.00	1	12/17/2020 21:00	WG1593014

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	60.38	ft
pH (On Site)	5.68	su
Temperature (on-site)	23.4	Deg. C
Specific Conductance (on site)	76	umhos/cm
Dissolved Oxygen (on-site)	3.4	mg/l
Turbidity (on-site)	3.3	NTU
eH/ORP (On Site)	205	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	24.0		2.82	10.0	1	12/09/2020 06:00	WG1588744

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1.70		0.0519	1.00	1	12/04/2020 19:50	WG1586712
Nitrate as (N)	0.612		0.0227	0.100	1	12/04/2020 19:50	WG1586712

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:03	WG1593099

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:37	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	0.990	I	0.0111	1.00	1	12/17/2020 21:16	WG1593014

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/17/2020 21:16	WG1593014
Barium,Total Recoverable	14.5		1.70	5.00	1	12/17/2020 21:16	WG1593014
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/17/2020 21:16	WG1593014
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/17/2020 21:16	WG1593014
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/17/2020 21:16	WG1593014
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/17/2020 21:16	WG1593014
Iron, Total Recoverable	214		14.1	100	1	12/17/2020 21:16	WG1593014
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/17/2020 21:16	WG1593014
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/17/2020 21:16	WG1593014
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/17/2020 21:16	WG1593014
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/17/2020 21:16	WG1593014
Zinc, Total Recoverable	24.8	I V	5.90	50.0	1	12/17/2020 21:16	WG1593014

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/16/2020 16:42	WG1592098
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/16/2020 16:42	WG1592098
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/16/2020 16:42	WG1592098
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/16/2020 16:42	WG1592098

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 18:31	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:31	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 18:31	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:31	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 18:31	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 18:31	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 18:31	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 18:31	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 18:31	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 18:31	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 18:31	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 18:31	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 18:31	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 18:31	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 18:31	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 18:31	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 18:31	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 18:31	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 18:31	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 18:31	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 18:31	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 18:31	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 18:31	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 18:31	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 18:31	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 18:31	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 18:31	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 18:31	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 18:31	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 18:31	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 18:31	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 18:31	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 18:31	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 18:31	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 18:31	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 18:31	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 18:31	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 18:31	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 18:31	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 18:31	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 18:31	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 18:31	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 18:31	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 18:31	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 18:31	WG1587929
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*12/07/2020 18:31*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 18:31*	WG1587929
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*12/07/2020 18:31*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 22:17	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 22:17	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.62	ft
pH (On Site)	7.86	su
Temperature (on-site)	23	Deg. C
Specific Conductance (on site)	224	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	3.53	NTU
eH/ORP (On Site)	256	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	7.98		0.0519	1.00	1	12/17/2020 03:39	WG1593001

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:09	WG1593099

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	3.77		0.0111	1.00	1	12/17/2020 21:19	WG1593014

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.89	ft
pH (On Site)	5.55	su
Temperature (on-site)	24.2	Deg. C
Specific Conductance (on site)	289	umhos/cm
Dissolved Oxygen (on-site)	2.3	mg/l
Turbidity (on-site)	3.91	NTU
eH/ORP (On Site)	211	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	200		2.82	10.0	1	12/09/2020 06:00	WG1588744

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	43.1		0.0519	1.00	1	12/04/2020 20:41	WG1586712
Nitrate as (N)	0.0227	U	0.0227	0.100	1	12/04/2020 20:41	WG1586712

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:11	WG1593099

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	3.94		0.0490	0.200	1	12/16/2020 10:39	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	15.0		0.0111	1.00	1	12/17/2020 21:27	WG1593014

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/17/2020 21:27	WG1593014
Barium,Total Recoverable	35.9		1.70	5.00	1	12/17/2020 21:27	WG1593014
Cadmium, Total Recoverable	1.08	I	0.700	2.00	1	12/17/2020 21:27	WG1593014
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/17/2020 21:27	WG1593014
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/17/2020 21:27	WG1593014
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/17/2020 21:27	WG1593014
Iron, Total Recoverable	14.1	U	14.1	100	1	12/17/2020 21:27	WG1593014
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/17/2020 21:27	WG1593014
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/17/2020 21:27	WG1593014
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/17/2020 21:27	WG1593014
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/17/2020 21:27	WG1593014
Zinc, Total Recoverable	8.14	I V	5.90	50.0	1	12/17/2020 21:27	WG1593014

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/16/2020 16:46	WG1592098
Beryllium, Total Recoverable	0.127	I	0.120	2.00	1	12/16/2020 16:46	WG1592098
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/16/2020 16:46	WG1592098
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/16/2020 16:46	WG1592098

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 18:50	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:50	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 18:50	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 18:50	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 18:50	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 18:50	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 18:50	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 18:50	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 18:50	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 18:50	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 18:50	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 18:50	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 18:50	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 18:50	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 18:50	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 18:50	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 18:50	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 18:50	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 18:50	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 18:50	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 18:50	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 18:50	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 18:50	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 18:50	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 18:50	WG1587929
Chloroform	0.181	I	0.0860	0.500	1	12/07/2020 18:50	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 18:50	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 18:50	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 18:50	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 18:50	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 18:50	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 18:50	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 18:50	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 18:50	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 18:50	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 18:50	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 18:50	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 18:50	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 18:50	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 18:50	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 18:50	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 18:50	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 18:50	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 18:50	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 18:50	WG1587929
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*12/07/2020 18:50*	WG1587929
(S) Toluene-d8	*112*			*80.0-120*		*12/07/2020 18:50*	WG1587929
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*		*12/07/2020 18:50*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 22:30	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 22:30	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	58.92	ft
pH (On Site)	7.96	su
Temperature (on-site)	24.8	Deg. C
Specific Conductance (on site)	322	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	3.5	NTU
eH/ORP (On Site)	198	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	23.1		0.0519	1.00	1	12/17/2020 03:56	WG1593001

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:13	WG1593099

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	8.29		0.0111	1.00	1	12/17/2020 21:30	WG1593014

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	72.81	ft
pH (On Site)	7.24	su
Temperature (on-site)	23.3	Deg. C
Specific Conductance (on site)	311	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	4.59	NTU
eH/ORP (On Site)	111	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	187		2.82	10.0	1	12/09/2020 06:00	WG1588744

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	11.7		0.0519	1.00	1	12/04/2020 20:58	WG1586712
Nitrate as (N)	6.09		0.0227	0.100	1	12/04/2020 20:58	WG1586712

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:14	WG1593099

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:41	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.76		0.0111	1.00	1	12/17/2020 21:33	WG1593014

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/17/2020 21:33	WG1593014
Barium,Total Recoverable	25.7		1.70	5.00	1	12/17/2020 21:33	WG1593014
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/17/2020 21:33	WG1593014
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/17/2020 21:33	WG1593014
Chromium, Total Recoverable	2.52	I	1.40	10.0	1	12/17/2020 21:33	WG1593014
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/17/2020 21:33	WG1593014
Iron, Total Recoverable	6910		14.1	100	1	12/17/2020 21:33	WG1593014
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/17/2020 21:33	WG1593014
Lead, Total Recoverable	1.91	I	1.90	5.00	1	12/17/2020 21:33	WG1593014
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/17/2020 21:33	WG1593014
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/17/2020 21:33	WG1593014
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/17/2020 21:33	WG1593014

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	5.82		0.250	2.00	1	12/16/2020 16:49	WG1592098
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/16/2020 16:49	WG1592098
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/16/2020 16:49	WG1592098
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/16/2020 16:49	WG1592098

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 19:10	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:10	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 19:10	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:10	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 19:10	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 19:10	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 19:10	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 19:10	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 19:10	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 19:10	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 19:10	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 19:10	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 19:10	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 19:10	WG1587929
Acetone	1.53	I	1.05	25.0	1	12/07/2020 19:10	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 19:10	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 19:10	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 19:10	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 19:10	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 19:10	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 19:10	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 19:10	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 19:10	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 19:10	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 19:10	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 19:10	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 19:10	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 19:10	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 19:10	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 19:10	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 19:10	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 19:10	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 19:10	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 19:10	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 19:10	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 19:10	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 19:10	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 19:10	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 19:10	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 19:10	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 19:10	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 19:10	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 19:10	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 19:10	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 19:10	WG1587929
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*12/07/2020 19:10*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 19:10*	WG1587929
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*		*12/07/2020 19:10*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 22:43	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 22:43	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	60.27	ft
pH (On Site)	7.53	su
Temperature (on-site)	22.2	Deg. C
Specific Conductance (on site)	209	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	2.64	NTU
eH/ORP (On Site)	103	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.63		0.0519	1.00	1	12/17/2020 04:14	WG1593001

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/18/2020 16:16	WG1593099

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.76		0.0111	1.00	1	12/17/2020 21:35	WG1593014

Additional Information

Analyte	Result	Units
Sampling Method	Z	

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 15:20	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:20	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 15:20	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:20	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 15:20	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 15:20	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 15:20	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 15:20	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 15:20	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 15:20	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 15:20	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 15:20	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 15:20	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 15:20	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 15:20	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 15:20	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 15:20	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 15:20	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 15:20	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 15:20	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 15:20	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 15:20	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 15:20	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 15:20	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 15:20	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 15:20	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 15:20	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 15:20	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 15:20	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 15:20	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 15:20	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 15:20	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 15:20	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 15:20	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 15:20	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 15:20	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 15:20	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 15:20	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 15:20	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 15:20	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 15:20	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 15:20	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 15:20	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 15:20	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 15:20	WG1587929
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/07/2020 15:20*	WG1587929
(S) Toluene-d8	*111*			*80.0-120*		*12/07/2020 15:20*	WG1587929
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*12/07/2020 15:20*	WG1587929

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	60.22	ft
pH (On Site)	5.34	su
Temperature (on-site)	25	Deg. C
Specific Conductance (on site)	78	umhos/cm
Dissolved Oxygen (on-site)	5.1	mg/l
Turbidity (on-site)	3.43	NTU
eH/ORP (On Site)	119	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	38.0	V	2.82	10.0	1	12/10/2020 13:40	WG1589693

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1.24	V	0.0519	1.00	1	12/05/2020 22:51	WG1587093
Nitrate as (N)	0.134		0.0227	0.100	1	12/05/2020 22:51	WG1587093

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/21/2020 18:57	WG1593418

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:43	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	1.50		0.0111	1.00	1	12/21/2020 20:52	WG1594013

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/21/2020 20:52	WG1594013
Barium,Total Recoverable	11.6		1.70	5.00	1	12/21/2020 20:52	WG1594013
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/21/2020 20:52	WG1594013
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/21/2020 20:52	WG1594013
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/21/2020 20:52	WG1594013
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/21/2020 20:52	WG1594013
Iron, Total Recoverable	16.0	I	14.1	100	1	12/21/2020 20:52	WG1594013
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/21/2020 20:52	WG1594013
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/21/2020 20:52	WG1594013
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/21/2020 20:52	WG1594013
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/21/2020 20:52	WG1594013
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/21/2020 20:52	WG1594013

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.250	U	0.250	2.00	1	12/18/2020 16:54	WG1594017
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/18/2020 16:54	WG1594017
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/18/2020 16:54	WG1594017
Thallium, Total Recoverable	0.231	I	0.190	2.00	1	12/18/2020 16:54	WG1594017

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 19:29	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:29	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 19:29	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:29	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 19:29	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 19:29	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 19:29	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 19:29	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 19:29	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 19:29	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 19:29	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 19:29	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 19:29	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 19:29	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 19:29	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 19:29	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 19:29	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 19:29	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 19:29	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 19:29	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 19:29	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 19:29	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 19:29	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 19:29	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 19:29	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 19:29	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 19:29	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 19:29	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 19:29	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 19:29	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 19:29	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 19:29	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 19:29	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 19:29	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 19:29	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 19:29	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 19:29	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 19:29	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 19:29	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 19:29	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 19:29	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 19:29	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 19:29	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 19:29	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 19:29	WG1587929
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/07/2020 19:29*	WG1587929
(S) Toluene-d8	*110*			*80.0-120*		*12/07/2020 19:29*	WG1587929
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*12/07/2020 19:29*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 22:56	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 22:56	WG1589548

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	59.24	ft
pH (On Site)	7.95	su
Temperature (on-site)	25.4	Deg. C
Specific Conductance (on site)	175	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	4.86	NTU
eH/ORP (On Site)	144	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.32		0.0519	1.00	1	12/19/2020 23:21	WG1594575

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/21/2020 18:59	WG1593418

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.56		0.0111	1.00	1	12/21/2020 20:40	WG1594013

Additional Information

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	61.18	ft
pH (On Site)	6.93	su
Temperature (on-site)	24.8	Deg. C
Specific Conductance (on site)	285	umhos/cm
Dissolved Oxygen (on-site)	1.4	mg/l
Turbidity (on-site)	4.25	NTU
eH/ORP (On Site)	166	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	183		2.82	10.0	1	12/10/2020 13:40	WG1589693

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	14.8		0.0519	1.00	1	12/05/2020 23:22	WG1587093
Nitrate as (N)	4.45		0.0227	0.100	1	12/05/2020 23:22	WG1587093

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	0.0317	U	0.0317	0.100	1	12/21/2020 19:01	WG1593418

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0490	U	0.0490	0.200	1	12/16/2020 10:45	WG1589921

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.79		0.0111	1.00	1	12/21/2020 20:54	WG1594013

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Silver, Total Recoverable	2.80	U	2.80	5.00	1	12/21/2020 20:54	WG1594013
Barium,Total Recoverable	26.8		1.70	5.00	1	12/21/2020 20:54	WG1594013
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/21/2020 20:54	WG1594013
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/21/2020 20:54	WG1594013
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/21/2020 20:54	WG1594013
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/21/2020 20:54	WG1594013
Iron, Total Recoverable	14.1	U	14.1	100	1	12/21/2020 20:54	WG1594013
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/21/2020 20:54	WG1594013
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/21/2020 20:54	WG1594013
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/21/2020 20:54	WG1594013
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/21/2020 20:54	WG1594013
Zinc, Total Recoverable	9.49	I	5.90	50.0	1	12/21/2020 20:54	WG1594013

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic, Total Recoverable	1.26	I	0.250	2.00	1	12/18/2020 16:58	WG1594017
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/18/2020 16:58	WG1594017
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/18/2020 16:58	WG1594017
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/18/2020 16:58	WG1594017

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 19:48	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:48	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 19:48	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 19:48	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 19:48	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 19:48	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 19:48	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 19:48	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 19:48	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 19:48	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 19:48	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 19:48	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 19:48	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 19:48	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 19:48	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 19:48	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 19:48	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 19:48	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 19:48	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 19:48	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 19:48	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 19:48	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 19:48	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 19:48	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 19:48	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 19:48	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 19:48	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 19:48	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 19:48	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 19:48	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 19:48	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 19:48	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 19:48	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 19:48	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 19:48	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 19:48	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 19:48	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 19:48	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 19:48	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 19:48	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 19:48	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 19:48	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 19:48	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 19:48	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 19:48	WG1587929
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/07/2020 19:48*	WG1587929
(S) Toluene-d8	*111*			*80.0-120*		*12/07/2020 19:48*	WG1587929
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*12/07/2020 19:48*	WG1587929

EDB / DBCP by Method 8011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200	1	12/11/2020 23:09	WG1589548
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/11/2020 23:09	WG1589548

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500	1	12/07/2020 15:39	WG1587929
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:39	WG1587929
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/07/2020 15:39	WG1587929
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/07/2020 15:39	WG1587929
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/07/2020 15:39	WG1587929
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/07/2020 15:39	WG1587929
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/07/2020 15:39	WG1587929
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/07/2020 15:39	WG1587929
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/07/2020 15:39	WG1587929
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/07/2020 15:39	WG1587929
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/07/2020 15:39	WG1587929
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/07/2020 15:39	WG1587929
2-Hexanone	0.757	U	0.757	5.00	1	12/07/2020 15:39	WG1587929
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/07/2020 15:39	WG1587929
Acetone	1.05	U	1.05	25.0	1	12/07/2020 15:39	WG1587929
Acrylonitrile	0.873	U	0.873	5.00	1	12/07/2020 15:39	WG1587929
Benzene	0.0896	U	0.0896	0.500	1	12/07/2020 15:39	WG1587929
Bromochloromethane	0.145	U	0.145	0.500	1	12/07/2020 15:39	WG1587929
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/07/2020 15:39	WG1587929
Bromoform	0.186	U	0.186	0.500	1	12/07/2020 15:39	WG1587929
Bromomethane	0.157	U	0.157	2.50	1	12/07/2020 15:39	WG1587929
Carbon disulfide	0.101	U	0.101	0.500	1	12/07/2020 15:39	WG1587929
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/07/2020 15:39	WG1587929
Chlorobenzene	0.140	U	0.140	0.500	1	12/07/2020 15:39	WG1587929
Chloroethane	0.141	U	0.141	2.50	1	12/07/2020 15:39	WG1587929
Chloroform	0.0860	U	0.0860	0.500	1	12/07/2020 15:39	WG1587929
Chloromethane	0.153	U	0.153	1.25	1	12/07/2020 15:39	WG1587929
Dibromochloromethane	0.128	U	0.128	0.500	1	12/07/2020 15:39	WG1587929
Dibromomethane	0.117	U	0.117	0.500	1	12/07/2020 15:39	WG1587929
Ethylbenzene	0.158	U	0.158	0.500	1	12/07/2020 15:39	WG1587929
Iodomethane	0.377	U	0.377	10.0	1	12/07/2020 15:39	WG1587929
Methylene Chloride	1.07	U	1.07	2.50	1	12/07/2020 15:39	WG1587929
Styrene	0.117	U	0.117	0.500	1	12/07/2020 15:39	WG1587929
Tetrachloroethene	0.199	U	0.199	0.500	1	12/07/2020 15:39	WG1587929
Toluene	0.412	U	0.412	0.500	1	12/07/2020 15:39	WG1587929
Trichloroethene	0.153	U	0.153	0.500	1	12/07/2020 15:39	WG1587929
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/07/2020 15:39	WG1587929
Vinyl acetate	0.645	U	0.645	5.00	1	12/07/2020 15:39	WG1587929
Vinyl chloride	0.118	U	0.118	0.500	1	12/07/2020 15:39	WG1587929
Xylenes, Total	0.316	U	0.316	1.50	1	12/07/2020 15:39	WG1587929
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/07/2020 15:39	WG1587929
cis-1,3-Dichloropropene	0.0976	J U	0.0976	0.500	1	12/07/2020 15:39	WG1587929
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/07/2020 15:39	WG1587929
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/07/2020 15:39	WG1587929
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/07/2020 15:39	WG1587929
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*12/07/2020 15:39*	WG1587929
(S) Toluene-d8	*112*			*80.0-120*		*12/07/2020 15:39*	WG1587929
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*12/07/2020 15:39*	WG1587929

Method Blank (MB)

(MB) R3601995-1 12/08/20 17:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	2.82	U	2.82	10.0

L1291970-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1291970-01 12/08/20 17:42 • (DUP) R3601995-3 12/08/20 17:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	697	705	1	1.14		5

L1292359-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1292359-02 12/08/20 17:42 • (DUP) R3601995-4 12/08/20 17:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	11000	10800	1	1.16		5

Laboratory Control Sample (LCS)

(LCS) R3601995-2 12/08/20 17:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8200	93.2	77.4-123	

Method Blank (MB)

(MB) R3602265-1 12/09/20 06:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	2.82	U	2.82	10.0

L1291809-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1291809-02 12/09/20 06:00 • (DUP) R3602265-3 12/09/20 06:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	633	643	1	1.57		5

L1292373-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1292373-02 12/09/20 06:00 • (DUP) R3602265-4 12/09/20 06:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1670	1690	1	0.833		5

Laboratory Control Sample (LCS)

(LCS) R3602265-2 12/09/20 06:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8790	99.9	77.4-123	

Method Blank (MB)

(MB) R3602693-1 12/10/20 13:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	9.00	!	2.82	10.0

L1291962-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-26 12/10/20 13:40 • (DUP) R3602693-3 12/10/20 13:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	183	179	1	2.21		5

L1294757-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1294757-01 12/10/20 13:40 • (DUP) R3602693-4 12/10/20 13:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	457	453	1	0.879		5

Laboratory Control Sample (LCS)

(LCS) R3602693-2 12/10/20 13:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8750	99.4	77.4-123	

Method Blank (MB)

(MB) R3601509-1 12/04/20 01:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.306		0.0519	1.00
Nitrate	0.0319		0.0227	0.100

L1291962-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-01 12/04/20 04:44 • (DUP) R3601509-5 12/04/20 04:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.27	5.52	1	4.57		20
Nitrate	0.389	0.417	1	6.80		20

Laboratory Control Sample (LCS)

(LCS) R3601509-2 12/04/20 01:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.7	102	90.0-110	
Nitrate	8.00	8.29	104	90.0-110	

L1291962-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-03 12/04/20 02:21 • (MS) R3601509-3 12/04/20 02:34 • (MSD) R3601509-4 12/04/20 02:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	4.52	54.9	55.1	101	101	1	80.0-120			0.366	20
Nitrate	5.00	0.377	5.56	5.57	104	104	1	80.0-120			0.182	20

Method Blank (MB)

(MB) R3601062-1 12/04/20 16:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.0519	U	0.0519	1.00
Nitrate	0.0227	U	0.0227	0.100

L1291962-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-15 12/04/20 18:42 • (DUP) R3601062-4 12/04/20 18:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.00	1.97	1	1.48		20
Nitrate	0.585	0.583	1	0.360		20

L1292782-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1292782-05 12/04/20 23:13 • (DUP) R3601062-7 12/04/20 23:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.52	1.53	1	0.727		20
Nitrate	0.0227	0.0227	1	0.000	U	20

Laboratory Control Sample (LCS)

(LCS) R3601062-3 12/04/20 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.2	97.9	90.0-110	
Nitrate	8.00	7.87	98.4	90.0-110	

L1291962-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-17 12/04/20 19:50 • (MS) R3601062-5 12/04/20 20:07 • (MSD) R3601062-6 12/04/20 20:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.70	52.2	52.8	101	102	1	80.0-120			1.11	20
Nitrate	5.00	0.612	5.68	5.74	101	103	1	80.0-120			0.983	20

L1292782-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1292782-06 12/05/20 04:20 • (MS) R3601062-8 12/05/20 00:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	112	64.0	0.000	1	80.0-120	J
Nitrate	5.00	0.0227	4.98	99.7	1	80.0-120	

Method Blank (MB)

(MB) R3600774-1 12/05/20 09:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.263		0.0519	1.00
Nitrate	0.0227	U	0.0227	0.100

L1292690-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1292690-01 12/05/20 17:33 • (DUP) R3600774-3 12/05/20 17:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.71	6.79	1	1.15		20
Nitrate	0.227	0.234	1	2.97		20

L1291962-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-24 12/05/20 22:51 • (DUP) R3600774-6 12/05/20 23:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.24	1.24	1	0.0304		20
Nitrate	0.134	0.133	1	0.597		20

Laboratory Control Sample (LCS)

(LCS) R3600774-2 12/05/20 09:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.2	98.1	90.0-110	
Nitrate	8.00	7.97	99.7	90.0-110	

L1292623-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1292623-01 12/05/20 18:19 • (MS) R3600774-4 12/05/20 18:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	6.13	55.6	98.9	1	80.0-120	
Nitrate	5.00	0.0227	5.10	100	1	80.0-120	

L1291962-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-26 12/05/20 23:22 • (MS) R3600774-7 12/05/20 23:37 • (MSD) R3600774-8 12/05/20 23:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	14.8	64.9	65.5	100	101	1	80.0-120			0.876	20
Nitrate	5.00	4.45	9.47	9.54	101	102	1	80.0-120			0.658	20

Method Blank (MB)

(MB) R3604096-1 12/15/20 13:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.0519	U	0.0519	1.00

L1291962-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-02 12/15/20 19:46 • (DUP) R3604096-3 12/15/20 20:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11.7	11.8	1	0.983		20

L1294724-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1294724-07 12/16/20 03:18 • (DUP) R3604096-6 12/16/20 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.28	4.27	1	0.126		20

Laboratory Control Sample (LCS)

(LCS) R3604096-2 12/15/20 14:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.5	101	90.0-110	

L1291962-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-04 12/15/20 20:20 • (MS) R3604096-4 12/15/20 20:37 • (MSD) R3604096-5 12/15/20 20:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	21.5	69.5	69.2	96.1	95.4	1	80.0-120			0.469	20

L1294724-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1294724-07 12/16/20 03:18 • (MS) R3604096-7 12/16/20 03:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	4.28	55.5	102	1	80.0-120	

Method Blank (MB)

(MB) R3604547-1 12/17/20 01:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.0519	U	0.0519	1.00

L1291962-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-14 12/17/20 02:12 • (DUP) R3604547-3 12/17/20 02:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.42	8.42	1	0.0475		20

L1295178-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1295178-01 12/17/20 06:50 • (DUP) R3604547-6 12/17/20 07:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.820	0.829	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3604547-2 12/17/20 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.4	101	90.0-110	

L1291962-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-16 12/17/20 02:47 • (MS) R3604547-4 12/17/20 03:04 • (MSD) R3604547-5 12/17/20 03:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	2.74	50.3	50.1	95.1	94.7	1	80.0-120			0.350	20

L1295178-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1295178-01 12/17/20 06:50 • (MS) R3604547-7 12/17/20 07:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.820	53.5	105	1	80.0-120	

Method Blank (MB)

(MB) R3605596-1 12/19/20 22:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.0951		0.0519	1.00

L1291962-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-25 12/19/20 23:21 • (DUP) R3605596-3 12/19/20 23:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.32	5.31	1	0.260		20

L1296003-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1296003-04 12/20/20 06:58 • (DUP) R3605596-7 12/20/20 07:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	734	738	10	0.456		20

Laboratory Control Sample (LCS)

(LCS) R3605596-2 12/19/20 23:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	99.0	90.0-110	

L1295789-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295789-03 12/20/20 00:52 • (MS) R3605596-4 12/20/20 01:10 • (MSD) R3605596-5 12/20/20 01:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	5.12	55.2	55.7	100	101	1	80.0-120			0.848	20

L1295863-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1295863-06 12/20/20 04:21 • (MS) R3605596-6 12/20/20 04:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	40.6	89.7	98.2	1	80.0-120	

Method Blank (MB)

(MB) R3604210-1 12/15/20 20:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	0.0317	U	0.0317	0.100

L1291962-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-06 12/15/20 20:45 • (DUP) R3604210-5 12/15/20 20:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.0317	0.0317	1	0.000	U	10

L1294692-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1294692-02 12/15/20 21:28 • (DUP) R3604210-7 12/15/20 21:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.115	0.0840	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R3604210-2 12/15/20 20:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.97	106	90.0-110	

L1291962-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-05 12/15/20 20:40 • (MS) R3604210-3 12/15/20 20:41 • (MSD) R3604210-4 12/15/20 20:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0317	5.45	5.55	109	111	1	90.0-110		J	1.65	10

L1294691-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1294691-02 12/15/20 21:23 • (MS) R3604210-6 12/15/20 21:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.152	5.68	110	1	90.0-110	

Method Blank (MB)

(MB) R3604420-1 12/17/20 00:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	0.0317	U	0.0317	0.100

L1291962-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-03 12/17/20 00:13 • (DUP) R3604420-5 12/17/20 00:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.0317	0.0317	1	0.000	U	10

L1294825-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1294825-01 12/17/20 00:52 • (DUP) R3604420-7 12/17/20 00:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	9.74	9.93	10	1.94		10

Laboratory Control Sample (LCS)

(LCS) R3604420-2 12/17/20 00:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.54	101	90.0-110	

L1291962-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-02 12/17/20 00:08 • (MS) R3604420-3 12/17/20 00:10 • (MSD) R3604420-4 12/17/20 00:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0317	5.17	5.17	103	103	1	90.0-110			0.135	10

L1294794-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1294794-02 12/17/20 00:48 • (MS) R3604420-6 12/17/20 00:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.0317	4.96	99.2	1	90.0-110	

Method Blank (MB)

(MB) R3605269-1 12/18/20 15:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	0.0317	U	0.0317	0.100

L1291962-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-14 12/18/20 15:56 • (DUP) R3605269-5 12/18/20 15:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.0317	0.0317	1	0.000	U	10

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3605269-7 12/18/20 16:31

Analyte	Original Result	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen		0.0317	1	0.000	U	10

Laboratory Control Sample (LCS)

(LCS) R3605269-2 12/18/20 15:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.81	104	90.0-110	

L1291962-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-13 12/18/20 15:51 • (MS) R3605269-3 12/18/20 15:53 • (MSD) R3605269-4 12/18/20 15:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.0317	5.29	5.29	106	106	1	90.0-110			0.0756	10

Original Sample (OS) • Matrix Spike (MS)

(OS) • (MS) R3605269-6 12/18/20 16:23

Analyte	Spike Amount mg/l	Original Result	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00		5.29	106	1	90.0-110	

Method Blank (MB)

(MB) R3606065-1 12/21/20 18:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	0.0317	U	0.0317	0.100

L1296404-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1296404-06 12/21/20 19:37 • (DUP) R3606065-6 12/21/20 19:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.0317	0.0317	1	0.000	U	10

L1293017-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1293017-01 12/21/20 22:42 • (DUP) R3606065-9 12/21/20 22:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	91.8	92.2	10	0.446		10

Laboratory Control Sample (LCS)

(LCS) R3606065-2 12/21/20 18:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.61	101	90.0-110	

L1295974-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295974-01 12/21/20 19:06 • (MS) R3606065-4 12/21/20 19:07 • (MSD) R3606065-5 12/21/20 19:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.325	5.13	4.99	96.0	93.3	1	90.0-110			2.67	10

L1296404-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1296404-07 12/21/20 19:41 • (MS) R3606065-7 12/21/20 19:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.238	5.22	99.6	1	90.0-110	

Method Blank (MB)

(MB) R3605116-1 12/18/20 11:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	0.0490	U	0.0490	0.200

Laboratory Control Sample (LCS)

(LCS) R3605116-2 12/18/20 11:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.43	114	80.0-120	

L1294918-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294918-03 12/18/20 11:27 • (MS) R3605116-3 12/18/20 11:35 • (MSD) R3605116-4 12/18/20 11:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	3.00	0.0490	3.33	3.39	111	113	1	75.0-125			1.60	20

Method Blank (MB)

(MB) R3604071-1 12/16/20 10:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	0.0490	U	0.0490	0.200

Laboratory Control Sample (LCS)

(LCS) R3604071-2 12/16/20 10:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.03	101	80.0-120	

L1291962-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-13 12/16/20 10:22 • (MS) R3604071-3 12/16/20 10:24 • (MSD) R3604071-4 12/16/20 10:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	3.00	0.0490	3.13	3.13	104	104	1	75.0-125			0.240	20

Method Blank (MB)

(MB) R3603866-6 12/15/20 23:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	1.70	U	1.70	5.00
Cadmium	0.700	U	0.700	2.00
Chromium	1.40	U	1.40	10.0
Cobalt	2.30	U	2.30	10.0
Copper	5.30	U	5.30	10.0
Iron	14.1	U	14.1	100
Lead	1.90	U	1.90	5.00
Nickel	4.90	U	4.90	10.0
Selenium	7.40	U	7.40	10.0
Silver	2.80	U	2.80	5.00
Sodium	0.0304		0.0111	1.00
Vanadium	2.40	U	2.40	20.0
Zinc	37.9	!	5.90	50.0

Laboratory Control Sample (LCS)

(LCS) R3603866-2 12/15/20 20:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	996	99.6	80.0-120	
Cadmium	1000	941	94.1	80.0-120	
Chromium	1000	954	95.4	80.0-120	
Cobalt	1000	974	97.4	80.0-120	
Copper	1000	980	98.0	80.0-120	
Iron	10000	10000	100	80.0-120	
Lead	1000	954	95.4	80.0-120	
Nickel	1000	961	96.1	80.0-120	
Selenium	1000	951	95.1	80.0-120	
Silver	200	191	95.4	80.0-120	
Sodium	10.0	9.81	98.1	80.0-120	
Vanadium	1000	992	99.2	80.0-120	
Zinc	1000	944	94.4	80.0-120	

L1291962-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-02 12/15/20 20:04 • (MS) R3603866-4 12/15/20 20:10 • (MSD) R3603866-5 12/15/20 20:12

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	31400	1050	1030	101	99.6	1	75.0-125			1.74	20
Cadmium	1000	261	971	954	97.1	95.4	1	75.0-125			1.82	20
Chromium	1000	908	987	948	98.7	94.8	1	75.0-125			4.02	20
Cobalt	1000	2.30	995	978	99.5	97.8	1	75.0-125			1.71	20
Copper	1000	2650	1010	966	101	96.6	1	75.0-125			4.14	20
Iron	10000	131000	10300	10000	102	99.1	1	75.0-125			2.50	20
Lead	1000	1.90	974	956	97.4	95.6	1	75.0-125			1.89	20
Nickel	1000	1120	985	965	98.5	96.5	1	75.0-125			2.04	20
Selenium	1000	1960	982	961	98.2	96.1	1	75.0-125			2.20	20
Silver	200	2.80	200	190	99.8	95.2	1	75.0-125			4.69	20
Sodium	10.0	4.77	14.6	14.3	97.9	94.8	1	75.0-125			2.17	20
Vanadium	1000	1780	1020	992	102	99.2	1	75.0-125			2.54	20
Zinc	1000	7160	969	948	96.1	94.1	1	75.0-125			2.14	20

Method Blank (MB)

(MB) R3604371-1 12/16/20 17:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	1.70	U	1.70	5.00
Cadmium	0.700	U	0.700	2.00
Chromium	1.40	U	1.40	10.0
Cobalt	2.30	U	2.30	10.0
Copper	5.30	U	5.30	10.0
Iron	14.1	U	14.1	100
Lead	1.90	U	1.90	5.00
Nickel	4.90	U	4.90	10.0
Selenium	7.40	U	7.40	10.0
Silver	2.80	U	2.80	5.00
Sodium	0.123		0.0111	1.00
Vanadium	2.40	U	2.40	20.0
Zinc	5.90	U	5.90	50.0

Laboratory Control Sample (LCS)

(LCS) R3604371-2 12/16/20 17:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	993	99.3	80.0-120	
Cadmium	1000	941	94.1	80.0-120	
Chromium	1000	954	95.4	80.0-120	
Cobalt	1000	978	97.8	80.0-120	
Copper	1000	962	96.2	80.0-120	
Iron	10000	9890	98.9	80.0-120	
Lead	1000	959	95.9	80.0-120	
Nickel	1000	968	96.8	80.0-120	
Selenium	1000	955	95.5	80.0-120	
Silver	200	188	94.2	80.0-120	
Sodium	10.0	9.89	98.9	80.0-120	
Vanadium	1000	991	99.1	80.0-120	
Zinc	1000	958	95.8	80.0-120	

L1295377-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295377-03 12/16/20 17:43 • (MS) R3604371-4 12/16/20 17:48 • (MSD) R3604371-5 12/16/20 17:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	77.6	1070	1070	98.9	98.8	1	75.0-125			0.0605	20
Cadmium	1000	0.700	942	946	94.2	94.6	1	75.0-125			0.334	20
Chromium	1000	1.40	956	982	95.6	98.2	1	75.0-125			2.75	20
Cobalt	1000	18.1	995	1000	97.7	98.2	1	75.0-125			0.439	20
Copper	1000	5.30	962	996	96.2	99.6	1	75.0-125			3.48	20
Iron	10000	13900	24800	24800	109	109	1	75.0-125			0.0580	20
Lead	1000	2.10	955	957	95.5	95.7	1	75.0-125			0.161	20
Nickel	1000	11.5	978	980	96.7	96.9	1	75.0-125			0.243	20
Selenium	1000	7.40	974	970	97.4	97.0	1	75.0-125			0.439	20
Silver	200	2.80	189	194	94.4	97.1	1	75.0-125			2.77	20
Sodium	10.0	18.7	28.3	28.5	96.1	97.2	1	75.0-125			0.400	20
Vanadium	1000	2.40	991	985	99.1	98.5	1	75.0-125			0.659	20
Zinc	1000	15.4	962	969	94.6	95.4	1	75.0-125			0.786	20

Method Blank (MB)

(MB) R3604915-1 12/17/20 20:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	1.70	I U	1.70	5.00
Cadmium	0.700	U	0.700	2.00
Chromium	1.40	U	1.40	10.0
Cobalt	2.30	U	2.30	10.0
Copper	5.30	U	5.30	10.0
Iron	14.1	U	14.1	100
Lead	1.90	U	1.90	5.00
Nickel	4.90	U	4.90	10.0
Selenium	7.40	U	7.40	10.0
Silver	2.80	U	2.80	5.00
Sodium	0.0389		0.0111	1.00
Vanadium	2.40	U	2.40	20.0
Zinc	9.98	I	5.90	50.0

Laboratory Control Sample (LCS)

(LCS) R3604915-2 12/17/20 20:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	940	94.0	80.0-120	
Cadmium	1000	913	91.3	80.0-120	
Chromium	1000	918	91.8	80.0-120	
Cobalt	1000	949	94.9	80.0-120	
Copper	1000	955	95.5	80.0-120	
Iron	10000	9630	96.3	80.0-120	
Lead	1000	938	93.8	80.0-120	
Nickel	1000	948	94.8	80.0-120	
Selenium	1000	924	92.4	80.0-120	
Silver	200	182	91.1	80.0-120	
Sodium	10.0	9.69	96.9	80.0-120	
Vanadium	1000	970	97.0	80.0-120	
Zinc	1000	928	92.8	80.0-120	

L1291962-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-16 12/17/20 21:00 • (MS) R3604915-4 12/17/20 21:06 • (MSD) R3604915-5 12/17/20 21:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	12400	943	959	93.0	94.7	1	75.0-125			1.73	20
Cadmium	1000	205	906	918	90.6	91.8	1	75.0-125			1.41	20
Chromium	1000	1190	908	924	90.8	92.4	1	75.0-125			1.74	20
Cobalt	1000	146	943	955	94.3	95.5	1	75.0-125			1.29	20
Copper	1000	3380	950	960	95.0	96.0	1	75.0-125			1.00	20
Iron	10000	189000	9820	9880	96.3	96.9	1	75.0-125			0.677	20
Lead	1000	1.90	935	947	93.5	94.7	1	75.0-125			1.28	20
Nickel	1000	2090	944	956	94.1	95.3	1	75.0-125			1.27	20
Selenium	1000	7.40	915	936	91.5	93.6	1	75.0-125			2.27	20
Silver	200	2.80	180	184	90.1	91.8	1	75.0-125			1.92	20
Sodium	10.0	1.67	11.2	11.3	94.9	95.9	1	75.0-125			0.903	20
Vanadium	1000	2.40	967	975	96.7	97.5	1	75.0-125			0.842	20
Zinc	1000	15000	934	944	91.9	92.9	1	75.0-125			1.02	20

Method Blank (MB)

(MB) R3606028-6 12/21/20 20:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	1.70	U	1.70	5.00
Cadmium	0.700	U	0.700	2.00
Chromium	1.40	U	1.40	10.0
Cobalt	2.30	U	2.30	10.0
Copper	5.30	U	5.30	10.0
Iron	14.1	U	14.1	100
Lead	1.90	U	1.90	5.00
Nickel	4.90	U	4.90	10.0
Selenium	7.40	U	7.40	10.0
Silver	2.80	U	2.80	5.00
Sodium	0.0111	U	0.0111	1.00
Vanadium	2.40	U	2.40	20.0
Zinc	5.90	U	5.90	50.0

Laboratory Control Sample (LCS)

(LCS) R3606028-7 12/21/20 20:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	973	97.3	80.0-120	
Cadmium	1000	947	94.7	80.0-120	
Chromium	1000	974	97.4	80.0-120	
Cobalt	1000	971	97.1	80.0-120	
Copper	1000	952	95.2	80.0-120	
Iron	10000	9490	94.9	80.0-120	
Lead	1000	951	95.1	80.0-120	
Nickel	1000	982	98.2	80.0-120	
Selenium	1000	976	97.6	80.0-120	
Silver	200	187	93.7	80.0-120	
Sodium	10.0	9.35	93.5	80.0-120	
Vanadium	1000	993	99.3	80.0-120	
Zinc	1000	975	97.5	80.0-120	

L1291962-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-25 12/21/20 20:40 • (MS) R3606028-9 12/21/20 20:46 • (MSD) R3606028-10 12/21/20 20:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	13500	994	991	98.1	97.7	1	75.0-125			0.349	20
Cadmium	1000	0.700	961	954	96.1	95.4	1	75.0-125			0.651	20
Chromium	1000	2620	982	964	97.9	96.1	1	75.0-125			1.88	20
Cobalt	1000	2.30	983	978	98.3	97.8	1	75.0-125			0.489	20
Copper	1000	2620	959	945	95.9	94.5	1	75.0-125			1.44	20
Iron	10000	359000	10000	9880	96.4	95.2	1	75.0-125			1.22	20
Lead	1000	1.90	962	957	96.2	95.7	1	75.0-125			0.475	20
Nickel	1000	897	992	990	99.2	99.0	1	75.0-125			0.216	20
Selenium	1000	7.40	984	978	98.4	97.8	1	75.0-125			0.648	20
Silver	200	22.8	189	186	94.5	93.0	1	75.0-125			1.56	20
Sodium	10.0	4.56	13.9	13.9	93.8	93.0	1	75.0-125			0.540	20
Vanadium	1000	625	1010	1010	101	101	1	75.0-125			0.168	20
Zinc	1000	22600	1000	994	98.0	97.1	1	75.0-125			0.955	20

Method Blank (MB)

(MB) R3603314-1 12/14/20 12:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	0.754	U	0.754	2.00
Arsenic	0.250	U	0.250	2.00
Beryllium	0.120	U	0.120	2.00
Thallium	0.190	U	0.190	2.00

Laboratory Control Sample (LCS)

(LCS) R3603314-2 12/14/20 13:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	58.1	116	80.0-120	
Arsenic	50.0	51.4	103	80.0-120	
Beryllium	50.0	48.9	97.8	80.0-120	
Thallium	50.0	48.2	96.4	80.0-120	

L1291962-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1291962-01 12/14/20 13:49 • (MS) R3603314-4 12/14/20 13:56 • (MSD) R3603314-5 12/14/20 13:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	0.754	59.1	58.4	118	117	1	75.0-125			1.18	20
Arsenic	50.0	113	47.2	48.0	94.4	96.1	1	75.0-125			1.75	20
Beryllium	50.0	80.4	49.0	49.4	98.0	98.7	1	75.0-125			0.680	20
Thallium	50.0	42.6	49.6	50.6	99.2	101	1	75.0-125			1.96	20

Method Blank (MB)

(MB) R3604178-1 12/16/20 13:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	0.754	U	0.754	2.00
Arsenic	0.250	U	0.250	2.00
Beryllium	0.120	U	0.120	2.00
Thallium	0.190	U	0.190	2.00

Laboratory Control Sample (LCS)

(LCS) R3604178-2 12/16/20 13:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	49.6	99.2	80.0-120	
Arsenic	50.0	48.8	97.6	80.0-120	
Beryllium	50.0	48.3	96.7	80.0-120	
Thallium	50.0	44.5	89.1	80.0-120	

L1295360-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295360-01 12/16/20 13:49 • (MS) R3604178-4 12/16/20 13:55 • (MSD) R3604178-5 12/16/20 13:58

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	0.754	50.1	49.2	100	98.4	1	75.0-125			1.81	20
Arsenic	50.0	1.41	50.5	49.7	98.2	96.6	1	75.0-125			1.62	20
Beryllium	50.0	0.120	47.5	48.6	94.9	97.2	1	75.0-125			2.39	20
Thallium	50.0	0.250	43.6	44.1	86.6	87.6	1	75.0-125			1.11	20

Method Blank (MB)

(MB) R3604462-1 12/17/20 00:02

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	0.754	U	0.754	2.00
Arsenic	0.250	U	0.250	2.00
Beryllium	0.120	U	0.120	2.00
Thallium	0.190	U	0.190	2.00

Laboratory Control Sample (LCS)

(LCS) R3604462-2 12/17/20 00:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	48.3	96.6	80.0-120	
Arsenic	50.0	48.1	96.3	80.0-120	
Beryllium	50.0	49.8	99.6	80.0-120	
Thallium	50.0	47.7	95.3	80.0-120	

L1295688-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295688-01 12/17/20 00:09 • (MS) R3604462-4 12/17/20 00:15 • (MSD) R3604462-5 12/17/20 00:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	0.754	48.1	48.7	96.2	97.4	1	75.0-125			1.17	20
Arsenic	50.0	0.250	47.8	48.3	95.3	96.2	1	75.0-125			0.991	20
Beryllium	50.0	0.120	48.6	51.8	97.2	104	1	75.0-125			6.31	20
Thallium	50.0	0.248	46.3	47.7	92.2	94.8	1	75.0-125			2.83	20

Method Blank (MB)

(MB) R3605272-1 12/18/20 16:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	0.754	U	0.754	2.00
Arsenic	0.250	U	0.250	2.00
Beryllium	0.120	U	0.120	2.00
Thallium	0.190	U	0.190	2.00

Laboratory Control Sample (LCS)

(LCS) R3605272-2 12/18/20 16:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	52.1	104	80.0-120	
Arsenic	50.0	50.1	100	80.0-120	
Beryllium	50.0	53.0	106	80.0-120	
Thallium	50.0	47.8	95.6	80.0-120	

L1296160-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1296160-07 12/18/20 16:41 • (MS) R3605272-4 12/18/20 16:48 • (MSD) R3605272-5 12/18/20 16:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	0.754	52.1	52.0	104	104	1	75.0-125			0.114	20
Arsenic	50.0	0.630	51.0	50.1	101	99.0	1	75.0-125			1.78	20
Beryllium	50.0	0.120	53.4	52.4	107	105	1	75.0-125			1.84	20
Thallium	50.0	0.216	51.1	51.4	102	102	1	75.0-125			0.632	20

Method Blank (MB)

(MB) R3601303-3 12/07/20 13:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500
1,1-Dichloroethane	0.114	U	0.114	0.500
1,1-Dichloroethene	0.188	U	0.188	0.500
1,2,3-Trichloropropane	0.247	U	0.247	2.50
1,2-Dichlorobenzene	0.101	U	0.101	0.500
1,2-Dichloroethane	0.108	U	0.108	0.500
1,2-Dichloropropane	0.190	U	0.190	0.500
1,4-Dichlorobenzene	0.121	U	0.121	0.500
2-Butanone (MEK)	1.28	U	1.28	5.00
2-Hexanone	0.757	U	0.757	5.00
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00
Acetone	1.05	U	1.05	25.0
Acrylonitrile	0.873	U	0.873	5.00
Benzene	0.0896	U	0.0896	0.500
Bromochloromethane	0.145	U	0.145	0.500
Bromodichloromethane	0.0800	U	0.0800	0.500
Bromoform	0.186	U	0.186	0.500
Bromomethane	0.157	U	0.157	2.50
Carbon disulfide	0.101	U	0.101	0.500
Carbon tetrachloride	0.159	U	0.159	0.500
Chlorobenzene	0.140	U	0.140	0.500
Chlorodibromomethane	0.128	U	0.128	0.500
Chloroethane	0.141	U	0.141	2.50
Chloroform	0.0860	U	0.0860	0.500
Chloromethane	0.153	U	0.153	1.25
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500
Dibromomethane	0.117	U	0.117	0.500
Ethylbenzene	0.158	U	0.158	0.500
Iodomethane	0.377	U	0.377	10.0
Methylene Chloride	1.07	U	1.07	2.50
Styrene	0.117	U	0.117	0.500
Tetrachloroethene	0.199	U	0.199	0.500
Toluene	0.412	U	0.412	0.500
trans-1,2-Dichloroethene	0.152	U	0.152	0.500
trans-1,3-Dichloropropene	0.222	U	0.222	0.500
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00

Method Blank (MB)

(MB) R3601303-3 12/07/20 13:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	0.153	U	0.153	0.500
Trichlorofluoromethane	0.130	U	0.130	2.50
Vinyl acetate	0.645	U	0.645	5.00
Vinyl chloride	0.118	U	0.118	0.500
Xylenes, Total	0.316	U	0.316	1.50
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*
(S) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*110*			*77.0-126*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3601303-1 12/07/20 12:18 • (LCSD) R3601303-2 12/07/20 12:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	5.00	5.82	5.26	116	105	75.0-125			10.1	20
1,1,1-Trichloroethane	5.00	5.09	4.42	102	88.4	73.0-124			14.1	20
1,1,2,2-Tetrachloroethane	5.00	4.48	4.08	89.6	81.6	65.0-130			9.35	20
1,1,2-Trichloroethane	5.00	5.72	5.05	114	101	80.0-120			12.4	20
1,1-Dichloroethane	5.00	4.46	4.08	89.2	81.6	70.0-126			8.90	20
1,1-Dichloroethene	5.00	4.76	4.41	95.2	88.2	71.0-124			7.63	20
1,2,3-Trichloropropane	5.00	4.59	4.20	91.8	84.0	73.0-130			8.87	20
1,2-Dichlorobenzene	5.00	5.42	4.97	108	99.4	79.0-121			8.66	20
1,2-Dichloroethane	5.00	4.40	3.94	88.0	78.8	70.0-128			11.0	20
1,2-Dichloropropane	5.00	4.55	4.37	91.0	87.4	77.0-125			4.04	20
1,4-Dichlorobenzene	5.00	5.13	4.75	103	95.0	79.0-120			7.69	20
2-Butanone (MEK)	25.0	20.1	19.8	80.4	79.2	44.0-160			1.50	20
2-Hexanone	25.0	22.7	20.9	90.8	83.6	67.0-149			8.26	20
4-Methyl-2-pentanone (MIBK)	25.0	20.2	18.0	80.8	72.0	68.0-142			11.5	20
Acetone	25.0	24.6	28.0	98.4	112	19.0-160			12.9	27
Acrylonitrile	25.0	24.6	21.8	98.4	87.2	55.0-149			12.1	20
Benzene	5.00	5.02	4.66	100	93.2	70.0-123			7.44	20
Bromochloromethane	5.00	5.27	4.72	105	94.4	76.0-122			11.0	20
Bromodichloromethane	5.00	4.61	4.20	92.2	84.0	75.0-120			9.31	20
Bromoform	5.00	5.97	5.46	119	109	68.0-132			8.92	20
Bromomethane	5.00	4.89	4.00	97.8	80.0	10.0-160			20.0	25
Carbon disulfide	5.00	4.94	4.48	98.8	89.6	61.0-128			9.77	20
Carbon tetrachloride	5.00	4.63	4.16	92.6	83.2	68.0-126			10.7	20
Chlorobenzene	5.00	5.91	5.32	118	106	80.0-121			10.5	20
Chlorodibromomethane	5.00	5.27	4.73	105	94.6	77.0-125			10.8	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3601303-1 12/07/20 12:18 • (LCSD) R3601303-2 12/07/20 12:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	5.00	4.85	4.33	97.0	86.6	47.0-150			11.3	20
Chloroform	5.00	5.06	4.64	101	92.8	73.0-120			8.66	20
Chloromethane	5.00	4.58	4.03	91.6	80.6	41.0-142			12.8	20
cis-1,2-Dichloroethene	5.00	5.33	4.78	107	95.6	73.0-120			10.9	20
cis-1,3-Dichloropropene	5.00	4.51	3.96	90.2	79.2	80.0-123		J	13.0	20
Dibromomethane	5.00	4.82	4.71	96.4	94.2	80.0-120			2.31	20
Ethylbenzene	5.00	5.70	5.30	114	106	79.0-123			7.27	20
Iodomethane	25.0	23.5	20.1	94.0	80.4	33.0-147			15.6	26
Methylene Chloride	5.00	4.72	4.14	94.4	82.8	67.0-120			13.1	20
Styrene	5.00	5.67	5.05	113	101	73.0-130			11.6	20
Tetrachloroethene	5.00	5.76	5.27	115	105	72.0-132			8.88	20
Toluene	5.00	5.24	4.73	105	94.6	79.0-120			10.2	20
trans-1,2-Dichloroethene	5.00	4.94	4.53	98.8	90.6	73.0-120			8.66	20
trans-1,3-Dichloropropene	5.00	4.92	4.31	98.4	86.2	78.0-124			13.2	20
trans-1,4-Dichloro-2-butene	5.00	1.32	1.26	26.4	25.2	33.0-144	J	J	4.65	20
Trichloroethene	5.00	5.55	5.12	111	102	78.0-124			8.06	20
Trichlorofluoromethane	5.00	4.56	3.87	91.2	77.4	59.0-147			16.4	20
Vinyl acetate	25.0	18.8	17.0	75.2	68.0	11.0-160			10.1	20
Vinyl chloride	5.00	4.72	4.15	94.4	83.0	67.0-131			12.9	20
Xylenes, Total	15.0	17.4	15.6	116	104	79.0-123			10.9	20
(S) 1,2-Dichloroethane-d4				*95.8*	*93.6*	*70.0-130*				
(S) Toluene-d8				*110*	*111*	*80.0-120*				
(S) 4-Bromofluorobenzene				*108*	*109*	*77.0-126*				

Method Blank (MB)

(MB) R3600854-1 12/05/20 13:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	0.00240	U	0.00240	0.0100
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200

L1291083-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1291083-04 12/05/20 14:15 • (DUP) R3600854-3 12/05/20 14:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	0.00240	0.00240	1	0.000	U	20
1,2-Dibromo-3-Chloropropane	0.00430	0.00430	1	0.000	U	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3600854-4 12/05/20 16:21 • (LCSD) R3600854-5 12/05/20 18:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.257	0.258	103	103	60.0-140			0.388	20
1,2-Dibromo-3-Chloropropane	0.250	0.230	0.235	92.0	94.0	60.0-140			2.15	20

L1291083-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1291083-05 12/05/20 13:50 • (MS) R3600854-2 12/05/20 13:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	0.00240	0.103	103	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.100	0.00430	0.0908	90.8	1	72.0-148	

Method Blank (MB)

(MB) R3602756-1 12/11/20 21:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylene Dibromide	0.00240	U	0.00240	0.0100
1,2-Dibromo-3-Chloropropane	0.00430	U	0.00430	0.0200

L1291962-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1291962-13 12/11/20 22:05 • (DUP) R3602756-3 12/11/20 21:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	0.00240	0.00240	1	0.000	U	20
1,2-Dibromo-3-Chloropropane	0.00430	0.00430	1	0.000	U	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3602756-4 12/12/20 00:13 • (LCSD) R3602756-5 12/12/20 02:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.250	0.266	0.268	106	107	60.0-140			0.749	20
1,2-Dibromo-3-Chloropropane	0.250	0.224	0.235	89.6	94.0	60.0-140			4.79	20

L1291962-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L1291962-15 12/11/20 21:39 • (MS) R3602756-2 12/11/20 21:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.100	0.00240	0.108	108	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.100	0.00430	0.0874	87.4	1	72.0-148	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	The value is outside laboratory established criteria.
U	Indicates the compound was analyzed for but not detected above the method detection limit.
V	Indicates the analyte was detected in both the sample and method blank.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1

Pace Analytical National 1606 E. Brazos Street Suite D Victoria, TX, 77901

Texas	T104704328-20-18

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): DANNY ARMOUR

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # U251562

Tab F019

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: TB 11-19-20

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAtCP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-1A		GW				10		X		X	X	X	X		X			
MW-1B		GW				3	X		X		X							
MW-2AR		GW				10		X		X	X	X	X		X			
MW-2B		GW				3	X		X		X							
MW-3A	G	GW		12-2-20	1320	10		X		X	X	X	X		X			-01
MW-3B	G	GW		12-2-20	1242	3	X		X		X							-02
MW-4A		GW				10		X		X	X	X	X		X			
MW-4B		GW				3	X		X		X							
MW-5A		GW				10		X		X	X	X	X		X			
MW-5B		GW				3	X		X		X							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 9348 1605 8764 8753

Sample Receipt Checklist
COC Seal Present/Intact: ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	11-19-20	10:30		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.3 °C Bottles Received: 72
	12-2-20	1700		12:3:9
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/3/20 Time: 10**
			Olivia Turn	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

1.5

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected: FL

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): DANNY ARMOUR

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl			
MW-6AR		GW				10		X		X	X	X	X		X			
MW-6BR		GW				3	X		X		X							
MW-7A		GW				10		X		X	X	X	X		X			
MW-7B		GW				3	X		X		X							
MW-8R		GW				10		X		X	X	X	X		X			
MW-9A	G	GW		12-2	1038	10		X		X	X	X	X		X			-03
MW-9B	G	GW		12-2	1001	3	X		X		X							-04
MW-11A	G	GW		12-2	0927	10		X		X	X	X	X		X			-05
MW-11B	G	GW		12-2	0851	3	X		X		X							-06
MW-14A	G	GW		12-2	1204	10		X		X	X	X	X		X			-07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	11-19-20	10:30	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12-2-20	1700	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
2 / Meoh / TBR

Temp °C 12.3=.9 Bottles Received: 72

Date: 12/3/20 Time: 10:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Chain of Custody Page ___ of ___

Pace Analytical
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1291567

Table #

Acctnum: WMVISFL
Template: T177993
Prelogin: P811133
PM: 616 - Stacy Kennedy
PB: TB 11-19-20
Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): Danny Armour

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-14B	G	GW		12-2	1122	3	X		X		X							-08
MW-15A	G	GW		12-2	0816	10		X		X	X	X	X		X			-09
MW-15B	G	GW		12-2	0737	3	X		X		X							-10
Equipment Blank	G	GW		12-2	1355	7		X		X	X	X	X					-11
TRIP BLANK	G	GW		12-2	—	2								X				-12
		GW				10		X		X	X	X	X		X			

Chain of Custody Page ___ of ___

Pace Analytical®
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1291467

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: TB 11-19-20

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	11-19-20	10:30		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	12-2-20	1700		1.0-3.9 72
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				12/3/20 1000

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Vista 5110 US Hwy 301 South Baldwin, FL 32234	Billing Information: jhill16@wm.com PO BOX 6700 Portland, OR 97228-6700	Pres Chk
Report to: Eric Parker	Email To: eparker1@wm.com;efoeller@wm.com;kguilbea	
Project Description: Vista-Semiannual GW Parameters June Dec	City/State Collected:	Please Circle: PT MT CT ET
Phone: 904-562-9755	Client Project # 200	Lab Project # WMVISFL-00003
Collected by (print): DANNY ARMOUR	Site/Facility ID # FL26	P.O. #
Collected by (signature): [signature] Immediately Packed on Ice N ___ Y X	*Rush?* (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Quote # Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1291562

Table #

Acctnum: WMVISFL
Template: T177993
Prelogin: P811133
PM: 616 - Stacy Kennedy
PB: TG 11-19-20
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-1A	G	GW		12-3	1133	10		X		X	X	X	X		X			-13
MW-1B	G	GW		12-3	1101	3	X		X		X							-14
MW-2AR		GW				10		X		X	X	X	X		X			
MW-2B		GW				3	X		X		X							
MW-3A		GW				10		X		X	X	X	X		X			
MW-3B		GW				3	X		X		X							
MW-4A	G	GW		12-3	0800	10 7pm		X		X	X	X	X		X			-15
MW-4B	G	GW		12-3	0722	3	X		X		X							-16
MW-5A	G	GW		12-3	0911	10		X		X	X	X	X		X			-17
MW-5B	G	GW		12-3	0834	3	X		X		X							-18

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ________

Remarks:Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ________

Tracking # 9348 1605 8775

Sample Receipt Checklist
COC Seal Present/Intact: _NP _Y _N
COC Signed/Accurate: _Y _N
Bottles arrive intact: _Y _N
Correct bottles used: _Y _N
Sufficient volume sent: _Y _N
If Applicable
VOA Zero Headspace: _Y _N
Preservation Correct/Checked: _Y _N
RAD Screen <0.5 mR/hr: _Y _N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	11-19-20	10:30	[signature]		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: NOT3 15.3=1.3 °C	Bottles Received: 63
[signature]	12-3-20	1700			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12-4-20	Time: 0930
			Kailey Miller		

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): DANNY ARMOUR

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl			
MW-6AR	G	GW		12-3	1255	10		X		X	X	X	X		X			-19
MW-6BR	G	GW		12-3	1212	3	X		X		X							-20
MW-7A	G	GW		12-3	1027	10		X		X	X	X	X		X			-21
MW-7B	G	GW		12-3	0944	3	X		X		X							-22
MW-8R		GW				10		X		X	X	X	X		X			
MW-9A		GW				10		X		X	X	X	X		X			
MW-9B		GW				3	X		X		X							
MW-11A		GW				10		X		X	X	X	X		X			
MW-11B		GW				3	X		X		X							
MW-14A		GW				10		X		X	X	X	X		X			

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1291967

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: TB 11-19-20

Shipped Via: FedEx Ground

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl MeoH TBR
	11-19-20	10:30		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 15.3=1.3 °C Bottles Received: 63
	12-3-20	1700		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12-4-20 Time: 0930
			Kaleigh Miller	

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: **Eric Parker**

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: **Vista-Semiannual GW Parameters June Dec**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **904-562-9755**

Client Project # **200**

Lab Project # **WMVISFL-00003**

Collected by (print): DANNY ARMOUR

Site/Facility ID # **FL26**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical
National Center for Testing & Innovation

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1291462

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: JL 11-19-20

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-14B		GW				3	X		X		X							
MW-15A		GW				10		X		X	X	X	X		X			
MW-15B		GW				3	X		X		X							
Equipment Blank		GW				7		X		X	X	X	X					
TRIP BLANK	G	GW		12-3	-	2								X				-23
		GW				10		X		X	X	X	X		X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes No HCl MeoH TBR	
	11-19-20	10:30		1	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
	12-3-20	1700		1.5-2.3 63	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			Kelley Miller	12-4-20 0930	

Cole Medley

Login #: L1291962	Client: WMVISFL	Date:12/04/20	Evaluated by:Cole Medley

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received 2 40mlAmb-HCl broken on ID: MW-4A

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions:

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): Danny Armour

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Immediately Packed on Ice N___ Y X

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Mount Juliet, TN 37122
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Phone: 800-767-5859
Fax: 615-758-5859

L1291462
D156

Acctnum: WMVISFL
Template: T177993
Prelogin: P811133
PM: 616 - Stacy Kennedy
PB: TR 11-19-20
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1A		GW				10		X		X	X	X	X		X		
MW-1B		GW				3	X		X		X						
MW-2AR	G	GW		12-4	0838	10		X		X	X	X	X		X		-24
MW-2B	G	GW		12-4	0801	3	X		X		X						-25
MW-3A		GW				10		X		X	X	X	X		X		
MW-3B		GW				3	X		X		X						
MW-4A		GW				10		X		X	X	X	X		X		
MW-4B		GW				3	X		X		X						
MW-5A		GW				10		X		X	X	X	X		X		
MW-5B		GW				3	X		X		X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11-19-20	10:30			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: NB .5+.1=.6 °C Bottles Received: 23	
	12-4-20	1600			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/5 Time: 0725	Hold: Condition: NCF / OK

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: Eric Parker

Email To: eparker1@wm.com;efoeller@wm.com;kgullbea

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 904-562-9755

Client Project # 200

Lab Project # WMVISFL-00003

Collected by (print): DANNY ARMOUR

Site/Facility ID # FL26

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE,NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-6AR		GW				10		X		X	X	X	X		X			
MW-6BR		GW				3	X		X		X							
MW-7A		GW				10		X		X	X	X	X		X			
MW-7B		GW				3	X		X		X							
MW-8R	G	GW		12-4	0722	10		X		X	X	X	X		X			-24
MW-9A		GW				10		X		X	X	X	X		X			
MW-9B		GW				3	X		X		X							
MW-11A		GW				10		X		X	X	X	X		X			
MW-11B		GW				3	X		X		X							
MW-14A		GW				10		X		X	X	X	X		X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: ___UPS ___FedEx ___Courier _____

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11-19-20	10:30	
Relinquished by: (Signature)	Date: 12-4-20	Time: 1600	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
1
HCL / MeoH
TBR

Temp: 1.5 °C .5+2.6 Bottles Received: 23

Date: 12/5 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct Bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen 40.5 mR/hr:		Y N

Chain of Custody Page ___ of ___

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Mount Juliet, TN 37122
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Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1241462

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: TB 11-19-20

Shipped Via: FedEx Ground

Vista

5110 US Hwy 301 South
Baldwin, FL 32234

Billing Information:
jhill16@wm.com
PO BOX 6700
Portland, OR 97228-6700

Pres Chk

Report to: **Eric Parker**

Email To: eparker1@wm.com;efoeller@wm.com;kguilbea

Project Description: **Vista-Semiannual GW Parameters June Dec**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **904-562-9755**

Client Project # **200**

Lab Project # **WMVISFL-00003**

Collected by (print): DANNY ARMOUR

Site/Facility ID # **FL26**

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1251602

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P811133

PM: 616 - Stacy Kennedy

PB: TB 11-19-20

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	CHLORIDE, NITRATE 125mlHDPE-NoPres	Metals - NAICP only 250mlHDPE-HNO3	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-14B		GW				3	X		X		X							
MW-15A		GW				10		X		X	X	X	X		X			
MW-15B		GW				3	X		X		X							
Equipment Blank		GW				7		X		X	X	X	X					
TRIP BLANK	G	GW		12-4	—	~~2~~ 1								X				-27
		GW				10		X		X	X	X	X		X			

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Nitrate = 48 hour holding time.
Sample receiving: samples may be received over multiple days and must be logged to same SDG.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11-19-20	10:30		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 23	
	12-4-20	1600			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/5 Time: 0845	Hold: Condition: NCF / OK

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-03A	SAMPLE ID:		DATE: 12-2-20

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): 34.26	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 92.87		GROUNDWATER ELEVATION (ft NGVD): 58.61		

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: 1300	PURGING ENDED AT: 1320		TOTAL VOLUME PURGED (gallons): 3.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1310	1.60	1.60	0.16	34.58	5.49	23.5	93	1.1	3.11	149		
1313	0.48	2.08	0.16	34.58	5.50	23.5	93	1.2	4.03	150		
1316	0.48	2.56	0.16	34.59	5.48	23.5	93	1.1	4.59	150		
1319	0.48	3.04	0.16	34.59	5.47	23.5	92	1.1	3.52	153	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" = 0.005; 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: 1320	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): 55.20	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	0.1b	BP
	3	G	40ml	NaThio	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	1000ml	HNO3	–		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL
WELL NO:	MW-03B	SAMPLE ID:		DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: 80.3 feet to 85.3 feet	STATIC DEPTH TO WATER (feet):	34.52	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 93.06 GROUNDWATER ELEVATION (ft NGVD): 58.54

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 85.30 feet) + 0.05 gallons = 0.86 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	82.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	82.80	PURGING INITIATED AT:	1222	PURGING ENDED AT:	1242	TOTAL VOLUME PURGED (gallons):	5.80

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
1232	2.90	2.90	0.29	35.34	7.19	23.6	249	1.9	3.66	-92		
1235	0.87	3.77	0.29	35.35	7.23	23.7	249	1.9	3.23	-95		
1238	0.87	4.64	0.29	35.35	7.25	23.6	250	1.9	3.90	-96		
1241	0.87	5.51	0.29	35.35	7.26	23.6	250	1.9	3.53	-97	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:	1242	SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	82.80	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)	DUPLICATE:	Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.29	BP
	3	G	40 ml	NaThio	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-9A	SAMPLE ID:		DATE: 12-8-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 43.05 feet to 63.05 feet	STATIC DEPTH TO WATER (feet): 39.82	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.05 feet − 39.82 feet) X 0.163 gallons/foot = 3.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 63.05 feet) + 0.05 gallons = 0.41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 53.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53.05	PURGING INITIATED AT: 1011	PURGING ENDED AT: 1038		TOTAL VOLUME PURGED (gallons): 6.21

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
1028	3.91	3.91	0.23	40.45	7.07	21.9	123	1.8	3.99	155		
1031	0.69	4.60	0.23	40.46	7.08	21.9	123	1.9	3.82	155		
1034	0.69	5.29	0.23	40.46	7.10	21.8	123	1.9	3.98	155		
1037	0.69	5.98	0.23	40.46	7.10	21.9	123	1.9	3.59	154	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: 1038	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 53.05	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL) per minute	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.23	BP
	3	G	40 ml	NaHSO4	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-9B	SAMPLE ID:		DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 79.3 feet to 89.3 feet	STATIC DEPTH TO WATER (feet): 40.26		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 89.30 feet) + 0.05 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	PURGING INITIATED AT: 0941	PURGING ENDED AT: 1001	TOTAL VOLUME PURGED (gallons): 3.80

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
0951	1.90	1.90	0.19	40.43	7.70	21.4	348	0.1	5.43	175		
0954	0.57	2.47	0.19	40.43	7.70	21.4	348	0.1	5.35	174		
0957	0.57	3.04	0.19	40.43	7.70	21.4	348	0.1	5.49	174		
1000	0.57	3.61	0.19	40.43	7.70	21.5	348	0.1	5.31	173	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: 1001	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 84.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	–	NM	VOA	0.19	BP
	3	G	40ml	NaOH	–		8011		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	1000ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-11A	SAMPLE ID:		DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 32.5 feet to 52.5 feet	STATIC DEPTH TO WATER (feet): 36.33		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (52.50 feet – 36.33 feet) X 0.163 gallons/foot = 3.45 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 52.50 feet) + 0.05 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.50	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0927		TOTAL VOLUME PURGED (gallons): 5.25

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 µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0917	3.45	3.45	0.23	36.94	7.69	21.9	322	2.3	8.55	116		
0920	0.69	4.14	0.23	36.94	7.70	22.1	324	2.3	7.40	116		
0923	0.69	4.83	0.23	36.94	7.72	22.1	325	2.3	7.44	116		
0926	0.69	5.52	0.23	36.95	7.74	21.9	325	2.3	7.95	116	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: 0927		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 47.50	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (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	0.23	BP
	3	G	40ml	NaOH/ZnAc	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL	
WELL NO:	MW-11B	SAMPLE ID:		DATE:	12-2-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	78.8 feet to 88.8 feet	STATIC DEPTH TO WATER (feet):	36.05		PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): NA GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 88.80 feet) + 0.05 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	83.80	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	83.80	PURGING INITIATED AT:	0831	PURGING ENDED AT:	0851		TOTAL VOLUME PURGED (gallons):	3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0841	1.70	1.70	0.17	43.67	7.80	21.5	281	0.1	4.11	-83		
0844	0.51	2.21	0.17	43.68	7.82	21.4	281	0.2	4.96	-82		
0847	0.51	2.72	0.17	43.68	7.84	21.4	279	0.2	4.39	-81		
0850	0.51	3.23	0.17	43.68	7.85	21.3	278	0.2	4.40	-80	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:	0851		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	83.80	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.17	BP
	3	G	40 ml	NaOH	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-14A | SAMPLE ID: | DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 38.15 feet to 58.15 feet | STATIC DEPTH TO WATER (feet): 34.80 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): NA | GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (58.15 feet − 34.80 feet) X 0.163 gallons/foot = 3.81 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.2 gallons + (0.0026 gallons/foot X 58.15 feet) + 0.05 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~58~~ 58.15 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.15 | PURGING INITIATED AT: 1138 | PURGING ENDED AT: 1204 | TOTAL VOLUME PURGED (gallons): 6.24

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
1154	3.84	3.84	0.24	40.96	5.71	23.6	88	1.7	6.47	188		
1157	0.72	4.56	0.24	40.96	5.69	23.5	86	1.8	5.87	190		
1200	0.72	5.28	0.24	40.97	5.68	23.4	86	1.8	5.73	191		
1203	0.72	6.00	0.24	40.97	5.67	23.4	85	1.8	6.28	192	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1204 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 48.15 | 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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	NM	VOA	0.24	BP
	3	G	40 ml	NaHSO4	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS: SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL	
WELL NO:	MW-14B	SAMPLE ID:		DATE:	12-2-20

PURGING DATA

WELL DIAMETER (inches):	4	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: 90 feet to 100 feet	STATIC DEPTH TO WATER (feet):	41.10	PURGE PUMP TYPE OR BAILER:	ESP

WELL ELEVATION TOC (ft NGVD): NA GROUNDWATER ELEVATION (ft NGVD): NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 100.60 feet) + 0.05 gallons = 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	95.60	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	95.60	PURGING INITIATED AT:	1100	PURGING ENDED AT:	1122	TOTAL VOLUME PURGED (gallons):	4.18

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
1112	2.28	2.28	0.19	41.20	7.73	24.2	152	0.1	4.17	144		
1115	0.57	2.85	0.19	41.20	7.76	24.1	155	0.2	3.85	143		
1118	0.57	3.42	0.19	41.20	7.77	24.1	153	0.2	3.44	143		
1121	0.57	3.99	0.19	41.21	7.77	24.1	154	0.1	3.16	142	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:	1122		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	95.60	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)			DUPLICATE:	Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE ~~(mL~~ per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	N.M	VOA	0.19	ESP
	3	G	40 ml	NaThio	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-15A	SAMPLE ID:		DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 49.3 feet to 69.3 feet	STATIC DEPTH TO WATER (feet): 39.06		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (69.30 feet – 39.06 feet) X 0.163 gallons/foot = 4.93 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.2 gallons + (0.0026 gallons/foot X 69.30 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.30	PURGING INITIATED AT: 0748	PURGING ENDED AT: 0816	TOTAL VOLUME PURGED (gallons): 7.84

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
0806	5.04	5.04	0.28	40.13	5.30	22.0	91	3.2	4.19	190		
0809	0.84	5.88	0.28	40.13	5.28	22.1	91	3.1	4.52	190		
0812	0.84	6.72	0.28	40.13	5.29	22.0	90	3.2	4.32	190		
0815	0.84	7.56	0.28	40.13	5.29	22.0	90	3.2	4.49	192	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: 0816	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 64.30	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40 ml	HCl	–	N.M	VOA	0.28	BP
	3	G	40 ml	NaOH/Zn	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-15B	SAMPLE ID:		DATE: 12-2-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 83.48 feet to 93.48 feet	STATIC DEPTH TO WATER (feet): 45.08		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): NA			GROUNDWATER ELEVATION (ft NGVD): NA		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 93.48 feet) + 0.05 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 88.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 88.48	PURGING INITIATED AT: 0717	PURGING ENDED AT: 0737		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0727	1.80	1.80	0.18	49.20	6.70	21.9	142	2.0	9.19	157		
0730	0.54	2.34	0.18	49.20	6.74	21.9	142	2.0	8.50	158		
0733	0.54	2.88	0.18	49.21	6.76	21.8	145	2.1	8.00	160		
0736	0.54	3.42	0.18	49.21	6.77	21.8	146	2.1	8.09	160	SLT.	
											WHITISH	
											TINT	

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: 0737		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 88.48	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	–	NM	VOA	0.18	BP
	3	G	40ml	NaOH/ZnAc	–		8011		
	1	P	1000 ml	–	–		G-CHEM		
	1	P	500 ml	HNO3	–		METALS		
	1	AG	500 ml	H2SO4	–		NH3		
	1	P	1000 ml	HNO3	–		GROSS ALPHA		

REMARKS:
SHEEN: No

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: EQUIPMENT BLANK	SAMPLE ID:		DATE: 12-2-20

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 (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
1355	NA	NA	NA	NA	6.88	23.3	7	0.8	0.00	27	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: 1355		SAMPLING ENDED AT: NR
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	1L	–	–	NM	G-CHEM	NA	NA
	1	P	500ml	HNO_3	–	NM	METALS		
	1	P	500ml	H_2SO_4	–	NM	NH_3		

REMARKS:
SHEEN: NO EB - COMPLETED USING D.I. H_2O PROVIDED BY PACE LAB

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-01A	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 54.71 feet to 64.71 feet	STATIC DEPTH TO WATER (feet): 38.89	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.47			GROUNDWATER ELEVATION (ft NGVD): 70.58	

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: 1113	PURGING ENDED AT: 1133	TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1123	2.70	2.70	0.27	42.84	7.41	25.8	448	0.5	3.37	88		
1126	0.81	3.51	0.27	42.85	7.41	25.9	449	0.5	3.22	88		
1129	0.81	4.32	0.27	42.85	7.41	25.9	449	0.5	4.24	88		
1132	0.81	5.13	0.27	42.85	7.42	26.0	448	0.5	3.91	87	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1133	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 64.71	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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.29	BP
	3	G	40ml	Na2S2O3	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:
Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-01B	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 87.78 feet to 97.78 feet	STATIC DEPTH TO WATER (feet): 48.10		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.53			GROUNDWATER ELEVATION (ft NGVD): 61.43		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

0.3 0.006

= ~~2~~ gallons + (~~0.006~~ gallons/foot X 97.78 feet) + 0.05 gallons = 0.93 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 91.78	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 91.78	PURGING INITIATED AT: 1041	PURGING ENDED AT: 1101		TOTAL VOLUME PURGED (gallons): 6.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1051	3.20	3.20	0.32	50.06	7.63	24.1	227	0.2	2.82	109		
1054	0.96	4.16	0.32	50.06	7.64	24.0	227	0.2	2.96	109		
1057	0.96	5.12	0.32	50.06	7.64	24.0	227	0.2	2.34	109		
1100	0.96	6.08	0.32	50.06	7.63	24.1	227	0.2	2.64	108	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1101	SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH			

PUMP OR TUBING DEPTH IN WELL (feet): 91.78	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	0.32	BP
	3	G	40ml	NaThio	–		EDB/DBCP		
	1	P	1000ml	–	–		G-CHEM		
	1	P	500ml	HNO3	–		METALS		
	1	AG	500ml	H2SO4	–		NH3		
	1	P	1000ml	HNO3	–		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-04A | SAMPLE ID: | DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH 36.65 feet to 46.35 feet | STATIC DEPTH TO WATER (feet): 23.15 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 82.04 | GROUNDWATER ELEVATION (ft NGVD): 58.89

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (46.35 feet - 23.15 feet) X 0.163 gallons/foot = 3.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.2 gallons + (0.0026 gallons/foot X 46.35 feet) + 0.05 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | PURGING INITIATED AT: 0732 | PURGING ENDED AT: 0800 | TOTAL VOLUME PURGED (gallons): 6.16

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
0750	3.96	3.96	0.22	25.34	6.01	22.4	97	4.4	2.69	188		
0753	0.66	4.62	0.22	25.34	6.01	22.5	97	4.5	2.91	188		
0756	0.66	5.28	0.22	25.34	6.01	22.5	97	4.4	2.33	188		
0759	0.66	5.94	0.22	25.35	6.01	22.5	97	4.5	2.84	188	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMOUR / PRO-TECH | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0800 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 41.65 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE ID CODE	# 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	0.22	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL
WELL NO:	MW-04B	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	63 feet to 73 feet	STATIC DEPTH TO WATER (feet):	23.31		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):		83.18				GROUNDWATER ELEVATION (ft NGVD):		59.87		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 73.00 feet) + 0.05 gallons = 0.79 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	68.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	68.00	PURGING INITIATED AT:	0702	PURGING ENDED AT:	0722		TOTAL VOLUME PURGED (gallons):	5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0713	2.70	2.70	0.27	24.79	5.42	22.4	71	0.6	4.22	186		
0715	0.81	3.51	0.27	24.79	5.41	22.4	71	0.6	3.77	186		
0718	0.81	4.32	0.27	24.80	5.41	22.5	71	0.6	4.08	188		
0721	0.81	5.13	0.27	24.80	5.41	22.5	71	0.6	4.66	189	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:	0722		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	68.00	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)			DUPLICATE:	Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (~~mL~~ per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	500 ml	HNO3	–	–	METALS	0.27	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	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-05A	SAMPLE ID:			DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH 38.08 feet to 43.08 feet	STATIC DEPTH TO WATER (feet):	21.48	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	81.86				GROUNDWATER ELEVATION (ft NGVD):	60.38		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (43.08 feet - 21.48 feet) X 0.163 gallons/foot = 3.52 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:	0844	PURGING ENDED AT:	0911		TOTAL VOLUME PURGED (gallons)	5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0901	3.57	3.57	0.21	24.06	5.63	23.4	76	3.4	3.20	208		
0904	0.63	4.20	0.21	24.06	5.65	23.4	76	3.4	3.24	207		
0907	0.63	4.83	0.21	24.06	5.67	23.4	76	3.4	3.47	205		
0910	0.63	5.46	0.21	24.06	5.68	23.4	76	3.4	3.30	205	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; 5" = 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:	0911		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			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	0.21	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-05B	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 59.35 feet to 69.35 feet	STATIC DEPTH TO WATER (feet): 22.65		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 81.27			GROUNDWATER ELEVATION (ft NGVD): 58.62		

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 69.35 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 69.35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.35	PURGING INITIATED AT: 0814	PURGING ENDED AT: 0834		TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0824	2.70	2.70	0.27	23.57	7.83	22.9	224	0.1	2.93	260		
0827	0.81	3.51	0.27	23.57	7.84	22.9	224	0.1	3.23	259		
0830	0.81	4.32	0.27	23.57	7.86	22.9	223	0.1	3.55	258		
0833	0.81	5.13	0.27	23.57	7.86	23.0	224	0.1	3.53	256	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: 0834		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 64.35	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	0.27	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: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-06AR	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 52.35 feet to 72.35 feet	STATIC DEPTH TO WATER (feet): 45.22	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 104.11		GROUNDWATER ELEVATION (ft NGVD): 58.89		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (72.35 feet - 45.22 feet) X 0.163 gallons/foot = 4.42 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: 1224	PURGING ENDED AT: 1255		TOTAL VOLUME PURGED (gallons): 6.82

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
1245	4.62	4.62	0.22	47.46	5.53	24.4	288	2.3	2.47	212		
1248	0.66	5.28	0.22	47.47	5.54	24.2	288	2.2	2.69	212		
1251	0.66	5.94	0.22	47.47	5.55	24.2	288	2.3	2.33	212		
1254	0.66	6.60	0.22	47.47	5.55	24.2	289	2.3	3.91	211	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1255		SAMPLING ENDED AT: NR
DAN ARMOUR / PRO-TECH				
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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	-	NM	VOA	0.22	BP
	3	G	40ml	Na2S2O3	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA FL
WELL NO:	MW-06BR	SAMPLE ID:		DATE:	12-3-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: 82.48 feet to 92.48 feet	STATIC DEPTH TO WATER (feet):	45.07		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	103.99				GROUNDWATER ELEVATION (ft NGVD):		58.92		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 92.48 feet) + 0.05 gallons = 0.90 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	87.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	87.48	PURGING INITIATED AT:	1152	PURGING ENDED AT:	1212		TOTAL VOLUME PURGED (gallons):	6.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1202	3.10	3.10	0.31	45.79	7.93	24.6	318	0.9	3.97	201		
1205	0.93	4.03	0.31	45.80	7.94	24.7	320	1.0	3.63	201		
1208	0.93	4.96	0.31	45.80	7.95	24.8	321	1.0	3.26	198		
1211	0.93	5.89	0.31	45.80	7.96	24.8	322	1.0	3.50	198	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DANNY ARMAS / TRC-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1212		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	87.48	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)			DUPLICATE:	Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 mL	HNO3	–	–	METALS	0.31	BP
	1	PE	250 mL	H2SO4	–	–	NH3		BP
	1	PE	125 mL	–	–	–	6 CHEM		BP

REMARKS:
SHEEN: No

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-07A | SAMPLE ID: | DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 51.03 feet to 71.03 feet | STATIC DEPTH TO WATER (feet): 36.45 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.26 | GROUNDWATER ELEVATION (ft NGVD): 72.81

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (71.03 feet - 36.45 feet) X 0.163 gallons/foot = 5.64 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 = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | PURGING INITIATED AT: 0955 | PURGING ENDED AT: 1027 | TOTAL VOLUME PURGED (gallons): 8.32

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
1017	5.72	5.72	0.26	38.02	7.25	23.3	317	0.9	4.97	111		
1020	0.78	6.50	0.26	38.02	7.25	23.3	314	1.0	5.04	112		
1023	0.78	7.28	0.26	38.02	7.24	23.3	312	0.9	4.71	112		
1026	0.78	8.06	0.26	38.02	7.24	23.3	311	1.0	4.59	111	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: 1027 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.26	BP
	3	G	40ml	Na2S2O3	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-07B	SAMPLE ID:		DATE: 12-3-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 81.7 feet to 91.7 feet	STATIC DEPTH TO WATER (feet): 48.86		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.13			GROUNDWATER ELEVATION (ft NGVD): 60.27		

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 91.70 feet) + 0.05 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 86.70	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 86.70	PURGING INITIATED AT: 0924	PURGING ENDED AT: 0944		TOTAL VOLUME PURGED (gallons): 3.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0934	1.80	1.80	0.18	49.33	7.53	22.0	210	0.1	3.29	108		
0937	0.54	2.34	0.18	49.33	7.52	22.1	210	0.1	3.32	108		
0940	0.54	2.88	0.18	49.33	7.52	22.2	209	0.1	3.14	106		
0943	0.54	3.42	0.18	49.33	7.53	22.2	209	0.1	2.64	103	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: 0944		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 86.70	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	HNO3	–	–	METALS	0.18	BP
	1	PE	250 ml	H2SO4	–	–	NH3		
	1	PE	125 ml	–	–	–	6-CHEM		

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-02AR	SAMPLE ID:		DATE: 12-4-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 81.06 feet to 91.06 feet	STATIC DEPTH TO WATER (feet): 27.00	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 87.22			GROUNDWATER ELEVATION (ft NGVD): 60.22	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (41.06 feet - 27.00 feet) X 0.163 gallons/foot = 2.29 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: 0813	PURGING ENDED AT: 0838	TOTAL VOLUME PURGED (gallons): 4.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0820	2.40	2.40	0.16	30.67	5.31	24.9	80	5.2	3.66	116		
0831	0.48	2.88	0.16	30.67	5.31	25.0	79	5.1	3.69	115		
0834	0.48	3.36	0.16	30.67	5.34	25.0	79	5.1	3.49	119		
0837	0.48	3.84	0.16	30.67	5.34	25.0	78	5.1	3.43	119	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: DAN ARMONA / PRO-TECH	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0830	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					
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	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present: YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL
WELL NO:	MW-02B	SAMPLE ID:		DATE:	12-4-20

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	72.05 feet to 77.05 feet	STATIC DEPTH TO WATER (feet):	29.72	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 88.96 GROUNDWATER ELEVATION (ft NGVD): 59.24

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 77.05 feet) + 0.05 gallons = 0.81 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	72.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	72.05	PURGING INITIATED AT:	0741	PURGING ENDED AT:	0801		TOTAL VOLUME PURGED (gallons):	8.60

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
0751	2.80	2.80	0.28	31.34	7.92	25.4	175	0.2	4.97	143		
0754	0.84	3.64	0.28	31.34	7.93	25.3	175	0.2	4.93	144		
0757	0.84	4.48	0.28	31.34	7.95	25.3	175	0.2	4.98	144		
0800	0.84	5.32	0.28	31.34	7.95	25.4	175	0.2	4.86	144	None	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	DANNY ARMOUR / PRO-TECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0801		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	72.05	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	HNO3	~	~	METALS	0.28	BP
	1	PE	250 ml	H2SO4	~	~	NH3	/	BP
	1	PE	125 ml	~	~	~	6-CHEM	/	BP

REMARKS:
SHEEN: NO

MATERIAL CODES: (Specify) AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-8R	SAMPLE ID:		DATE: 12-4-20

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): 38.42	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 99.60			GROUNDWATER ELEVATION (ft NGVD): 61.18	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 71.00 feet) + 0.05 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 66.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 66.00	PURGING INITIATED AT: 0702	PURGING ENDED AT: 0722		TOTAL VOLUME PURGED (gallons) 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0712	1.70	1.70	0.17	38.96	6.95	24.9	281	1.5	4.92	163		
0715	0.51	2.21	0.17	38.96	6.93	24.8	283	1.4	4.52	164		
0718	0.51	2.72	0.17	38.97	6.93	24.8	285	1.4	4.11	165		
0721	0.51	3.23	0.17	38.97	6.93	24.8	285	1.4	4.25	166	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: 0922	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					
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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.17	BP
	3	G	40ml	Nathio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 723-9230
Baton Rouge (504) 293-0136
Jacksonville (904) 493-3277
Houston (208) 441-7606
Pittsburgh (412) 748-8633

FACILITY NAME: VISTA

PTH TO WATER
EASUREMENTS

DATE: 12-1-20

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-01A	38.89
MW-01B	48.10
MW-02AR	27.00
MW-02B	29.72
MW-03A	34.26
MW-03B	34.52
MW-04A	23.15
MW-04B	23.31
MW-05A	21.48
MW-05B	22.65
MW-06AR	45.22
MW-06BR	45.07
MW-07A	36.45
MW-07B	48.86
MW-08R	38.42
MW-FL01	34.56
MW-FL02R	25.29

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
MW-FL03	39.24
MW-09A	39.82
MW-09B	40.26
MW-11A	36.33
MW-11B	36.05
MW-14A	34.80
MW-14B	41.10
MW-15A	39.06
MW-15B	45.08

PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.
Atlanta (770) 733-9229
Baton Rouge (504) 293-0136
Jacksonville (904) 493-3127
Houston (208) 441-7606
Pittsburgh (412) 746-8623

FACILITY NAME: VISTA

PTH TO WATER
EASUREMENTS

DATE: 12-4-20

MONITORING LOCATION	DEPTH TO WATER (ft TOC)
PZ-2	14.81
PZ-3	24.57
PZ-4	20.19
PZ-5	24.30
PZ-6	32.27
PZ-7	28.35
PZ-8	36.59
PZ-9	38.44
PZ-10	28.22
PZ-11	29.28
PZ-12	25.14

MONITORING LOCATION	DEPTH TO WATER (ft TOC)

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DANNY ARMOUR

Date: 12-2-20 Page 1 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-01A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-01B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-02AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-02B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-03A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-03B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-04A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-04B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-05A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-05B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager - FOR INTERNAL USE ONLY.

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DANNY ARMOUR

Date: 12-2-20 Page 2 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-06AR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-06BR	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-07A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-07B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-08R	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	NON DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-09A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-09B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-11A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-11B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-15A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	

* 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.

WM
WASTE MANAGEMENT

WELL CONDITION INSPECTION FORM

Site: VISTA

Personnel: DANNY ARMOUR

Date: 12-2-20

Page 3 of 3

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW-15B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	DEDICATED BLADDER PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-14A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	"	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
MW-14B	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	SUBMERSIBLE PUMP	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.
Return this form to Site Manager - FOR INTERNAL USE ONLY.

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HF SCIENTIFIC MICRO TPI INSTRUMENT # 200710329

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1000 NTU HF SCIENTIFIC LOT# 90103 EXP: JAN 2021

Standard B 10.0 NTU HF SCIENTIFIC LOT# 90102 EXP: JAN 2021

Standard C 0.02 NTU HF SCIENTIFIC LOT# 90101 EXP: JAN 2021

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/12/01	0800	A	1000	AUTO CAL	-	YES	INIT	DA
"	"	B	10.0	"	-	YES	INIT	DA
"	"	C	0.02	"	-	YES	INIT	DA
20/12/02	0615	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
20/12/03	0615	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA
20/12/04	0615	A	1000	AUTO CAL	-	YES	CONT	DA
"	"	B	10.0	"	-	YES	CONT	DA
"	"	C	0.02	"	-	YES	CONT	DA

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 (military)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/12/01	0800	A	100% SAT	100%	-	Yes	INIT	DA
20/12/02	0615	A	100% SAT	100%	-	Yes	CONT	DA
20/12/03	0615	A	100% SAT	100%	-	Yes	CONT	DA
20/12/04	0615	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

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI PRO SERIES INSTRUMENT # 15D100781

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]* 2708A/M EXP: 7/23/20

Standard A 7.00 (std) PINE ENV LOT# ~~9GA1010 EXP: 1/21~~

Standard B 4.00 (std) PINE ENV LOT# 9GA1010 EXP: 1/21

Standard C 10.00 (std) PINE ENV LOT: 2703951 EXP: 8/20/20

DATE (y/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/12/01	0800	A	7.00	AUTO CAL	-	YES	INIT	DM
"	"	B	4.00	"	-	YES	INIT	DM
"	"	C	10.00	"	-	YES	INIT	DM
20/12/02	0615	A	7.00	AUTO CAL	-	YES	CONT	DM
"	"	B	4.00	"	-	YES	CONT	DM
"	"	C	10.00	"	-	YES	CONT	DM
20/12/03	0615	A	7.00	AUTO CAL	-	YES	CONT	DM
"	"	B	4.00	"	-	YES	CONT	DM
"	"	C	10.00	"	-	YES	CONT	DM
20/12/04	0615	A	7.00	AUTO CAL	-	YES	CONT	DM
"	"	B	4.00	"	-	YES	CONT	DM
"	"	C	10.00	"	-	YES	CONT	DM

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI Pro Series INSTRUMENT # 15A100782

PARAMETER: *[check only one]*

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1.413 mS/cm Pine Env. Lot# 8GJ1041 Exp: 10/19

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
20/12/01	0800	A	1.413	Auto Cal	-	Yes	Init	DA
20/12/02	0615	A	1.413	Auto Cal	-	Yes	Cont	DA
20/12/03	0615	A	1.413	Auto Cal	-	Yes	Cont	DA
20/12/04	0615	A	1.413	Auto Cal	-	Yes	Cont	DA
	:							

APPENDIX B

COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE