Water Quality Monitoring Report
Second 2021 Semi-Annual Event

Vista Landfill Class III

Vista Landfill, LLC

February 16, 2022

PREPARED FOR:

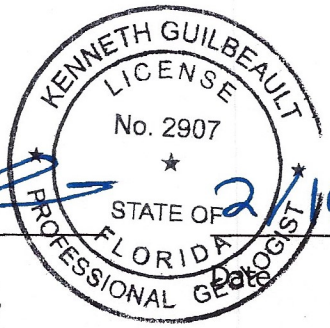
Vista Landfill, LLC
242 West Keene Road
Apopka, Florida 32703

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 2021 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



2/16/2022

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

CEC

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Florida Department of Environmental Protection

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

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

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

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

Address 242 West Keene Road

City Apopka Zip 32703 County Orange

Telephone Number (407)286-2920

(2) WACS Facility ID 87801

(3) DEP Permit Number 0165969-028-SO T3

(4) Authorized Representative's Name Frederick Nassar Title Environmental Protection

Address 242 West Keene Road

City Apopka Zip 32703 County Orange

Telephone Number (954)557-0581

Email address (if available) fnassar@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.

2/15/2022
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Atlantic Coas Consulting, Inc. (F.K.A. - 920045 - ProTech)

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 0165969-028-SO T3 issued June 10, 2016 and subsequent permit modifications. 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. 0165969-028-SO T3 (and subsequent permit modifications), 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 2021 sampling data was obtained during the routine semi-annual monitoring event conducted December 8, 9, and 14, 2021 (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 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 60-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.

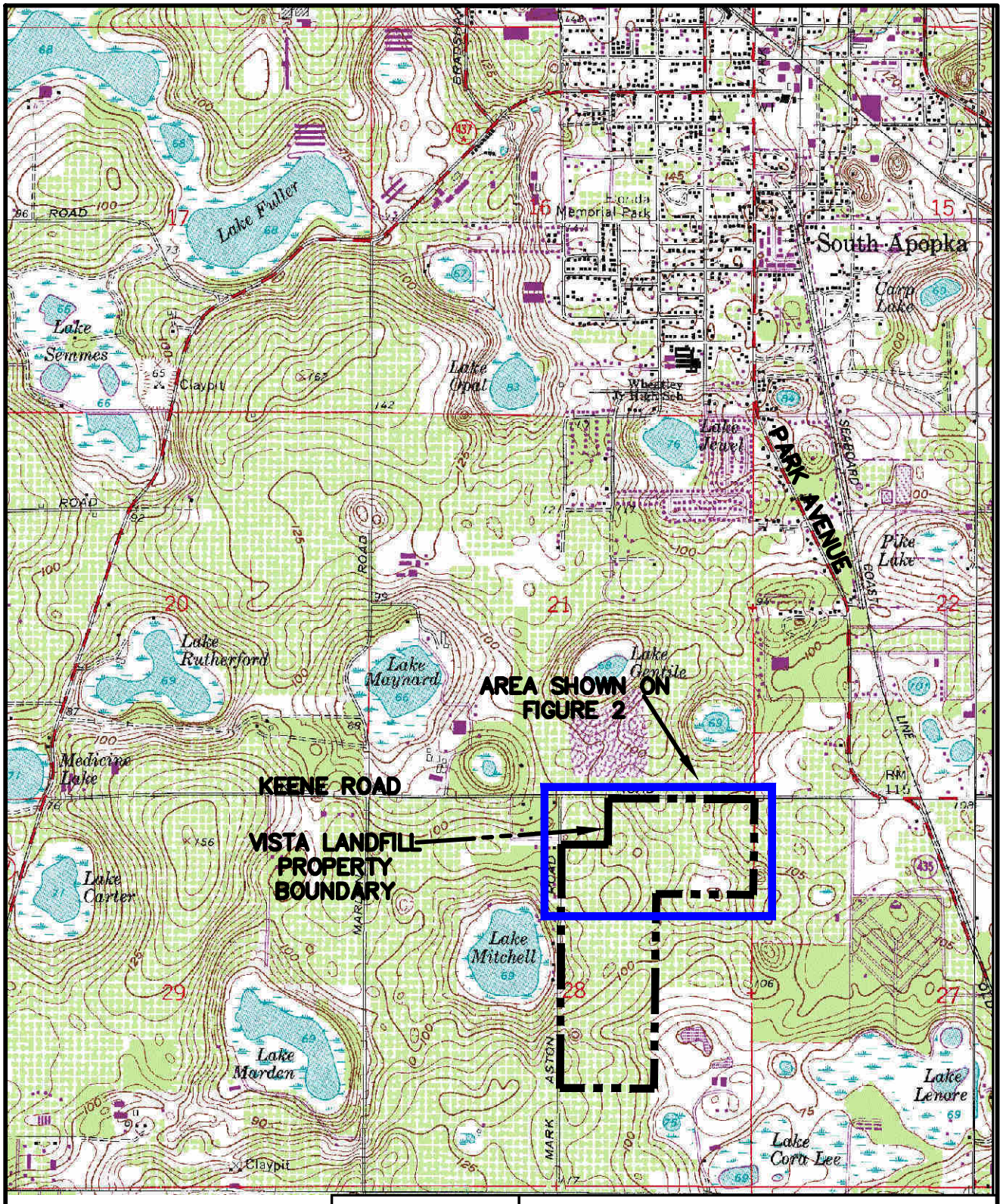

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FIGURE 1:
SITE LOCATION MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

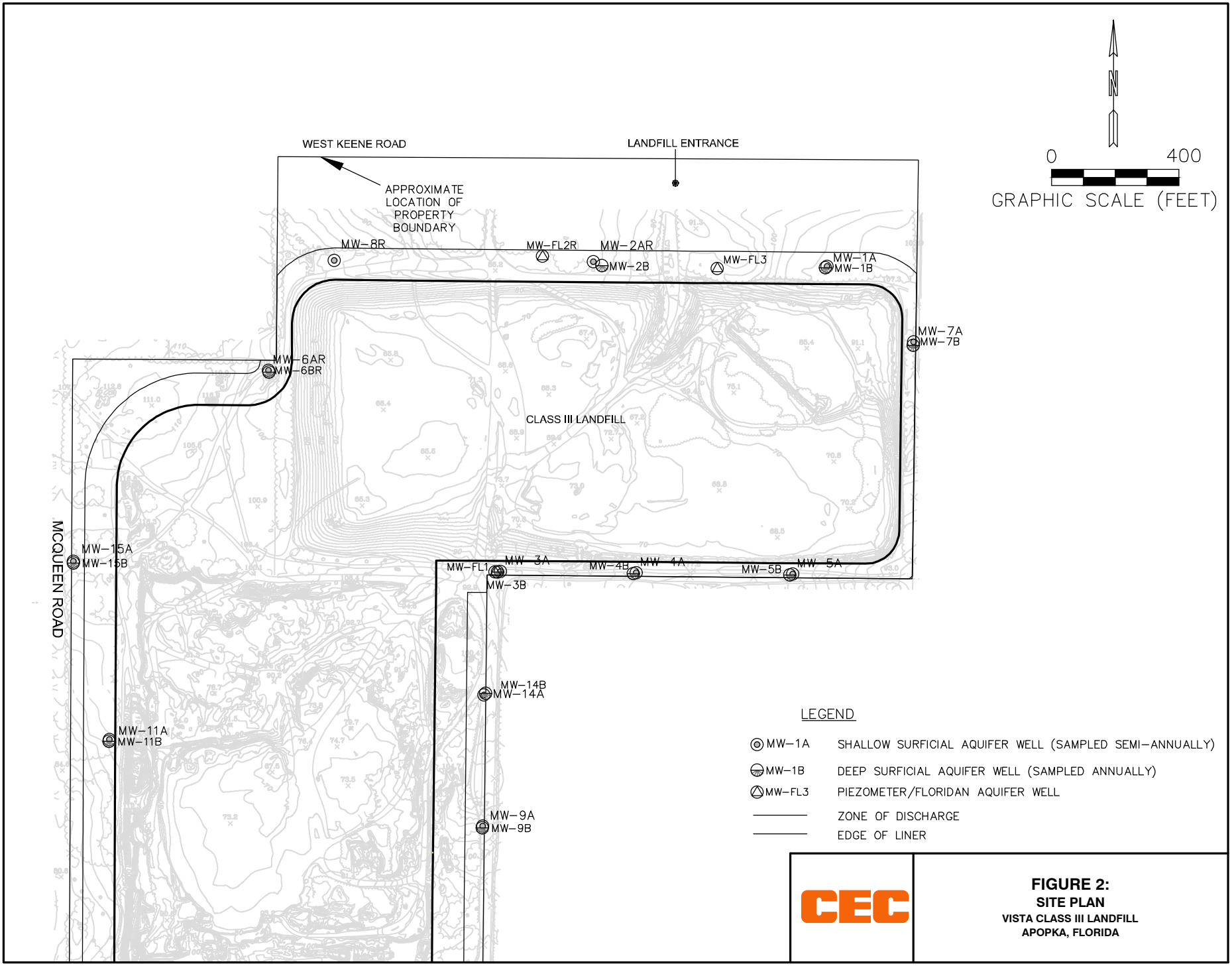


FIGURE 2:
SITE PLAN
VISTA CLASS III LANDFILL
APOPKA, FLORIDA

3 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).

3.1 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 2021 sampling event. The deep zone wells are used as piezometers with no routine sampling unless there are verified landfill impacts in the lower zone water unit.

Well and well/piezometer locations are shown on Figure 2. The monitoring wells, with their monitored zone and permitted designations as background or compliance, are listed in Table 1. The construction details for the 26 monitoring wells and piezometers comprising the monitoring system are included in Table 2.

Table 1. 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 2. EXISTING MONITORING LOCATIONS AND CONSTRUCTION DETAILS, VISTA LANDFILL, APOPKA, FLORIDA

WACS ID	Water Quality Monitoring Site ID	Date Installed	Date Abandoned	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Total Well Depth (Feet BLS)	Outer Casing Diameter/ Depth	Well Diameter	Screen Slot Size	Screen Length (feet)	Top of Screen (Feet BLS)	Bottom of Screen (Feet BLS)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
19335	MW-1A[1]	4/20/2004	NA	BG	Shallow Surficial	109.47	69	NA	2	0.006	20	49	69	57	37	1565469.28	492550.11	28° 38' 21.30"	81° 30' 36.28"
19336	MW-1B	4/20/2004	NA	BG	Intermediate Surficial	109.53	96	NA	2	0.010	10	86	96	20	10	1565465.40	492545.32	28° 38' 21.27"	81° 30' 36.33"
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).

3.2 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). Atlantic Coast Consulting, Inc. (ACC) field personnel collected groundwater samples for laboratory analysis from all monitoring wells listed in Section 3.1 between December 8, 9, and 14, 2021.

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, ACC 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).

4 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 8, 2021. 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 3 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.

4.1 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 2021 sampling event and is provided on Figure 3.

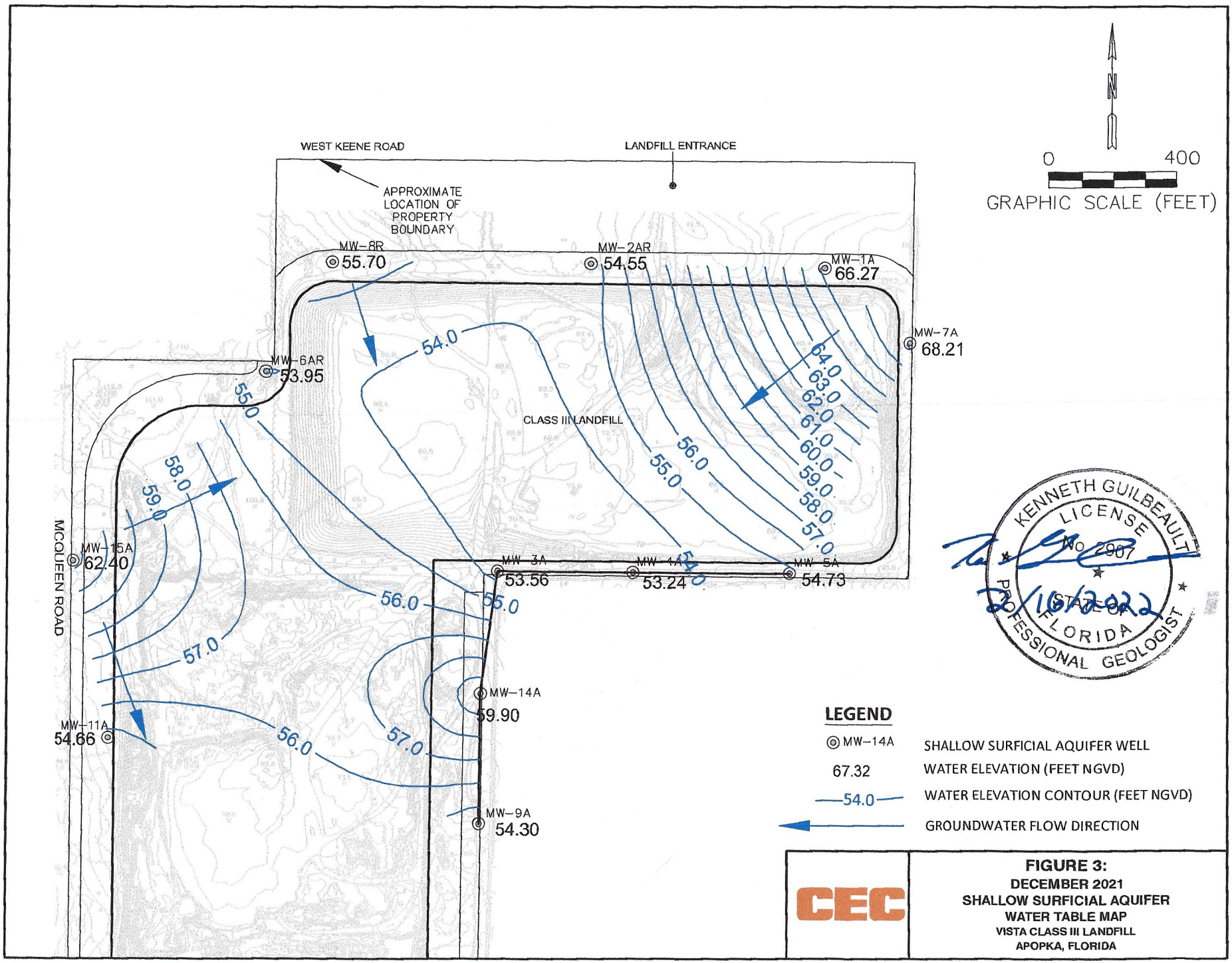
Groundwater flow typically is expected to be perpendicular to the water level contours. Therefore, the approximate direction of groundwater flow in the shallow surficial aquifer is primarily to the southwest. A portion of the groundwater enters from the northwest section of the site and flows south. 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 3. Groundwater Elevation Measurements
Vista Landfill, Apopka, Florida

Well No.	TOC Elevation (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	December 8, 2021 Groundwater Elevation (Feet NGVD)
MW-1A	109.47	43.02	66.45
MW-1B	109.53	53.12	56.41
MW-2AR	87.22	32.67	54.55
MW-2B	88.46	35.19	53.27
MW-3A	92.87	39.31	53.56
MW-3B	93.06	39.47	53.59
MW-4A	82.04	28.80	53.24
MW-4B	83.18	28.95	54.23
MW-5A	81.86	27.13	54.73
MW-5B	81.27	28.03	53.24
MW-6AR	104.11	50.16	53.95
MW-6BR	103.99	50.06	53.93
MW-7A	109.26	41.05	68.21
MW-7B	109.13	54.06	55.07
MW-8R	99.60	43.90	55.70
MW-9A	99.45	45.15	54.30
MW-9B	99.52	45.37	54.15
MW-11A	96.35	41.69	54.66
MW-11B	96.37	41.33	55.04
MW-14A	100.62	40.72	59.90
MW-14B	100.10	46.12	53.98
MW-15A	105.27	42.87	62.40
MW-15B	105.15	50.47	54.68
MW-FL1	93.16	39.63	53.53
MW-FL2R	86.76	31.40	55.36
MW-FL3	97.49	44.28	53.21

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



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STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST
10/12/22

LEGEND

◎ MW-14A	SHALLOW SURFICIAL AQUIFER WELL
67.32	WATER ELEVATION (FEET NGVD)
—54.0—	WATER ELEVATION CONTOUR (FEET NGVD)
←	GROUNDWATER FLOW DIRECTION

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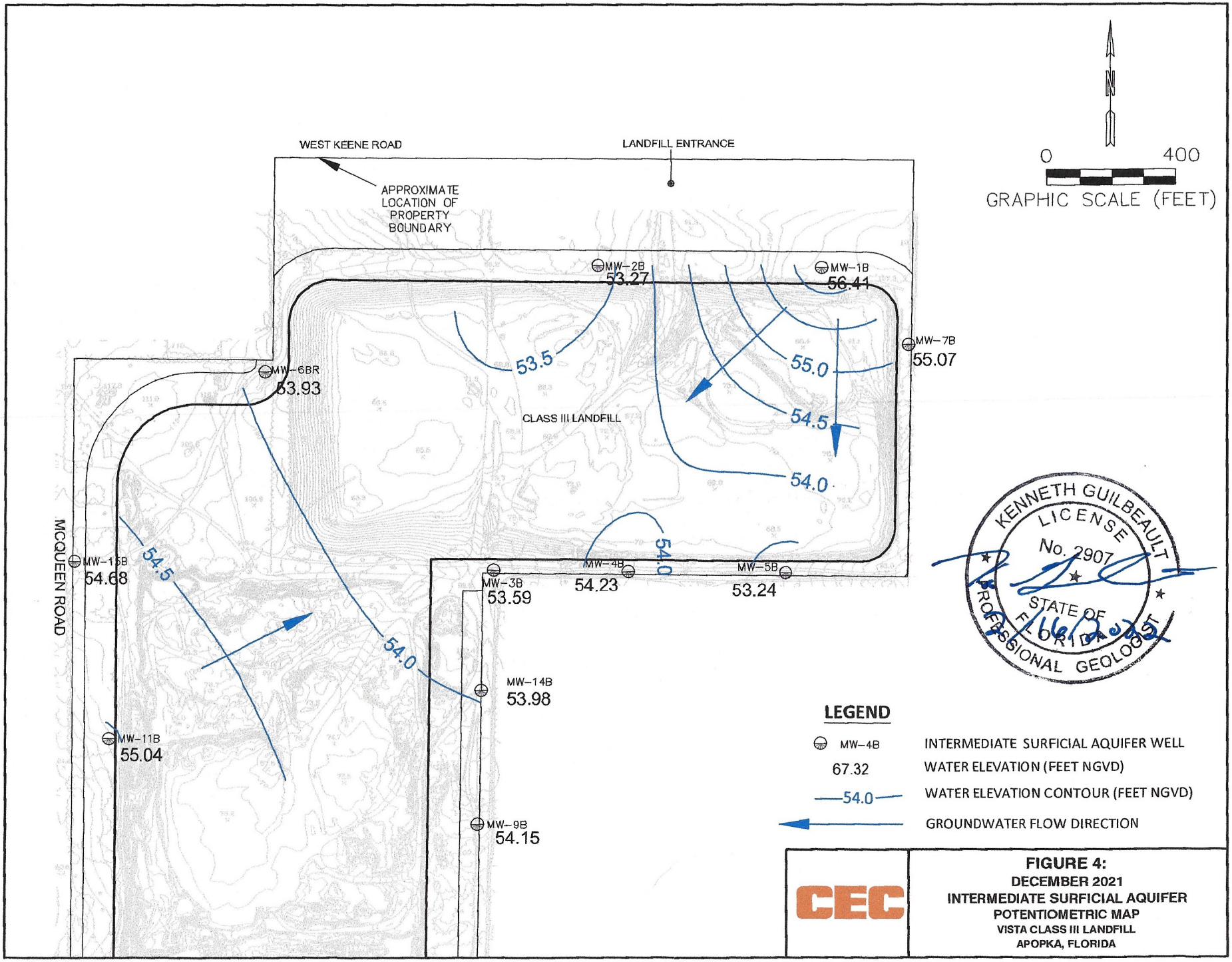
FIGURE 3:
DECEMBER 2021
SHALLOW SURFICIAL AQUIFER
WATER TABLE MAP
VISTA CLASS III LANDFILL
APOPKA, FLORIDA


N
0
400
GRAPHIC SCALE (FEET)
WEST KEENE ROAD
LANDFILL ENTRANCE
APPROXIMATE LOCATION OF PROPERTY BOUNDARY
MW-2B 53.27
MW-1B 56.41
MW-7B 55.07
MW-6BR 53.93
CLASS III LANDFILL
53.5
55.0
54.5
54.0
MCQUEEN ROAD
MW-15B 54.68
MW-3B 53.59
MW-4B 54.23
MW-5B 53.24
MW-14B 53.98
MW-11B 55.04
MW-9B 54.15
KENNETH GUILBEAULT
LICENSE
No. 2907
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 2021
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.

4.2 Intermediate Surficial Aquifer (Lower Zone)

A potentiometric map of the intermediate surficial aquifer was prepared from intermediate surficial well data for the December 2021 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.

4.3 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 3).

5 WATER QUALITY MONITORING RESULTS

This section summarizes the results of the groundwater quality sampling for the second semi-annual sampling event performed December 8, 9, and 14, 2021.

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

ACC field personnel collected one equipment blank during the December 2021 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 Report L1362888 are summarized below:

- MW-14A was analyzed for nitrate in an analytical batch having greater than ten samples between Continuing Calibration Verification standards. The sample was re-analyzed, and the initial result was confirmed. Reporting the initial in-hold result supported by the confirming re-analysis result.
- The relative percent difference (RPD) associated with batches WG1788084 and WG1788456 for TDS were slightly outside control criteria. Failing RPD indicates inconsistency in the parent sample matrix. The associated LCS were within acceptable limits, indicating the analytical batches were in control. No further corrective action was needed.
- A low level of mercury was present in the method blank associated with QC batch WG1787190. 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 iron and sodium were present in the method blanks associated with QC batches WG1793889 and WG1787703, respectively. Because the concentrations in the method blanks are not present at levels greater than the reporting limit, corrective action is deemed unnecessary.
- A low level of arsenic was present in the method blank associated with QC batch WG1792404. 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 acetone and carbon disulfide were present in the method blanks associated with QC batch WG1790298. Because the concentrations in the method blanks are not present at levels greater than the reporting limit, corrective action is deemed unnecessary.
- The sodium MS/MSD recoveries were below control limits for batches WG17877003 and WG1792394. These indicate a low bias. Recoveries in the LCS were acceptable, which indicates the analytical batch was in control. Additionally, sodium was not detected in the groundwater samples. No further corrective action was required.
- The bromomethane, carbon disulfide, chloroethane, iodomethane, trans-1,4dichloro-2-butene, trichloroethene, trichlorofluoromethane, vinyl acetate, and vinyl chloride RPD results for batch WG1688503 were above control limits. Recoveries in the LCS/LCSD 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 QC issues identified were not considered significant and the remainder of the lab data, even if flagged, was considered usable without further 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 1,810 micrograms per liter (μg/L) during the December 2021 sampling event. The FDEP SDWS of 300 μg/L for iron was exceeded at MW-5A (1,810 μg/L), MW-7A (774 μg/L), MW-9A (550 μg/L), and MW-14A (435 μg/L). The iron concentrations are not due to landfill operations. Iron will continue to be closely monitored in subsequent sampling events.

5.2.1.2 Mercury

During the December 2021 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 2021

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	5.79 **IV**	---	6.84 **IV**	---	3.54 **I**	---	3.64 **I**	---	5.9 **I**	---	18.1 **IV**	---	6.86 **IV**	---	7.49 **IV**	6.44 **I**	---	4.89 **I**	---	3.94 **I**	---	6.29 **I**	---
Carbon disulfide	ug/l	NS	NS	0.101 **JU**	---	0.17 **IJV**	---	0.101 **U**	---	0.101 **U**	---	0.101 **U**	---	0.101 **JU**	---	0.101 **JU**	---	0.101 **JU**	0.101 **U**	---	0.101 **U**	---	0.101 **U**	---	0.101 **U**	---
Chloroform	ug/l	NS	NS	0.445 **I**	---	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.189 **I**	---	0.086 **U**	---	0.086 **U**	0.086 **U**	---	0.086 **U**	---	0.086 **U**	---	0.344 **I**	---
Metals																										
Antimony	ug/l	6	PDWS	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**	---	0.85 **I**	---	0.754 **U**	---	0.754 **U**	---
Arsenic	ug/l	10	PDWS	0.258 **IV**	---	0.25 **U**	---	0.25 **U**	---	0.25 **U**	---	0.608 **I**	---	0.374 **IV**	---	1.22 **IV**	---	1.17 **IV**	0.25 **U**	---	1.55 **I**	---	0.633 **I**	---	0.25 **U**	---
Barium	ug/l	2000	PDWS	29.6	---	9.65	---	36.7	---	12.2	---	52.9	---	55.5	---	18.6	---	24.2	8	---	16.6	---	10.1	---	5.37	---
Beryllium	ug/l	4	PDWS	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.12 **U**	---	0.184 **I**	---	0.12 **U**	---	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**	---	0.712 **I**	---	0.7 **U**	---	0.73 **I**	0.7 **U**	---	0.7 **U**	---	0.7 **U**	---	0.7 **U**	---
Chromium	ug/l	100	PDWS	1.75 **I**	---	1.4 **U**	---	1.4 **U**	---	1.4 **U**	---	3.15 **I**	---	1.4 **U**	---	1.4 **U**	---	1.75 **I**	4.08 **I**	---	3.48 **I**	---	3.82 **I**	---	1.4 **U**	---
Iron	ug/l	300	SDWS	33.2 **IV**	---	14.1 **U**	---	56.9 **I**	---	16.8 **I**	---	1810	---	14.1 **U**	---	774	---	143 **V**	550	---	92 **I**	---	435	---	42.3 **I**	---
Mercury	ug/l	2	PDWS	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.103 **I**	---	3.94	---	0.049 **U**	---	0.049 **U**	0.049 **U**	---	0.049 **U**	---	0.049 **U**	---	0.437 **V**	---
Sodium	mg/l	160	PDWS	7.16	5.72	1.84	5.8	2.8	4.66	0.935 **I**	1.33	2.99	4.2	20.2	9.42	6.58	6.72	6.98 **J**	3.21	9.81	11	5.85	5.23	5.77	4.75	7.55
Thallium	ug/l	2	PDWS	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	---	0.19 **U**	0.19 **U**	---	0.499 **I**	---	0.19 **U**	---	0.19 **U**	---
Zinc	ug/l	5000	SDWS	5.9 **U**	---	5.9 **U**	---	5.9 **U**	---	117	---	7.16 **I**	---	5.9 **U**	---	5.9 **U**	---	7.09 **I**	5.9 **U**	---	5.9 **U**	---	5.9 **U**	---	5.9 **U**	---
General Chemistry																										
Ammonia (N)	mg/l	NS	NS	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	0.0317 **U**	1.62	0.0317 **U**	0.0317 **U**
Chloride	mg/l	250	SDWS	15.1	8.29	2.41	5.26	6.83	10.6	1.64	2.52	7.97	9.11	44.8	24.2	12.6	5.79	13.7	6.19	21.6	8.52	6.7	5.35	6.28	7.96	18.3
Nitrate (N)	mg/l	10	PDWS	1.82	---	0.939	---	0.439	---	0.418	---	2.42	---	5.62	---	11	---	3.85	0.536	---	16.4	---	1.09	---	0.651	---
Residues- Filterable (TDS)	mg/l	500	SDWS	302	---	25	---	46	---	43	---	46	---	245	---	262	---	167	67	---	228	---	33	---	32	---
Field Parameters																										
Dissolved Oxygen	MG/L	NS	NS	0.4	0.2	5.2	0.3	1.2	1.1	4.5	0.7	3.4	0.1	2.4	1	1	0.2	1.5	1.8	0.1	2.3	0.2	1.8	0.2	3.2	2.1
Dissolved Oxygen	% Sat.	<20	MPIS	4.75	2.38	64.1	3.77	14.79	13.31	55.48	8.63	42.68	1.23	29.59	12.1	11.88	2.38	17.49	21.38	1.19	27.32	2.38	21.79	2.42	38.73	24.95
Oxidation Reduction Potential	mV	NS	NS	47	40	118	94	180	-70	200	209	147	24	162	127	38	82	80	91	102	113	-99	155	106	259	218
pH	S.U.	6.5-8.5	SDWS	7.39	7.55	5.73	7.9	5.42	7.2	6.05	5.44	5.75	7.86	5.51	7.88	7.39	7.48	6.91	7.01	7.69	7.65	7.72	5.78	7.6	5.26	6.58
Specific Conductance	UMHOS/CM	NS	NS	438	188	40	174	75	217	54	35	75	212	357	335	344	200	259	92	353	381	271	54	184	62	161
Temperature, Water	Deg C	NS	NS	24.3	24.1	26	26.7	25.7	25.3	26.5	26.2	27	25.9	25.6	25.1	24.3	23.9	23.4	24.4	23.8	24.1	23.9	24.7	24.8	24.8	24.5
Turbidity	NTU	NS	NS	2.6	2.1	2.7	5.3	2.6	2	1.8	2.6	2.2	4.9	2.2	2.3	2.5	3.6	4.8	5.4	2.7	4.3	2.5	4.7	4.2	1.5	7.5

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 background monitoring well MW-7A (11 mg/L) and detection well MW-11A (16.4 mg/L). These results were consistent with recent nitrate values obtained from these wells.

No exceedances of nitrate occurred at other monitoring wells. Background monitoring well MW-7A is located hydraulically up gradient and nitrate was detected in previous monitoring events prior to the placement of waste. Nitrate exceedances may be related to Rapid Infiltration Basin (RIB) facilities, which have been previously documented as potential sources for nitrates.[2] 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 (64.1%), MW-4A (55.48%), MW-5A (42.68%), MW-6AR (29.59%), MW_9A (21.38%), MW-11A (27.32%), MW-14A (21.79%), MW-15A (38.73%), and MW-15B (24.95%).

The monitoring wells were purged and sampled with a bladder pump at low flow rates as indicated by their relative gallons per minute (gpm) pumping rates as follows: MW_2AR (0.15 gpm), MW-4A (0.23 gpm), MW-5A (0.21 gpm), MW-6AR (0.22 gpm), MW_9A (0.23 gpm), MW-11A (0.22 gpm), MW-14A (0.23 gpm), MW-15A (0.27 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 (5.73 units) and MW-6AR (5.51 units) and in compliance wells MW-3A (5.42 units), MW-4A (6.05 units), MW-4B (5.44 units), MW-5A (5.75 units), MW-14A (5.78 units), and MW-15A (5.26 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.

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

5.2.3 Organic Parameters Exceedances

There were no exceedances of organic parameters during the December 2021 monitoring event.

There were low level volatile organic compound (VOC) detections of acetone, carbon disulfide, and chloroform (see Table 4). These compounds will continue to be monitored to confirm that concentrations remain below their respective regulatory standards.

6 SUMMARY

This section summarizes the December 2021 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 2021 monitoring event.
- Nitrate exceeded its PDWS in background monitoring well MW-7A and detection well 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 compliance wells MW-5A, MW-9A, and MW-14A.
- 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-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

ANALYTICAL REPORT

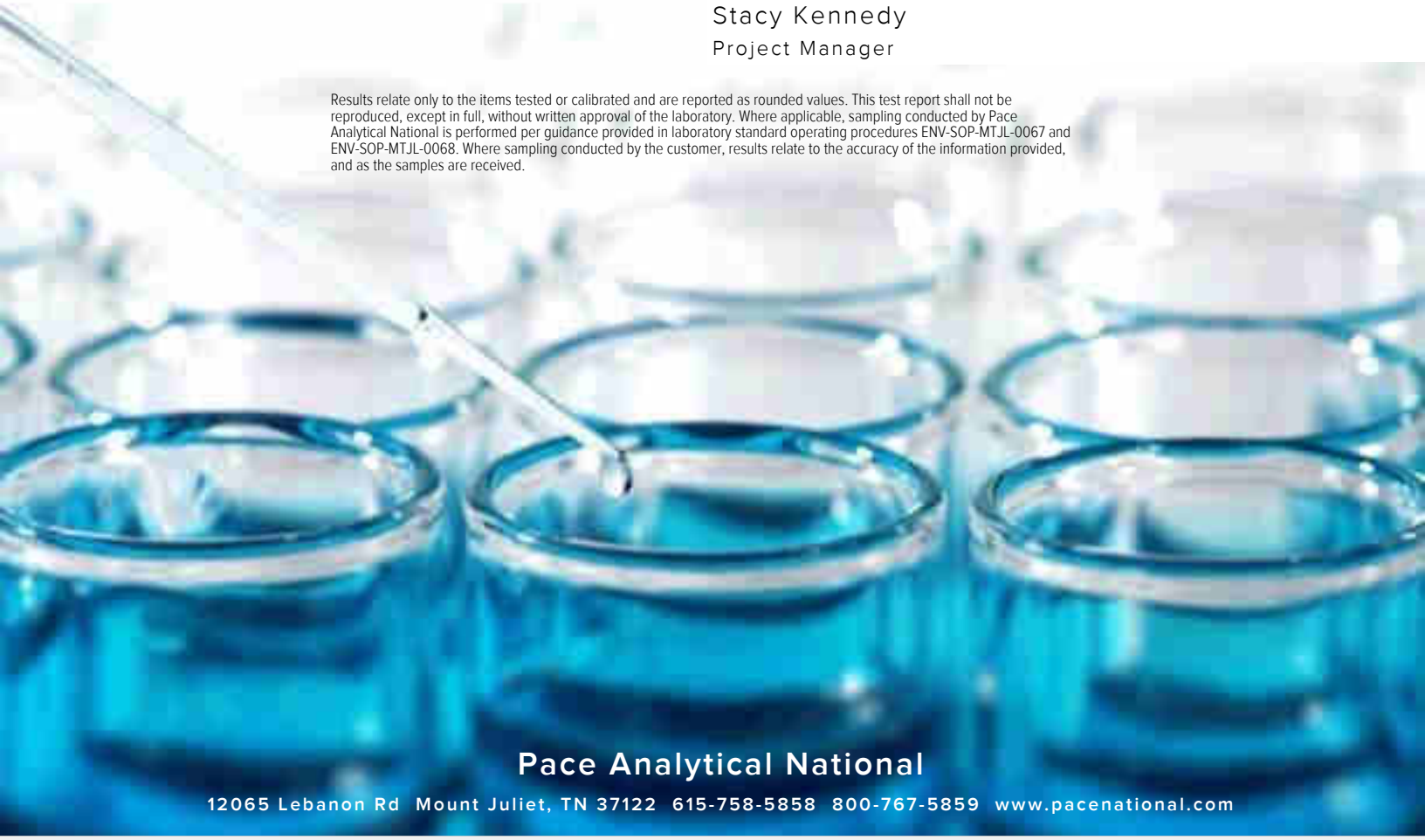
January 06, 2022

Vista

Sample Delivery Group:	L1440207
Samples Received:	12/09/2021
Project Number:	200
Description:	Vista-Semiannual GW Parameters June Dec
Site:	FL26
Report To:	Eric Parker 4978 LB McLeod Road Orlando, FL 32811

Entire Report Reviewed By:

Stacy Kennedy
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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MW-3A L1440207-01 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 11:57 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1787582	1	12/10/21 20:26	12/10/21 22:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 08:53	12/10/21 08:53	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 13:59	12/20/21 13:59	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787188	1	12/13/21 10:26	12/14/21 12:06	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 05:19	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787710	1	12/15/21 03:51	12/15/21 15:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 09:54	12/11/21 09:54	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788860	1.1	12/14/21 08:58	12/15/21 03:32	AMM	Mt. Juliet, TN

MW-3B L1440207-02 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 11:29 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 18:57	12/20/21 18:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:04	12/20/21 14:04	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 04:36	CCE	Mt. Juliet, TN

MW-4A L1440207-03 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 13:09 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1788540	1	12/13/21 14:00	12/13/21 16:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 10:04	12/10/21 10:04	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:07	12/20/21 14:07	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787188	1	12/13/21 10:26	12/14/21 12:08	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 05:22	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787710	1	12/15/21 03:51	12/15/21 15:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 10:15	12/11/21 10:15	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1	12/14/21 12:22	12/18/21 21:43	AMM	Mt. Juliet, TN

MW-4B L1440207-04 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 12:38 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 19:09	12/20/21 19:09	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:08	12/20/21 14:08	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 05:25	CCE	Mt. Juliet, TN

MW-5A L1440207-05 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 14:13 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1787582	1	12/10/21 20:26	12/10/21 22:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 10:15	12/10/21 10:15	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:10	12/20/21 14:10	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787188	1	12/13/21 10:26	12/14/21 12:10	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 05:28	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787710	1	12/15/21 03:51	12/15/21 15:46	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 10:36	12/11/21 10:36	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1.01	12/14/21 12:22	12/18/21 21:17	AMM	Mt. Juliet, TN

MW-5B L1440207-06 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 13:41 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1794455	1	12/28/21 00:41	12/28/21 00:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:16	12/20/21 14:16	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787699	1	12/20/21 01:49	12/22/21 05:31	CCE	Mt. Juliet, TN

MW-9A L1440207-07 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 09:54 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1788084	1	12/12/21 16:46	12/12/21 17:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 08:30	12/10/21 08:30	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:17	12/20/21 14:17	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787190	1	12/16/21 09:34	12/17/21 11:58	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 11:37	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 20:19	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 10:57	12/11/21 10:57	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1.02	12/14/21 12:22	12/18/21 21:56	AMM	Mt. Juliet, TN

MW-9B L1440207-08 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 09:24 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1794455	1	12/28/21 01:14	12/28/21 01:14	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:19	12/20/21 14:19	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 11:39	CCE	Mt. Juliet, TN

MW-11A L1440207-09 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 08:51 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1788456	1	12/13/21 12:35	12/13/21 13:29	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 08:06	12/10/21 08:06	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	5	12/10/21 08:18	12/10/21 08:18	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:20	12/20/21 14:20	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787190	1	12/16/21 09:34	12/17/21 12:00	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 11:42	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 20:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 11:18	12/11/21 11:18	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1	12/14/21 12:22	12/18/21 22:09	AMM	Mt. Juliet, TN

MW-11B L1440207-10 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 08:22 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1794455	1	12/28/21 02:03	12/28/21 02:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:22	12/20/21 14:22	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 11:45	CCE	Mt. Juliet, TN

MW-14A L1440207-11 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 10:28 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1787582	1	12/10/21 20:26	12/10/21 22:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/09/21 22:20	12/09/21 22:20	ELN	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 10:39	12/10/21 10:39	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:23	12/20/21 14:23	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787190	1	12/16/21 09:34	12/17/21 12:02	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 10:29	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 20:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 11:39	12/11/21 11:39	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1	12/14/21 12:22	12/18/21 22:22	AMM	Mt. Juliet, TN

MW-14B L1440207-12 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 10:58 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1794455	1	12/28/21 02:19	12/28/21 02:19	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:26	12/20/21 14:26	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 10:32	CCE	Mt. Juliet, TN

MW-15A L1440207-13 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 07:49 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1787582	1	12/10/21 20:26	12/10/21 22:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 07:43	12/10/21 07:43	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:29	12/20/21 14:29	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787190	1	12/16/21 09:34	12/17/21 12:04	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 10:34	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 20:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 12:00	12/11/21 12:00	ACG	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1.04	12/14/21 12:22	12/18/21 22:35	AMM	Mt. Juliet, TN

MW-15B L1440207-14 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 07:15 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1794455	1	12/28/21 02:36	12/28/21 02:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:35	12/20/21 14:35	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 10:37	CCE	Mt. Juliet, TN

Equipment Blank L1440207-15 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 14:30 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1787582	1	12/10/21 20:26	12/10/21 22:08	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1787045	1	12/10/21 10:51	12/10/21 10:51	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:37	12/20/21 14:37	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1787190	1	12/16/21 09:34	12/17/21 12:06	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1787703	1	12/14/21 03:25	12/14/21 10:40	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 20:33	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1787713	1	12/12/21 10:56	12/12/21 21:58	LD	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1788867	1.08	12/14/21 12:22	12/18/21 22:48	AMM	Mt. Juliet, TN

TRIP BLANK L1440207-16 GW

Collected by: Danny Armour | Collected date/time: 12/08/21 00:00 | Received date/time: 12/09/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1787739	1	12/11/21 07:26	12/11/21 07:26	ACG	Mt. Juliet, TN

MW-1A L1440207-17 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 09:21 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1789991	1	12/15/21 16:00	12/15/21 19:46	BRG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1791694	1	12/19/21 02:33	12/19/21 02:33	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:38	12/20/21 14:38	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1789515	1	12/20/21 13:56	12/22/21 09:35	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1793889	1	12/23/21 14:28	12/24/21 11:57	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1792404	1	12/21/21 03:36	12/21/21 13:43	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/17/21 02:33	12/17/21 02:33	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1790280	1	12/16/21 12:40	12/20/21 08:57	HMH	Mt. Juliet, TN

MW-1B L1440207-18 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 08:51 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 19:44	12/20/21 19:44	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:40	12/20/21 14:40	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:06	CCE	Mt. Juliet, TN

MW-2AR L1440207-19 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 10:23 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1789215	1	12/14/21 15:11	12/14/21 20:50	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1791694	1	12/19/21 05:07	12/19/21 05:07	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:41	12/20/21 14:41	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1790261	1	12/21/21 10:26	12/22/21 09:09	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:09	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1792404	1	12/21/21 03:36	12/21/21 13:51	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/17/21 02:54	12/17/21 02:54	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1790280	1.03	12/16/21 12:40	12/20/21 08:31	HMH	Mt. Juliet, TN

MW-2B L1440207-20 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 09:54 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 19:56	12/20/21 19:56	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:43	12/20/21 14:43	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:11	CCE	Mt. Juliet, TN

MW-6AR L1440207-21 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 11:38 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1789215	1	12/14/21 15:11	12/14/21 20:50	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1791694	1	12/19/21 05:20	12/19/21 05:20	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792177	1	12/20/21 14:44	12/20/21 14:44	SL	Mt. Juliet, TN

1 Cp 2 Tc 3 Ss 4 Cn 5 Sr 6 Qc 7 Gl 8 Al 9 Sc

MW-6AR L1440207-21 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 11:38 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG1790261	1	12/21/21 10:26	12/22/21 09:11	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:14	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1792404	1	12/21/21 03:36	12/21/21 13:55	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/17/21 03:15	12/17/21 03:15	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1790280	1.02	12/16/21 12:40	12/20/21 09:10	HMH	Mt. Juliet, TN

MW-6BR L1440207-22 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 10:59 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 20:07	12/20/21 20:07	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792187	1	12/20/21 16:20	12/20/21 16:20	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:17	CCE	Mt. Juliet, TN

MW-7A L1440207-23 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 08:25 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1789991	1	12/15/21 16:00	12/15/21 19:46	BRG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1791889	1	12/19/21 12:54	12/19/21 12:54	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792187	1	12/20/21 16:23	12/20/21 16:23	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1790261	1	12/21/21 10:26	12/22/21 09:13	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:19	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1792404	1	12/21/21 03:36	12/21/21 13:58	RDS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/17/21 03:37	12/17/21 03:37	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1790280	1.04	12/16/21 12:40	12/20/21 09:23	HMH	Mt. Juliet, TN

MW-7B L1440207-24 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 07:45 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1792435	1	12/20/21 20:19	12/20/21 20:19	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792187	1	12/20/21 16:26	12/20/21 16:26	SL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1792394	1	12/21/21 14:12	12/22/21 05:22	CCE	Mt. Juliet, TN

MW-8R L1440207-25 GW

Collected by: Danny Armour | Collected date/time: 12/09/21 07:11 | Received date/time: 12/10/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1789344	1	12/14/21 18:28	12/14/21 19:25	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1791889	1	12/19/21 13:57	12/19/21 13:57	LBR	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1792187	1	12/20/21 16:28	12/20/21 16:28	SL	Mt. Juliet, TN
Mercury by Method 7470A	WG1792066	1	12/20/21 09:23	12/21/21 11:59	MRW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1793889	1	12/23/21 14:28	12/24/21 11:45	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1792404	1	12/21/21 03:36	12/21/21 14:01	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/17/21 03:58	12/17/21 03:58	JAH	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1790280	1.04	12/16/21 12:40	12/20/21 09:36	HMH	Mt. Juliet, TN

MW-1A RESAMPLED L1440207-26 WW

Collected by: Danny Armour | Collected date/time: 12/14/21 09:40 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1790074	1	12/15/21 19:01	12/15/21 19:01	ELN	Mt. Juliet, TN

MW-2AR RESAMPLED L1440207-27 WW

Collected by: Danny Armour | Collected date/time: 12/14/21 10:14 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1790074	1	12/15/21 19:13	12/15/21 19:13	ELN	Mt. Juliet, TN

MW-6AR RESAMPLED L1440207-28 WW

Collected by: Danny Armour | Collected date/time: 12/14/21 11:07 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1790074	1	12/15/21 19:36	12/15/21 19:36	ELN	Mt. Juliet, TN

MW-7A RESAMPLED L1440207-29 WW

Collected by: Danny Armour | Collected date/time: 12/14/21 09:04 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1790074	5	12/15/21 20:11	12/15/21 20:11	ELN	Mt. Juliet, TN

MW-8R RESAMPLED L1440207-30 WW

Collected by: Danny Armour | Collected date/time: 12/14/21 08:21 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1790074	1	12/15/21 20:23	12/15/21 20:23	ELN	Mt. Juliet, TN

TRIP BLANK 2 L1440207-31 GW

Collected by: Danny Armour | Collected date/time: 12/14/21 00:00 | Received date/time: 12/15/21 14:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1790298	1	12/16/21 22:18	12/16/21 22:18	JAH	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

Project Comments

L1440207-11 was analyzed for Nitrate in an analytical batch having greater than ten samples between Continuing Calibration Verification standards. The sample was re-analyzed, and the initial result was confirmed. Reporting the initial in-hold result supported by the confirming re-analysis result. SK 1/4/22

Gravimetric Analysis by Method 2540 C-2011

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1788084	(DUP) R3740612-3, (DUP) R3740612-4	Dissolved Solids
WG1788456	(DUP) R3741030-3, (DUP) R3741030-4	Dissolved Solids

Mercury by Method 7470A

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

Batch	Analyte	Lab Sample ID
WG1787190	Mercury	L1440207-13

Metals (ICP) by Method 6010B

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

Batch	Analyte	Lab Sample ID
WG1787703	Sodium,Total Recoverable	L1440207-15
WG1793889	Iron, Total Recoverable	L1440207-17, 25

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1787703	(MS) R3740615-4, (MSD) R3740615-5	Sodium
WG1792394	(MS) R3743732-4, (MSD) R3743732-5	Sodium

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1793889	L1440207-25	Sodium,Total Recoverable

Metals (ICPMS) by Method 6020

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

Batch	Analyte	Lab Sample ID
WG1792404	Arsenic, Total Recoverable	L1440207-17, 21, 23, 25

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

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

Batch	Analyte	Lab Sample ID
WG1790298	Acetone	L1440207-17, 19, 21, 23, 25, 31
WG1790298	Carbon disulfide	L1440207-19, 31

The value is outside laboratory established criteria.

Batch	Lab Sample ID	Analytes
WG1790298	(LCSD) R3741840-3, L1440207-17, 19, 21, 23, 25, 31	Bromomethane, Carbon disulfide, Chloroethane, Iodomethane, trans-1,4-Dichloro-2-butene, Trichloroethene, Trichlorofluoromethane, Vinyl acetate and Vinyl chloride

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.56	ft
pH (On Site)	5.42	su
Temperature (on-site)	25.7	Deg. C
Specific Conductance (on site)	75	umhos/cm
Dissolved Oxygen (on-site)	1.2	mg/l
Turbidity (on-site)	2.6	NTU
eH/ORP (On Site)	180	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	46.0		10.0	1	12/10/2021 22:08	WG1787582

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6.83		0.0519	1.00	1	12/10/2021 08:53	WG1787045
Nitrate as (N)	0.439		0.0227	0.100	1	12/10/2021 08:53	WG1787045

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	12/20/2021 13:59	WG1792177

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	12/14/2021 12:06	WG1787188

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	2.80		0.0111	1.00	1	12/22/2021 05:19	WG1787699

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	12/22/2021 05:19	WG1787699
Barium,Total Recoverable	36.7		1.70	5.00	1	12/22/2021 05:19	WG1787699
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/22/2021 05:19	WG1787699
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:19	WG1787699
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/22/2021 05:19	WG1787699
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:19	WG1787699
Iron, Total Recoverable	56.9	I	14.1	100	1	12/22/2021 05:19	WG1787699
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:19	WG1787699
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:19	WG1787699
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:19	WG1787699
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:19	WG1787699
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/22/2021 05:19	WG1787699

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	12/15/2021 15:32	WG1787710
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/15/2021 15:32	WG1787710
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/15/2021 15:32	WG1787710
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/15/2021 15:32	WG1787710

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	12/11/2021 09:54	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 09:54	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 09:54	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 09:54	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 09:54	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 09:54	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 09:54	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 09:54	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 09:54	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 09:54	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 09:54	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 09:54	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 09:54	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 09:54	WG1787739
Acetone	3.54	I	1.05	25.0	1	12/11/2021 09:54	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 09:54	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 09:54	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 09:54	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 09:54	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 09:54	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 09:54	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 09:54	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 09:54	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 09:54	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 09:54	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 09:54	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 09:54	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 09:54	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 09:54	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 09:54	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 09:54	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 09:54	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 09:54	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 09:54	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 09:54	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 09:54	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 09:54	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 09:54	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 09:54	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 09:54	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 09:54	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 09:54	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 09:54	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 09:54	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 09:54	WG1787739
(S) 4-Bromofluorobenzene	*106*			*77.0-126*		*12/11/2021 09:54*	WG1787739
(S) Toluene-d8	*111*			*80.0-120*		*12/11/2021 09:54*	WG1787739
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*12/11/2021 09:54*	WG1787739

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	0.00473	U	0.00473	0.0220	1.1	12/15/2021 03:32	WG1788860
Ethylene Dibromide	0.00264	U	0.00264	0.0110	1.1	12/15/2021 03:32	WG1788860

Sample Narrative:

L1440207-01 WG1788860: Dilution due to sample volume.

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.59	ft
pH (On Site)	7.2	su
Temperature (on-site)	25.3	Deg. C
Specific Conductance (on site)	217	umhos/cm
Dissolved Oxygen (on-site)	1.1	mg/l
Turbidity (on-site)	2	NTU
eH/ORP (On Site)	-70	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	12/20/2021 18:57	WG1792435

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	12/20/2021 14:04	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.66		0.0111	1.00	1	12/22/2021 04:36	WG1787699

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.24	ft
pH (On Site)	6.05	su
Temperature (on-site)	26.5	Deg. C
Specific Conductance (on site)	54	umhos/cm
Dissolved Oxygen (on-site)	4.5	mg/l
Turbidity (on-site)	1.8	NTU
eH/ORP (On Site)	200	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	43.0		10.0	1	12/13/2021 16:36	WG1788540

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1.64		0.0519	1.00	1	12/10/2021 10:04	WG1787045
Nitrate as (N)	0.418		0.0227	0.100	1	12/10/2021 10:04	WG1787045

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	12/20/2021 14:07	WG1792177

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	12/14/2021 12:08	WG1787188

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	0.935	I	0.0111	1.00	1	12/22/2021 05:22	WG1787699

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	12/22/2021 05:22	WG1787699
Barium,Total Recoverable	12.2		1.70	5.00	1	12/22/2021 05:22	WG1787699
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/22/2021 05:22	WG1787699
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:22	WG1787699
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/22/2021 05:22	WG1787699
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:22	WG1787699
Iron, Total Recoverable	16.8	I	14.1	100	1	12/22/2021 05:22	WG1787699
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:22	WG1787699
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:22	WG1787699
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:22	WG1787699
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:22	WG1787699
Zinc, Total Recoverable	117		5.90	50.0	1	12/22/2021 05:22	WG1787699

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	12/15/2021 15:42	WG1787710
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/15/2021 15:42	WG1787710
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/15/2021 15:42	WG1787710
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/15/2021 15:42	WG1787710

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	12/11/2021 10:15	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:15	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 10:15	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:15	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 10:15	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 10:15	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 10:15	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 10:15	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 10:15	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 10:15	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 10:15	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 10:15	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 10:15	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 10:15	WG1787739
Acetone	3.64	I	1.05	25.0	1	12/11/2021 10:15	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 10:15	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 10:15	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 10:15	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 10:15	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 10:15	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 10:15	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 10:15	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 10:15	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 10:15	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 10:15	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 10:15	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 10:15	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 10:15	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 10:15	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 10:15	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 10:15	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 10:15	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 10:15	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 10:15	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 10:15	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 10:15	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 10:15	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 10:15	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 10:15	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 10:15	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 10:15	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 10:15	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 10:15	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 10:15	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 10:15	WG1787739
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*12/11/2021 10:15*	WG1787739
(S) Toluene-d8	*112*			*80.0-120*		*12/11/2021 10:15*	WG1787739
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*12/11/2021 10:15*	WG1787739

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	12/18/2021 21:43	WG1788867
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/18/2021 21:43	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	54.23	ft
pH (On Site)	5.44	su
Temperature (on-site)	26.2	Deg. C
Specific Conductance (on site)	35	umhos/cm
Dissolved Oxygen (on-site)	.7	mg/l
Turbidity (on-site)	2.6	NTU
eH/ORP (On Site)	209	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.52		0.0519	1.00	1	12/20/2021 19:09	WG1792435

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	12/20/2021 14:08	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	1.33		0.0111	1.00	1	12/22/2021 05:25	WG1787699

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	54.73	ft
pH (On Site)	5.75	su
Temperature (on-site)	27	Deg. C
Specific Conductance (on site)	75	umhos/cm
Dissolved Oxygen (on-site)	3.4	mg/l
Turbidity (on-site)	2.2	NTU
eH/ORP (On Site)	147	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	46.0		10.0	1	12/10/2021 22:08	WG1787582

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	7.97		0.0519	1.00	1	12/10/2021 10:15	WG1787045
Nitrate as (N)	2.42		0.0227	0.100	1	12/10/2021 10:15	WG1787045

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	12/20/2021 14:10	WG1792177

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.103	I	0.0490	0.200	1	12/14/2021 12:10	WG1787188

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	2.99		0.0111	1.00	1	12/22/2021 05:28	WG1787699

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	12/22/2021 05:28	WG1787699
Barium,Total Recoverable	52.9		1.70	5.00	1	12/22/2021 05:28	WG1787699
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/22/2021 05:28	WG1787699
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:28	WG1787699
Chromium, Total Recoverable	3.15	I	1.40	10.0	1	12/22/2021 05:28	WG1787699
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:28	WG1787699
Iron, Total Recoverable	1810		14.1	100	1	12/22/2021 05:28	WG1787699
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:28	WG1787699
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:28	WG1787699
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:28	WG1787699
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:28	WG1787699
Zinc, Total Recoverable	7.16	I	5.90	50.0	1	12/22/2021 05:28	WG1787699

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.608	I	0.250	2.00	1	12/15/2021 15:46	WG1787710
Beryllium, Total Recoverable	0.184	I	0.120	2.00	1	12/15/2021 15:46	WG1787710
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/15/2021 15:46	WG1787710
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/15/2021 15:46	WG1787710

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	12/11/2021 10:36	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:36	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 10:36	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:36	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 10:36	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 10:36	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 10:36	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 10:36	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 10:36	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 10:36	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 10:36	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 10:36	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 10:36	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 10:36	WG1787739
Acetone	5.90	I	1.05	25.0	1	12/11/2021 10:36	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 10:36	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 10:36	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 10:36	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 10:36	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 10:36	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 10:36	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 10:36	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 10:36	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 10:36	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 10:36	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 10:36	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 10:36	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 10:36	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 10:36	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 10:36	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 10:36	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 10:36	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 10:36	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 10:36	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 10:36	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 10:36	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 10:36	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 10:36	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 10:36	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 10:36	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 10:36	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 10:36	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 10:36	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 10:36	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 10:36	WG1787739
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*12/11/2021 10:36*	WG1787739
(S) Toluene-d8	*108*			*80.0-120*		*12/11/2021 10:36*	WG1787739
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*12/11/2021 10:36*	WG1787739

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	0.00434	U	0.00434	0.0202	1.01	12/18/2021 21:17	WG1788867
Ethylene Dibromide	0.00242	U	0.00242	0.0101	1.01	12/18/2021 21:17	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.24	ft
pH (On Site)	7.86	su
Temperature (on-site)	25.9	Deg. C
Specific Conductance (on site)	212	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	4.9	NTU
eH/ORP (On Site)	24	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	9.11		0.0519	1.00	1	12/28/2021 00:41	WG1794455

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	12/20/2021 14:16	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.20		0.0111	1.00	1	12/22/2021 05:31	WG1787699

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.01	su
Temperature (on-site)	24.4	Deg. C
Specific Conductance (on site)	92	umhos/cm
Dissolved Oxygen (on-site)	1.8	mg/l
Turbidity (on-site)	5.4	NTU
eH/ORP (On Site)	91	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	67.0		10.0	1	12/12/2021 17:45	WG1788084

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6.19		0.0519	1.00	1	12/10/2021 08:30	WG1787045
Nitrate as (N)	0.536		0.0227	0.100	1	12/10/2021 08:30	WG1787045

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	12/20/2021 14:17	WG1792177

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	12/17/2021 11:58	WG1787190

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	3.21		0.0111	1.00	1	12/14/2021 11:37	WG1787703

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	12/14/2021 11:37	WG1787703
Barium,Total Recoverable	8.00		1.70	5.00	1	12/14/2021 11:37	WG1787703
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/14/2021 11:37	WG1787703
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/14/2021 11:37	WG1787703
Chromium, Total Recoverable	4.08	I	1.40	10.0	1	12/14/2021 11:37	WG1787703
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/14/2021 11:37	WG1787703
Iron, Total Recoverable	550		14.1	100	1	12/14/2021 11:37	WG1787703
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/14/2021 11:37	WG1787703
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/14/2021 11:37	WG1787703
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/14/2021 11:37	WG1787703
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/14/2021 11:37	WG1787703
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/14/2021 11:37	WG1787703

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	12/12/2021 20:19	WG1787713
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/12/2021 20:19	WG1787713
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/12/2021 20:19	WG1787713
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/12/2021 20:19	WG1787713

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	12/11/2021 10:57	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:57	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 10:57	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 10:57	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 10:57	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 10:57	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 10:57	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 10:57	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 10:57	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 10:57	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 10:57	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 10:57	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 10:57	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 10:57	WG1787739
Acetone	6.44	I	1.05	25.0	1	12/11/2021 10:57	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 10:57	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 10:57	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 10:57	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 10:57	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 10:57	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 10:57	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 10:57	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 10:57	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 10:57	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 10:57	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 10:57	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 10:57	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 10:57	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 10:57	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 10:57	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 10:57	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 10:57	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 10:57	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 10:57	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 10:57	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 10:57	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 10:57	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 10:57	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 10:57	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 10:57	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 10:57	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 10:57	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 10:57	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 10:57	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 10:57	WG1787739
(S) 4-Bromofluorobenzene	*107*			*77.0-126*		*12/11/2021 10:57*	WG1787739
(S) Toluene-d8	*109*			*80.0-120*		*12/11/2021 10:57*	WG1787739
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*12/11/2021 10:57*	WG1787739

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	0.00439	U	0.00439	0.0204	1.02	12/18/2021 21:56	WG1788867
Ethylene Dibromide	0.00245	U	0.00245	0.0102	1.02	12/18/2021 21:56	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.69	su
Temperature (on-site)	23.8	Deg. C
Specific Conductance (on site)	353	umhos/cm
Dissolved Oxygen (on-site)	.1	mg/l
Turbidity (on-site)	2.7	NTU
eH/ORP (On Site)	102	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	21.6		0.0519	1.00	1	12/28/2021 01:14	WG1794455

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	12/20/2021 14:19	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	9.81		0.0111	1.00	1	12/14/2021 11:39	WG1787703

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.65	su
Temperature (on-site)	24.1	Deg. C
Specific Conductance (on site)	381	umhos/cm
Dissolved Oxygen (on-site)	2.3	mg/l
Turbidity (on-site)	4.3	NTU
eH/ORP (On Site)	113	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	228		10.0	1	12/13/2021 13:29	WG1788456

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	8.52		0.0519	1.00	1	12/10/2021 08:06	WG1787045
Nitrate as (N)	16.4		0.114	0.500	5	12/10/2021 08:18	WG1787045

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	12/20/2021 14:20	WG1792177

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	12/17/2021 12:00	WG1787190

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	12/14/2021 11:42	WG1787703

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	12/14/2021 11:42	WG1787703
Barium,Total Recoverable	16.6		1.70	5.00	1	12/14/2021 11:42	WG1787703
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/14/2021 11:42	WG1787703
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/14/2021 11:42	WG1787703
Chromium, Total Recoverable	3.48	I	1.40	10.0	1	12/14/2021 11:42	WG1787703
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/14/2021 11:42	WG1787703
Iron, Total Recoverable	92.0	I	14.1	100	1	12/14/2021 11:42	WG1787703
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/14/2021 11:42	WG1787703
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/14/2021 11:42	WG1787703
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/14/2021 11:42	WG1787703
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/14/2021 11:42	WG1787703
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/14/2021 11:42	WG1787703

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	1.55	I	0.250	2.00	1	12/12/2021 20:23	WG1787713
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/12/2021 20:23	WG1787713
Antimony, Total Recoverable	0.850	I	0.754	2.00	1	12/12/2021 20:23	WG1787713
Thallium, Total Recoverable	0.499	I	0.190	2.00	1	12/12/2021 20:23	WG1787713

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	12/11/2021 11:18	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 11:18	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 11:18	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 11:18	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 11:18	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 11:18	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 11:18	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 11:18	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 11:18	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 11:18	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 11:18	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 11:18	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 11:18	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 11:18	WG1787739
Acetone	4.89	I	1.05	25.0	1	12/11/2021 11:18	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 11:18	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 11:18	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 11:18	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 11:18	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 11:18	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 11:18	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 11:18	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 11:18	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 11:18	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 11:18	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 11:18	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 11:18	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 11:18	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 11:18	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 11:18	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 11:18	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 11:18	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 11:18	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 11:18	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 11:18	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 11:18	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 11:18	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 11:18	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 11:18	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 11:18	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 11:18	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 11:18	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 11:18	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 11:18	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 11:18	WG1787739
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/11/2021 11:18*	WG1787739
(S) Toluene-d8	*113*			*80.0-120*		*12/11/2021 11:18*	WG1787739
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*12/11/2021 11:18*	WG1787739

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	12/18/2021 22:09	WG1788867
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/18/2021 22:09	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.72	su
Temperature (on-site)	23.9	Deg. C
Specific Conductance (on site)	271	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	2.5	NTU
eH/ORP (On Site)	-99	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6.70		0.0519	1.00	1	12/28/2021 02:03	WG1794455

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	12/20/2021 14:22	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.85		0.0111	1.00	1	12/14/2021 11:45	WG1787703

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	5.78	su
Temperature (on-site)	24.7	Deg. C
Specific Conductance (on site)	54	umhos/cm
Dissolved Oxygen (on-site)	1.8	mg/l
Turbidity (on-site)	4.7	NTU
eH/ORP (On Site)	155	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	33.0		10.0	1	12/10/2021 22:08	WG1787582

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.35		0.0519	1.00	1	12/10/2021 10:39	WG1787045
Nitrate as (N)	1.09		0.0227	0.100	1	12/09/2021 22:20	WG1787045

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	12/20/2021 14:23	WG1792177

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	12/17/2021 12:02	WG1787190

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.23		0.0111	1.00	1	12/14/2021 10:29	WG1787703

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	12/14/2021 10:29	WG1787703
Barium,Total Recoverable	10.1		1.70	5.00	1	12/14/2021 10:29	WG1787703
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/14/2021 10:29	WG1787703
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/14/2021 10:29	WG1787703
Chromium, Total Recoverable	3.82	I	1.40	10.0	1	12/14/2021 10:29	WG1787703
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/14/2021 10:29	WG1787703
Iron, Total Recoverable	435		14.1	100	1	12/14/2021 10:29	WG1787703
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/14/2021 10:29	WG1787703
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/14/2021 10:29	WG1787703
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/14/2021 10:29	WG1787703
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/14/2021 10:29	WG1787703
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/14/2021 10:29	WG1787703

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.633	I	0.250	2.00	1	12/12/2021 20:26	WG1787713
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/12/2021 20:26	WG1787713
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/12/2021 20:26	WG1787713
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/12/2021 20:26	WG1787713

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	12/11/2021 11:39	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 11:39	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 11:39	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 11:39	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 11:39	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 11:39	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 11:39	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 11:39	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 11:39	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 11:39	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 11:39	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 11:39	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 11:39	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 11:39	WG1787739
Acetone	3.94	I	1.05	25.0	1	12/11/2021 11:39	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 11:39	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 11:39	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 11:39	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 11:39	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 11:39	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 11:39	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 11:39	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 11:39	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 11:39	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 11:39	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 11:39	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 11:39	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 11:39	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 11:39	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 11:39	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 11:39	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 11:39	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 11:39	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 11:39	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 11:39	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 11:39	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 11:39	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 11:39	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 11:39	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 11:39	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 11:39	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 11:39	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 11:39	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 11:39	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 11:39	WG1787739
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*12/11/2021 11:39*	WG1787739
(S) Toluene-d8	*110*			*80.0-120*		*12/11/2021 11:39*	WG1787739
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*12/11/2021 11:39*	WG1787739

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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	12/18/2021 22:22	WG1788867
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/18/2021 22:22	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	7.6	su
Temperature (on-site)	24.8	Deg. C
Specific Conductance (on site)	184	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	4.2	NTU
eH/ORP (On Site)	106	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6.28		0.0519	1.00	1	12/28/2021 02:19	WG1794455

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Ammonia Nitrogen	1.62		0.0317	0.100	1	12/20/2021 14:26	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.77		0.0111	1.00	1	12/14/2021 10:32	WG1787703

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	5.26	su
Temperature (on-site)	24.8	Deg. C
Specific Conductance (on site)	62	umhos/cm
Dissolved Oxygen (on-site)	3.2	mg/l
Turbidity (on-site)	1.5	NTU
eH/ORP (On Site)	259	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	32.0		10.0	1	12/10/2021 22:08	WG1787582

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	7.96		0.0519	1.00	1	12/10/2021 07:43	WG1787045
Nitrate as (N)	0.651		0.0227	0.100	1	12/10/2021 07:43	WG1787045

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	12/20/2021 14:29	WG1792177

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.437	V	0.0490	0.200	1	12/17/2021 12:04	WG1787190

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	4.75		0.0111	1.00	1	12/14/2021 10:34	WG1787703

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	12/14/2021 10:34	WG1787703
Barium,Total Recoverable	5.37		1.70	5.00	1	12/14/2021 10:34	WG1787703
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/14/2021 10:34	WG1787703
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/14/2021 10:34	WG1787703
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/14/2021 10:34	WG1787703
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/14/2021 10:34	WG1787703
Iron, Total Recoverable	42.3	I	14.1	100	1	12/14/2021 10:34	WG1787703
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/14/2021 10:34	WG1787703
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/14/2021 10:34	WG1787703
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/14/2021 10:34	WG1787703
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/14/2021 10:34	WG1787703
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/14/2021 10:34	WG1787703

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	12/12/2021 20:29	WG1787713
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/12/2021 20:29	WG1787713
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/12/2021 20:29	WG1787713
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/12/2021 20:29	WG1787713

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	12/11/2021 12:00	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 12:00	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 12:00	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 12:00	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 12:00	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 12:00	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 12:00	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 12:00	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 12:00	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 12:00	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 12:00	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 12:00	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 12:00	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 12:00	WG1787739
Acetone	6.29	I	1.05	25.0	1	12/11/2021 12:00	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 12:00	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 12:00	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 12:00	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 12:00	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 12:00	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 12:00	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 12:00	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 12:00	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 12:00	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 12:00	WG1787739
Chloroform	0.344	I	0.0860	0.500	1	12/11/2021 12:00	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 12:00	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 12:00	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 12:00	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 12:00	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 12:00	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 12:00	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 12:00	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 12:00	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 12:00	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 12:00	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 12:00	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 12:00	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 12:00	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 12:00	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 12:00	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 12:00	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 12:00	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 12:00	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 12:00	WG1787739
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/11/2021 12:00*	WG1787739
(S) Toluene-d8	*112*			*80.0-120*		*12/11/2021 12:00*	WG1787739
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*12/11/2021 12:00*	WG1787739

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	0.00447	U	0.00447	0.0208	1.04	12/18/2021 22:35	WG1788867
Ethylene Dibromide	0.00250	U	0.00250	0.0104	1.04	12/18/2021 22:35	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
pH (On Site)	6.58	su
Temperature (on-site)	24.5	Deg. C
Specific Conductance (on site)	161	umhos/cm
Dissolved Oxygen (on-site)	2.1	mg/l
Turbidity (on-site)	7.5	NTU
eH/ORP (On Site)	218	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	18.3		0.0519	1.00	1	12/28/2021 02:36	WG1794455

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	12/20/2021 14:35	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	7.55		0.0111	1.00	1	12/14/2021 10:37	WG1787703

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	Z	
pH (On Site)	6.78	su
Temperature (on-site)	25.3	Deg. C
Specific Conductance (on site)	8	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	0	NTU
eH/ORP (On Site)	27	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	10.0		10.0	1	12/10/2021 22:08	WG1787582

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.307	I	0.0519	1.00	1	12/10/2021 10:51	WG1787045
Nitrate as (N)	0.0479	I	0.0227	0.100	1	12/10/2021 10:51	WG1787045

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	12/20/2021 14:37	WG1792177

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	12/17/2021 12:06	WG1787190

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	0.882	I V	0.0111	1.00	1	12/14/2021 10:40	WG1787703

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	12/14/2021 10:40	WG1787703
Barium,Total Recoverable	1.70	U	1.70	5.00	1	12/14/2021 10:40	WG1787703
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/14/2021 10:40	WG1787703
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/14/2021 10:40	WG1787703
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/14/2021 10:40	WG1787703
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/14/2021 10:40	WG1787703
Iron, Total Recoverable	36.8	I	14.1	100	1	12/14/2021 10:40	WG1787703
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/14/2021 10:40	WG1787703
Lead, Total Recoverable	2.09	I	1.90	5.00	1	12/14/2021 10:40	WG1787703
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/14/2021 10:40	WG1787703
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/14/2021 10:40	WG1787703
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/14/2021 10:40	WG1787703

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	12/12/2021 20:33	WG1787713
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/12/2021 21:58	WG1787713
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/12/2021 20:33	WG1787713
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/12/2021 20:33	WG1787713

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	0.00464	U	0.00464	0.0216	1.08	12/18/2021 22:48	WG1788867
Ethylene Dibromide	0.00259	U	0.00259	0.0108	1.08	12/18/2021 22:48	WG1788867

Additional Information - Results for field analyses are not accredited to ISO 17025

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	12/11/2021 07:26	WG1787739
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 07:26	WG1787739
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/11/2021 07:26	WG1787739
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/11/2021 07:26	WG1787739
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/11/2021 07:26	WG1787739
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/11/2021 07:26	WG1787739
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/11/2021 07:26	WG1787739
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/11/2021 07:26	WG1787739
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/11/2021 07:26	WG1787739
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/11/2021 07:26	WG1787739
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/11/2021 07:26	WG1787739
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/11/2021 07:26	WG1787739
2-Hexanone	0.757	U	0.757	5.00	1	12/11/2021 07:26	WG1787739
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/11/2021 07:26	WG1787739
Acetone	1.24	I	1.05	25.0	1	12/11/2021 07:26	WG1787739
Acrylonitrile	0.873	U	0.873	5.00	1	12/11/2021 07:26	WG1787739
Benzene	0.0896	U	0.0896	0.500	1	12/11/2021 07:26	WG1787739
Bromochloromethane	0.145	U	0.145	0.500	1	12/11/2021 07:26	WG1787739
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/11/2021 07:26	WG1787739
Bromoform	0.186	U	0.186	0.500	1	12/11/2021 07:26	WG1787739
Bromomethane	0.157	U	0.157	2.50	1	12/11/2021 07:26	WG1787739
Carbon disulfide	0.101	U	0.101	0.500	1	12/11/2021 07:26	WG1787739
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/11/2021 07:26	WG1787739
Chlorobenzene	0.140	U	0.140	0.500	1	12/11/2021 07:26	WG1787739
Chloroethane	0.141	U	0.141	2.50	1	12/11/2021 07:26	WG1787739
Chloroform	0.0860	U	0.0860	0.500	1	12/11/2021 07:26	WG1787739
Chloromethane	0.153	U	0.153	1.25	1	12/11/2021 07:26	WG1787739
Dibromochloromethane	0.128	U	0.128	0.500	1	12/11/2021 07:26	WG1787739
Dibromomethane	0.117	U	0.117	0.500	1	12/11/2021 07:26	WG1787739
Ethylbenzene	0.158	U	0.158	0.500	1	12/11/2021 07:26	WG1787739
Iodomethane	0.377	U	0.377	10.0	1	12/11/2021 07:26	WG1787739
Methylene Chloride	1.07	U	1.07	2.50	1	12/11/2021 07:26	WG1787739
Styrene	0.117	U	0.117	0.500	1	12/11/2021 07:26	WG1787739
Tetrachloroethene	0.199	U	0.199	0.500	1	12/11/2021 07:26	WG1787739
Toluene	0.412	U	0.412	0.500	1	12/11/2021 07:26	WG1787739
Trichloroethene	0.153	U	0.153	0.500	1	12/11/2021 07:26	WG1787739
Trichlorofluoromethane	0.130	U	0.130	2.50	1	12/11/2021 07:26	WG1787739
Vinyl acetate	0.645	U	0.645	5.00	1	12/11/2021 07:26	WG1787739
Vinyl chloride	0.118	U	0.118	0.500	1	12/11/2021 07:26	WG1787739
Xylenes, Total	0.316	U	0.316	1.50	1	12/11/2021 07:26	WG1787739
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/11/2021 07:26	WG1787739
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/11/2021 07:26	WG1787739
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/11/2021 07:26	WG1787739
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/11/2021 07:26	WG1787739
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00	1	12/11/2021 07:26	WG1787739
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/11/2021 07:26*	WG1787739
(S) Toluene-d8	*115*			*80.0-120*		*12/11/2021 07:26*	WG1787739
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*12/11/2021 07:26*	WG1787739

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	66.45	ft
pH (On Site)	7.39	su
Temperature (on-site)	24.3	Deg. C
Specific Conductance (on site)	438	umhos/cm
Dissolved Oxygen (on-site)	.4	mg/l
Turbidity (on-site)	2.6	NTU
eH/ORP (On Site)	47	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	302		10.0	1	12/15/2021 19:46	WG1789991

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	15.1		0.0519	1.00	1	12/19/2021 02:33	WG1791694

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	12/20/2021 14:38	WG1792177

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	12/22/2021 09:35	WG1789515

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	7.16		0.0111	1.00	1	12/24/2021 11:57	WG1793889

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	12/24/2021 11:57	WG1793889
Barium,Total Recoverable	29.6		1.70	5.00	1	12/24/2021 11:57	WG1793889
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/24/2021 11:57	WG1793889
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/24/2021 11:57	WG1793889
Chromium, Total Recoverable	1.75	I	1.40	10.0	1	12/24/2021 11:57	WG1793889
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/24/2021 11:57	WG1793889
Iron, Total Recoverable	33.2	I V	14.1	100	1	12/24/2021 11:57	WG1793889
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/24/2021 11:57	WG1793889
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/24/2021 11:57	WG1793889
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/24/2021 11:57	WG1793889
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/24/2021 11:57	WG1793889
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/24/2021 11:57	WG1793889

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.258	I V	0.250	2.00	1	12/21/2021 13:43	WG1792404
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/21/2021 13:43	WG1792404
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/21/2021 13:43	WG1792404
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/21/2021 13:43	WG1792404

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	12/17/2021 02:33	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 02:33	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/17/2021 02:33	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 02:33	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/17/2021 02:33	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/17/2021 02:33	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/17/2021 02:33	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/17/2021 02:33	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/17/2021 02:33	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/17/2021 02:33	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/17/2021 02:33	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/17/2021 02:33	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/17/2021 02:33	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/17/2021 02:33	WG1790298
Acetone	5.79	I V	1.05	25.0	1	12/17/2021 02:33	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/17/2021 02:33	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/17/2021 02:33	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/17/2021 02:33	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/17/2021 02:33	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/17/2021 02:33	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/17/2021 02:33	WG1790298
Carbon disulfide	0.101	J U	0.101	0.500	1	12/17/2021 02:33	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/17/2021 02:33	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/17/2021 02:33	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/17/2021 02:33	WG1790298
Chloroform	0.445	I	0.0860	0.500	1	12/17/2021 02:33	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/17/2021 02:33	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/17/2021 02:33	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/17/2021 02:33	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/17/2021 02:33	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/17/2021 02:33	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/17/2021 02:33	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/17/2021 02:33	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/17/2021 02:33	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/17/2021 02:33	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/17/2021 02:33	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/17/2021 02:33	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/17/2021 02:33	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/17/2021 02:33	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/17/2021 02:33	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/17/2021 02:33	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/17/2021 02:33	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/17/2021 02:33	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/17/2021 02:33	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/17/2021 02:33	WG1790298
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*		*12/17/2021 02:33*	WG1790298
(S) Toluene-d8	*92.3*			*80.0-120*		*12/17/2021 02:33*	WG1790298
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*12/17/2021 02:33*	WG1790298

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	12/20/2021 08:57	WG1790280
Ethylene Dibromide	0.00240	U	0.00240	0.0100	1	12/20/2021 08:57	WG1790280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	56.41	ft
pH (On Site)	7.55	su
Temperature (on-site)	24.1	Deg. C
Specific Conductance (on site)	188	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	2.1	NTU
eH/ORP (On Site)	40	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	8.29		0.0519	1.00	1	12/20/2021 19:44	WG1792435

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	12/20/2021 14:40	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.72		0.0111	1.00	1	12/22/2021 05:06	WG1792394

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	54.55	ft
pH (On Site)	5.73	su
Temperature (on-site)	26	Deg. C
Specific Conductance (on site)	40	umhos/cm
Dissolved Oxygen (on-site)	5.2	mg/l
Turbidity (on-site)	2.7	NTU
eH/ORP (On Site)	118	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	25.0		10.0	1	12/14/2021 20:50	WG1789215

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.41		0.0519	1.00	1	12/19/2021 05:07	WG1791694

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	12/20/2021 14:41	WG1792177

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	12/22/2021 09:09	WG1790261

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	1.84		0.0111	1.00	1	12/22/2021 05:09	WG1792394

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	12/22/2021 05:09	WG1792394
Barium,Total Recoverable	9.65		1.70	5.00	1	12/22/2021 05:09	WG1792394
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/22/2021 05:09	WG1792394
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:09	WG1792394
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/22/2021 05:09	WG1792394
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:09	WG1792394
Iron, Total Recoverable	14.1	U	14.1	100	1	12/22/2021 05:09	WG1792394
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:09	WG1792394
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:09	WG1792394
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:09	WG1792394
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:09	WG1792394
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/22/2021 05:09	WG1792394

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	12/21/2021 13:51	WG1792404
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/21/2021 13:51	WG1792404
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/21/2021 13:51	WG1792404
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/21/2021 13:51	WG1792404

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	12/17/2021 02:54	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 02:54	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/17/2021 02:54	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 02:54	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/17/2021 02:54	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/17/2021 02:54	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/17/2021 02:54	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/17/2021 02:54	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/17/2021 02:54	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/17/2021 02:54	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/17/2021 02:54	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/17/2021 02:54	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/17/2021 02:54	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/17/2021 02:54	WG1790298
Acetone	6.84	I V	1.05	25.0	1	12/17/2021 02:54	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/17/2021 02:54	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/17/2021 02:54	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/17/2021 02:54	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/17/2021 02:54	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/17/2021 02:54	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/17/2021 02:54	WG1790298
Carbon disulfide	0.170	I J V	0.101	0.500	1	12/17/2021 02:54	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/17/2021 02:54	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/17/2021 02:54	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/17/2021 02:54	WG1790298
Chloroform	0.0860	U	0.0860	0.500	1	12/17/2021 02:54	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/17/2021 02:54	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/17/2021 02:54	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/17/2021 02:54	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/17/2021 02:54	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/17/2021 02:54	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/17/2021 02:54	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/17/2021 02:54	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/17/2021 02:54	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/17/2021 02:54	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/17/2021 02:54	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/17/2021 02:54	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/17/2021 02:54	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/17/2021 02:54	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/17/2021 02:54	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/17/2021 02:54	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/17/2021 02:54	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/17/2021 02:54	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/17/2021 02:54	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/17/2021 02:54	WG1790298
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*12/17/2021 02:54*	WG1790298
(S) Toluene-d8	*95.2*			*80.0-120*		*12/17/2021 02:54*	WG1790298
(S) 1,2-Dichloroethane-d4	*92.1*			*70.0-130*		*12/17/2021 02:54*	WG1790298

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	0.00443	U	0.00443	0.0206	1.03	12/20/2021 08:31	WG1790280
Ethylene Dibromide	0.00247	U	0.00247	0.0103	1.03	12/20/2021 08:31	WG1790280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.77	ft
pH (On Site)	7.9	su
Temperature (on-site)	26.7	Deg. C
Specific Conductance (on site)	174	umhos/cm
Dissolved Oxygen (on-site)	.3	mg/l
Turbidity (on-site)	5.3	NTU
eH/ORP (On Site)	94	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.26		0.0519	1.00	1	12/20/2021 19:56	WG1792435

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	12/20/2021 14:43	WG1792177

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	5.80		0.0111	1.00	1	12/22/2021 05:11	WG1792394

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.95	ft
pH (On Site)	5.51	su
Temperature (on-site)	25.6	Deg. C
Specific Conductance (on site)	357	umhos/cm
Dissolved Oxygen (on-site)	2.4	mg/l
Turbidity (on-site)	2.2	NTU
eH/ORP (On Site)	162	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	245		10.0	1	12/14/2021 20:50	WG1789215

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	44.8		0.0519	1.00	1	12/19/2021 05:20	WG1791694

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	12/20/2021 14:44	WG1792177

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	12/22/2021 09:11	WG1790261

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	20.2		0.0111	1.00	1	12/22/2021 05:14	WG1792394

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	12/22/2021 05:14	WG1792394
Barium,Total Recoverable	55.5		1.70	5.00	1	12/22/2021 05:14	WG1792394
Cadmium, Total Recoverable	0.712	I	0.700	2.00	1	12/22/2021 05:14	WG1792394
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:14	WG1792394
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/22/2021 05:14	WG1792394
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:14	WG1792394
Iron, Total Recoverable	14.1	U	14.1	100	1	12/22/2021 05:14	WG1792394
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:14	WG1792394
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:14	WG1792394
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:14	WG1792394
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:14	WG1792394
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/22/2021 05:14	WG1792394

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	0.374	I V	0.250	2.00	1	12/21/2021 13:55	WG1792404
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/21/2021 13:55	WG1792404
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/21/2021 13:55	WG1792404
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/21/2021 13:55	WG1792404

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	12/17/2021 03:15	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:15	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/17/2021 03:15	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:15	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/17/2021 03:15	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/17/2021 03:15	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/17/2021 03:15	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/17/2021 03:15	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/17/2021 03:15	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/17/2021 03:15	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/17/2021 03:15	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/17/2021 03:15	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/17/2021 03:15	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/17/2021 03:15	WG1790298
Acetone	18.1	I V	1.05	25.0	1	12/17/2021 03:15	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/17/2021 03:15	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/17/2021 03:15	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/17/2021 03:15	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/17/2021 03:15	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/17/2021 03:15	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/17/2021 03:15	WG1790298
Carbon disulfide	0.101	J U	0.101	0.500	1	12/17/2021 03:15	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/17/2021 03:15	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/17/2021 03:15	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/17/2021 03:15	WG1790298
Chloroform	0.189	I	0.0860	0.500	1	12/17/2021 03:15	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/17/2021 03:15	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/17/2021 03:15	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/17/2021 03:15	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/17/2021 03:15	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/17/2021 03:15	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/17/2021 03:15	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/17/2021 03:15	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/17/2021 03:15	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/17/2021 03:15	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/17/2021 03:15	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/17/2021 03:15	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/17/2021 03:15	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/17/2021 03:15	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/17/2021 03:15	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/17/2021 03:15	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/17/2021 03:15	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/17/2021 03:15	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/17/2021 03:15	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/17/2021 03:15	WG1790298
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*12/17/2021 03:15*	WG1790298
(S) Toluene-d8	*96.6*			*80.0-120*		*12/17/2021 03:15*	WG1790298
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*12/17/2021 03:15*	WG1790298

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	0.00439	U	0.00439	0.0204	1.02	12/20/2021 09:10	WG1790280
Ethylene Dibromide	0.00245	U	0.00245	0.0102	1.02	12/20/2021 09:10	WG1790280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.94	ft
pH (On Site)	7.88	su
Temperature (on-site)	25.1	Deg. C
Specific Conductance (on site)	335	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	2.3	NTU
eH/ORP (On Site)	127	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	24.2		0.0519	1.00	1	12/20/2021 20:07	WG1792435

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	12/20/2021 16:20	WG1792187

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	9.42		0.0111	1.00	1	12/22/2021 05:17	WG1792394

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	68.21	ft
pH (On Site)	7.39	su
Temperature (on-site)	24.3	Deg. C
Specific Conductance (on site)	344	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	2.5	NTU
eH/ORP (On Site)	38	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	262		10.0	1	12/15/2021 19:46	WG1789991

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	12.6		0.0519	1.00	1	12/19/2021 12:54	WG1791889

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	12/20/2021 16:23	WG1792187

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	12/22/2021 09:13	WG1790261

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.58		0.0111	1.00	1	12/22/2021 05:19	WG1792394

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	12/22/2021 05:19	WG1792394
Barium,Total Recoverable	18.6		1.70	5.00	1	12/22/2021 05:19	WG1792394
Cadmium, Total Recoverable	0.700	U	0.700	2.00	1	12/22/2021 05:19	WG1792394
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/22/2021 05:19	WG1792394
Chromium, Total Recoverable	1.40	U	1.40	10.0	1	12/22/2021 05:19	WG1792394
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/22/2021 05:19	WG1792394
Iron, Total Recoverable	774		14.1	100	1	12/22/2021 05:19	WG1792394
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/22/2021 05:19	WG1792394
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/22/2021 05:19	WG1792394
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/22/2021 05:19	WG1792394
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/22/2021 05:19	WG1792394
Zinc, Total Recoverable	5.90	U	5.90	50.0	1	12/22/2021 05:19	WG1792394

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	1.22	I V	0.250	2.00	1	12/21/2021 13:58	WG1792404
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/21/2021 13:58	WG1792404
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/21/2021 13:58	WG1792404
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/21/2021 13:58	WG1792404

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	12/17/2021 03:37	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:37	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/17/2021 03:37	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:37	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/17/2021 03:37	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/17/2021 03:37	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/17/2021 03:37	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/17/2021 03:37	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/17/2021 03:37	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/17/2021 03:37	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/17/2021 03:37	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/17/2021 03:37	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/17/2021 03:37	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/17/2021 03:37	WG1790298
Acetone	6.86	I V	1.05	25.0	1	12/17/2021 03:37	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/17/2021 03:37	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/17/2021 03:37	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/17/2021 03:37	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/17/2021 03:37	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/17/2021 03:37	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/17/2021 03:37	WG1790298
Carbon disulfide	0.101	J U	0.101	0.500	1	12/17/2021 03:37	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/17/2021 03:37	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/17/2021 03:37	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/17/2021 03:37	WG1790298
Chloroform	0.0860	U	0.0860	0.500	1	12/17/2021 03:37	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/17/2021 03:37	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/17/2021 03:37	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/17/2021 03:37	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/17/2021 03:37	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/17/2021 03:37	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/17/2021 03:37	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/17/2021 03:37	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/17/2021 03:37	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/17/2021 03:37	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/17/2021 03:37	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/17/2021 03:37	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/17/2021 03:37	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/17/2021 03:37	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/17/2021 03:37	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/17/2021 03:37	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/17/2021 03:37	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/17/2021 03:37	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/17/2021 03:37	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/17/2021 03:37	WG1790298
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*12/17/2021 03:37*	WG1790298
(S) Toluene-d8	*94.7*			*80.0-120*		*12/17/2021 03:37*	WG1790298
(S) 1,2-Dichloroethane-d4	*91.5*			*70.0-130*		*12/17/2021 03:37*	WG1790298

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	0.00447	U	0.00447	0.0208	1.04	12/20/2021 09:23	WG1790280
Ethylene Dibromide	0.00250	U	0.00250	0.0104	1.04	12/20/2021 09:23	WG1790280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	55.07	ft
pH (On Site)	7.48	su
Temperature (on-site)	23.9	Deg. C
Specific Conductance (on site)	200	umhos/cm
Dissolved Oxygen (on-site)	.2	mg/l
Turbidity (on-site)	3.6	NTU
eH/ORP (On Site)	82	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5.79		0.0519	1.00	1	12/20/2021 20:19	WG1792435

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	12/20/2021 16:26	WG1792187

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.72		0.0111	1.00	1	12/22/2021 05:22	WG1792394

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	55.7	ft
pH (On Site)	6.91	su
Temperature (on-site)	23.4	Deg. C
Specific Conductance (on site)	259	umhos/cm
Dissolved Oxygen (on-site)	1.5	mg/l
Turbidity (on-site)	4.8	NTU
eH/ORP (On Site)	80	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	167		10.0	1	12/14/2021 19:25	WG1789344

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	13.7		0.0519	1.00	1	12/19/2021 13:57	WG1791889

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	12/20/2021 16:28	WG1792187

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	12/21/2021 11:59	WG1792066

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium,Total Recoverable	6.98	J	0.0111	1.00	1	12/24/2021 11:45	WG1793889

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	12/24/2021 11:45	WG1793889
Barium,Total Recoverable	24.2		1.70	5.00	1	12/24/2021 11:45	WG1793889
Cadmium, Total Recoverable	0.730	I	0.700	2.00	1	12/24/2021 11:45	WG1793889
Cobalt,Total Recoverable	2.30	U	2.30	10.0	1	12/24/2021 11:45	WG1793889
Chromium, Total Recoverable	1.75	I	1.40	10.0	1	12/24/2021 11:45	WG1793889
Copper, Total Recoverable	5.30	U	5.30	10.0	1	12/24/2021 11:45	WG1793889
Iron, Total Recoverable	143	V	14.1	100	1	12/24/2021 11:45	WG1793889
Nickel, Total Recoverable	4.90	U	4.90	10.0	1	12/24/2021 11:45	WG1793889
Lead, Total Recoverable	1.90	U	1.90	5.00	1	12/24/2021 11:45	WG1793889
Selenium, Total Recoverable	7.40	U	7.40	10.0	1	12/24/2021 11:45	WG1793889
Vanadium,Total Recoverable	2.40	U	2.40	20.0	1	12/24/2021 11:45	WG1793889
Zinc, Total Recoverable	7.09	I	5.90	50.0	1	12/24/2021 11:45	WG1793889

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic, Total Recoverable	1.17	I V	0.250	2.00	1	12/21/2021 14:01	WG1792404
Beryllium, Total Recoverable	0.120	U	0.120	2.00	1	12/21/2021 14:01	WG1792404
Antimony, Total Recoverable	0.754	U	0.754	2.00	1	12/21/2021 14:01	WG1792404
Thallium, Total Recoverable	0.190	U	0.190	2.00	1	12/21/2021 14:01	WG1792404

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	12/17/2021 03:58	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:58	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/17/2021 03:58	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/17/2021 03:58	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/17/2021 03:58	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/17/2021 03:58	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/17/2021 03:58	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/17/2021 03:58	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/17/2021 03:58	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/17/2021 03:58	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/17/2021 03:58	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/17/2021 03:58	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/17/2021 03:58	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/17/2021 03:58	WG1790298
Acetone	7.49	I V	1.05	25.0	1	12/17/2021 03:58	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/17/2021 03:58	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/17/2021 03:58	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/17/2021 03:58	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/17/2021 03:58	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/17/2021 03:58	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/17/2021 03:58	WG1790298
Carbon disulfide	0.101	J U	0.101	0.500	1	12/17/2021 03:58	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/17/2021 03:58	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/17/2021 03:58	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/17/2021 03:58	WG1790298
Chloroform	0.0860	U	0.0860	0.500	1	12/17/2021 03:58	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/17/2021 03:58	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/17/2021 03:58	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/17/2021 03:58	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/17/2021 03:58	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/17/2021 03:58	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/17/2021 03:58	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/17/2021 03:58	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/17/2021 03:58	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/17/2021 03:58	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/17/2021 03:58	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/17/2021 03:58	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/17/2021 03:58	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/17/2021 03:58	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/17/2021 03:58	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/17/2021 03:58	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/17/2021 03:58	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/17/2021 03:58	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/17/2021 03:58	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/17/2021 03:58	WG1790298
(S) 4-Bromofluorobenzene	*98.9*			*77.0-126*		*12/17/2021 03:58*	WG1790298
(S) Toluene-d8	*88.9*			*80.0-120*		*12/17/2021 03:58*	WG1790298
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*12/17/2021 03:58*	WG1790298

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	0.00447	U	0.00447	0.0208	1.04	12/20/2021 09:36	WG1790280
Ethylene Dibromide	0.00250	U	0.00250	0.0104	1.04	12/20/2021 09:36	WG1790280

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	66.2	ft
pH (On Site)	7.36	su
Temperature (on-site)	24.5	Deg. C
Specific Conductance (on site)	447	umhos/cm
Dissolved Oxygen (on-site)	.4	mg/l
Turbidity (on-site)	2.4	NTU
eH/ORP (On Site)	37	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate as (N)	1.82		0.0227	0.100	1	12/15/2021 19:01	WG1790074

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	54.39	ft
pH (On Site)	5.7	su
Temperature (on-site)	26.1	Deg. C
Specific Conductance (on site)	39	umhos/cm
Dissolved Oxygen (on-site)	5	mg/l
Turbidity (on-site)	2.4	NTU
eH/ORP (On Site)	126	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate as (N)	0.939		0.0227	0.100	1	12/15/2021 19:13	WG1790074

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	53.84	ft
pH (On Site)	5.44	su
Temperature (on-site)	25.2	Deg. C
Specific Conductance (on site)	360	umhos/cm
Dissolved Oxygen (on-site)	2.3	mg/l
Turbidity (on-site)	2.4	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	
Nitrate as (N)	5.62		0.0227	0.100	1	12/15/2021 19:36	WG1790074

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	67.78	ft
pH (On Site)	7.46	su
Temperature (on-site)	24.8	Deg. C
Specific Conductance (on site)	346	umhos/cm
Dissolved Oxygen (on-site)	1	mg/l
Turbidity (on-site)	2.4	NTU
eH/ORP (On Site)	29	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate as (N)	11.0		0.114	0.500	5	12/15/2021 20:11	WG1790074

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Sampling Method	BP	
Groundwater Elevation	55.48	ft
pH (On Site)	6.86	su
Temperature (on-site)	24.3	Deg. C
Specific Conductance (on site)	258	umhos/cm
Dissolved Oxygen (on-site)	1.5	mg/l
Turbidity (on-site)	4.3	NTU
eH/ORP (On Site)	67	mV

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate as (N)	3.85		0.0227	0.100	1	12/15/2021 20:23	WG1790074

Additional Information - Results for field analyses are not accredited to ISO 17025

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	12/16/2021 22:18	WG1790298
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500	1	12/16/2021 22:18	WG1790298
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500	1	12/16/2021 22:18	WG1790298
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500	1	12/16/2021 22:18	WG1790298
1,1-Dichloroethane	0.114	U	0.114	0.500	1	12/16/2021 22:18	WG1790298
1,1-Dichloroethene	0.188	U	0.188	0.500	1	12/16/2021 22:18	WG1790298
1,2,3-Trichloropropane	0.247	U	0.247	2.50	1	12/16/2021 22:18	WG1790298
1,2-Dichlorobenzene	0.101	U	0.101	0.500	1	12/16/2021 22:18	WG1790298
1,2-Dichloroethane	0.108	U	0.108	0.500	1	12/16/2021 22:18	WG1790298
1,2-Dichloropropane	0.190	U	0.190	0.500	1	12/16/2021 22:18	WG1790298
1,4-Dichlorobenzene	0.121	U	0.121	0.500	1	12/16/2021 22:18	WG1790298
2-Butanone (MEK)	1.28	U	1.28	5.00	1	12/16/2021 22:18	WG1790298
2-Hexanone	0.757	U	0.757	5.00	1	12/16/2021 22:18	WG1790298
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00	1	12/16/2021 22:18	WG1790298
Acetone	7.07	I V	1.05	25.0	1	12/16/2021 22:18	WG1790298
Acrylonitrile	0.873	U	0.873	5.00	1	12/16/2021 22:18	WG1790298
Benzene	0.0896	U	0.0896	0.500	1	12/16/2021 22:18	WG1790298
Bromochloromethane	0.145	U	0.145	0.500	1	12/16/2021 22:18	WG1790298
Bromodichloromethane	0.0800	U	0.0800	0.500	1	12/16/2021 22:18	WG1790298
Bromoform	0.186	U	0.186	0.500	1	12/16/2021 22:18	WG1790298
Bromomethane	0.157	J U	0.157	2.50	1	12/16/2021 22:18	WG1790298
Carbon disulfide	0.256	I J V	0.101	0.500	1	12/16/2021 22:18	WG1790298
Carbon tetrachloride	0.159	U	0.159	0.500	1	12/16/2021 22:18	WG1790298
Chlorobenzene	0.140	U	0.140	0.500	1	12/16/2021 22:18	WG1790298
Chloroethane	0.141	J U	0.141	2.50	1	12/16/2021 22:18	WG1790298
Chloroform	0.0860	U	0.0860	0.500	1	12/16/2021 22:18	WG1790298
Chloromethane	0.153	U	0.153	1.25	1	12/16/2021 22:18	WG1790298
Dibromochloromethane	0.128	U	0.128	0.500	1	12/16/2021 22:18	WG1790298
Dibromomethane	0.117	U	0.117	0.500	1	12/16/2021 22:18	WG1790298
Ethylbenzene	0.158	U	0.158	0.500	1	12/16/2021 22:18	WG1790298
Iodomethane	0.377	J U	0.377	10.0	1	12/16/2021 22:18	WG1790298
Methylene Chloride	1.07	U	1.07	2.50	1	12/16/2021 22:18	WG1790298
Styrene	0.117	U	0.117	0.500	1	12/16/2021 22:18	WG1790298
Tetrachloroethene	0.199	U	0.199	0.500	1	12/16/2021 22:18	WG1790298
Toluene	0.412	U	0.412	0.500	1	12/16/2021 22:18	WG1790298
Trichloroethene	0.153	J U	0.153	0.500	1	12/16/2021 22:18	WG1790298
Trichlorofluoromethane	0.130	J U	0.130	2.50	1	12/16/2021 22:18	WG1790298
Vinyl acetate	0.645	J U	0.645	5.00	1	12/16/2021 22:18	WG1790298
Vinyl chloride	0.118	J U	0.118	0.500	1	12/16/2021 22:18	WG1790298
Xylenes, Total	0.316	U	0.316	1.50	1	12/16/2021 22:18	WG1790298
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500	1	12/16/2021 22:18	WG1790298
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500	1	12/16/2021 22:18	WG1790298
trans-1,2-Dichloroethene	0.152	U	0.152	0.500	1	12/16/2021 22:18	WG1790298
trans-1,3-Dichloropropene	0.222	U	0.222	0.500	1	12/16/2021 22:18	WG1790298
trans-1,4-Dichloro-2-butene	0.257	J U	0.257	5.00	1	12/16/2021 22:18	WG1790298
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*12/16/2021 22:18*	WG1790298
(S) Toluene-d8	*92.9*			*80.0-120*		*12/16/2021 22:18*	WG1790298
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*12/16/2021 22:18*	WG1790298

Method Blank (MB)

(MB) R3740581-1 12/10/21 22:08

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

L1439831-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1439831-03 12/10/21 22:08 • (DUP) R3740581-3 12/10/21 22:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1790	1810	1	1.45		5

L1439831-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1439831-04 12/10/21 22:08 • (DUP) R3740581-4 12/10/21 22:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2420	2400	1	0.829		5

Laboratory Control Sample (LCS)

(LCS) R3740581-2 12/10/21 22:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8530	96.9	77.4-123	

Method Blank (MB)

(MB) R3740612-1 12/12/21 17:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	3.00		2.82	10.0

L1440359-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1440359-04 12/12/21 17:45 • (DUP) R3740612-3 12/12/21 17:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2230	2460	1	9.49	J	5

L1440681-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1440681-01 12/12/21 17:45 • (DUP) R3740612-4 12/12/21 17:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1360	1480	1	8.61	J	5

Laboratory Control Sample (LCS)

(LCS) R3740612-2 12/12/21 17:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8300	94.3	77.4-123	

Method Blank (MB)

(MB) R3741030-1 12/13/21 13:29

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

L1439589-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1439589-03 12/13/21 13:29 • (DUP) R3741030-3 12/13/21 13:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1620	1710	1	5.04	J	5

L1440181-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1440181-01 12/13/21 13:29 • (DUP) R3741030-4 12/13/21 13:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1060	1130	1	5.97	J	5

Laboratory Control Sample (LCS)

(LCS) R3741030-2 12/13/21 13:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8210	93.3	77.4-123	

Method Blank (MB)

(MB) R3741036-1 12/13/21 16:36

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

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3741036-3 12/13/21 16:36

Analyte	Original Result	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids		331	1	1.22		5

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3741036-4 12/13/21 16:36

Analyte	Original Result	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids		425	1	3.11		5

Laboratory Control Sample (LCS)

(LCS) R3741036-2 12/13/21 16:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8630	98.1	77.4-123	

Method Blank (MB)

(MB) R3741577-1 12/14/21 20:50

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

L1441247-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1441247-01 12/14/21 20:50 • (DUP) R3741577-3 12/14/21 20:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	737	735	1	0.361		5

L1441254-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1441254-03 12/14/21 20:50 • (DUP) R3741577-4 12/14/21 20:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2820	2800	1	0.712		5

Laboratory Control Sample (LCS)

(LCS) R3741577-2 12/14/21 20:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8570	97.4	77.4-123	

Method Blank (MB)

(MB) R3741096-1 12/14/21 19:25

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

L1441386-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1441386-02 12/14/21 19:25 • (DUP) R3741096-3 12/14/21 19:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	899	920	1	2.35		5

L1441386-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1441386-04 12/14/21 19:25 • (DUP) R3741096-4 12/14/21 19:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	610	632	1	3.54		5

Laboratory Control Sample (LCS)

(LCS) R3741096-2 12/14/21 19:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8180	93.0	77.4-123	

Method Blank (MB)

(MB) R3742005-1 12/15/21 19:46

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

L1440779-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1440779-15 12/15/21 19:46 • (DUP) R3742005-3 12/15/21 19:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2020	2000	1	0.622		5

L1441858-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1441858-01 12/15/21 19:46 • (DUP) R3742005-4 12/15/21 19:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	888	884	1	0.451		5

Laboratory Control Sample (LCS)

(LCS) R3742005-2 12/15/21 19:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8720	99.1	77.4-123	

Method Blank (MB)

(MB) R3741112-9 12/10/21 07:20

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

L1440207-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-01 12/10/21 08:53 • (DUP) R3741112-11 12/10/21 09:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.83	6.82	1	0.0820		20
Nitrate	0.439	0.483	1	9.59		20

Laboratory Control Sample (LCS)

(LCS) R3741112-10 12/10/21 07:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.4	101	90.0-110	
Nitrate	8.00	8.12	102	90.0-110	

L1440207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-01 12/10/21 08:53 • (MS) R3741112-12 12/10/21 09:40 • (MSD) R3741112-13 12/10/21 09:52

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	6.83	57.6	57.7	102	102	1	80.0-120			0.159	20
Nitrate	5.00	0.439	5.57	5.58	103	103	1	80.0-120			0.156	20

QUALITY CONTROL SUMMARY

L1440207-26,27,28,29,30

Method Blank (MB)

(MB) R3743312-1 12/15/21 18:38

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

L1440207-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-27 12/15/21 19:13 • (DUP) R3743312-3 12/15/21 19:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	0.939	0.907	1	3.49		20

L1442422-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1442422-18 12/16/21 02:02 • (DUP) R3743312-6 12/16/21 02:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate	1.79	1.77	1	1.27		20

Laboratory Control Sample (LCS)

(LCS) R3743312-2 12/15/21 18:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate	8.00	8.04	100	90.0-110	

L1440207-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-28 12/15/21 19:36 • (MS) R3743312-4 12/15/21 19:48 • (MSD) R3743312-5 12/15/21 20:00

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 %
Nitrate	5.00	5.62	10.4	10.4	96.1	96.2	1	80.0-120	L	L	0.0796	20

L1442422-18 Original Sample (OS) • Matrix Spike (MS)

(OS) L1442422-18 12/16/21 02:02 • (MS) R3743312-7 12/16/21 02:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate	5.00	1.79	6.64	97.0	1	80.0-120	

Method Blank (MB)

(MB) R3742616-1 12/18/21 20:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.121		0.0519	1.00

L1444046-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1444046-04 12/19/21 00:50 • (DUP) R3742616-3 12/19/21 01:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.99	9.91	1	0.758		20

L1441504-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1441504-01 12/19/21 04:03 • (DUP) R3742616-6 12/19/21 04:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	17.6	15.6	1	12.3		20

Laboratory Control Sample (LCS)

(LCS) R3742616-2 12/18/21 21:11

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

L1444046-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1444046-04 12/19/21 00:50 • (MS) R3742616-4 12/19/21 01:16 • (MSD) R3742616-5 12/19/21 01:29

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	9.99	61.5	61.4	103	103	1	80.0-120			0.129	20

L1441504-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1441504-01 12/19/21 04:03 • (MS) R3742616-7 12/19/21 04:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	17.6	67.0	98.8	1	80.0-120	

Method Blank (MB)

(MB) R3744532-1 12/19/21 11:14

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

L1440207-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-23 12/19/21 12:54 • (DUP) R3744532-3 12/19/21 13:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.6	12.5	1	0.410		20

L1442515-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1442515-01 12/19/21 15:01 • (DUP) R3744532-6 12/19/21 15:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	51.8	51.5	1	0.506		20

Laboratory Control Sample (LCS)

(LCS) R3744532-2 12/19/21 11:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	96.0	90.0-110	

L1440207-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-23 12/19/21 12:54 • (MS) R3744532-4 12/19/21 13:25 • (MSD) R3744532-5 12/19/21 13:41

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	12.6	64.3	64.1	103	103	1	80.0-120			0.401	20

L1442515-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1442515-01 12/19/21 15:01 • (MS) R3744532-7 12/19/21 16:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	51.8	101	99.0	1	80.0-120	L

Method Blank (MB)

(MB) R3744426-1 12/20/21 09:52

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

L1439267-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1439267-01 12/20/21 15:26 • (DUP) R3744426-3 12/20/21 15:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	81.2	81.0	1	0.312		20

L1439292-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1439292-03 12/20/21 20:31 • (DUP) R3744426-6 12/20/21 20:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.5	12.4	1	0.199		20

Laboratory Control Sample (LCS)

(LCS) R3744426-2 12/20/21 10:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.2	90.0-110	

L1439267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1439267-01 12/20/21 15:26 • (MS) R3744426-4 12/20/21 15:50 • (MSD) R3744426-5 12/20/21 16:02

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	81.2	127	127	91.7	91.6	1	80.0-120	L	L	0.0295	20

L1439292-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1439292-03 12/20/21 20:31 • (MS) R3744426-7 12/20/21 20:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	12.5	62.9	101	1	80.0-120	

Method Blank (MB)

(MB) R3745328-1 12/27/21 21:24

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

L1440207-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-06 12/28/21 00:41 • (DUP) R3745328-3 12/28/21 00:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.11	9.11	1	0.0450		20

L1440979-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1440979-03 12/28/21 05:20 • (DUP) R3745328-6 12/28/21 05:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.83	2.85	1	0.779		20

Laboratory Control Sample (LCS)

(LCS) R3745328-2 12/27/21 21:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	90.0-110	

L1440207-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-08 12/28/21 01:14 • (MS) R3745328-4 12/28/21 01:30 • (MSD) R3745328-5 12/28/21 01:47

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	21.6	73.0	73.1	103	103	1	80.0-120			0.129	20

L1440979-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1440979-04 12/28/21 05:53 • (MS) R3745328-7 12/28/21 06:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	2.35	53.3	102	1	80.0-120	

QUALITY CONTROL SUMMARY

L1440207-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,17,18,19,20,21

Method Blank (MB)

(MB) R3742801-1 12/20/21 13:56

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

L1440207-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-02 12/20/21 14:04 • (DUP) R3742801-5 12/20/21 14:05

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

L1440207-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-12 12/20/21 14:26 • (DUP) R3742801-7 12/20/21 14:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	1.62	1.66	1	2.32		10

Laboratory Control Sample (LCS)

(LCS) R3742801-2 12/20/21 13:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.42	98.9	90.0-110	

L1440207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-01 12/20/21 13:59 • (MS) R3742801-3 12/20/21 14:01 • (MSD) R3742801-4 12/20/21 14:02

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	4.94	5.01	98.8	100	1	90.0-110			1.35	10

L1440207-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1440207-11 12/20/21 14:23 • (MS) R3742801-6 12/20/21 14:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.0317	4.87	97.4	1	90.0-110	

Method Blank (MB)

(MB) R3742878-1 12/20/21 16:17

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

L1440207-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-23 12/20/21 16:23 • (DUP) R3742878-4 12/20/21 16:25

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

L1441891-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1441891-02 12/20/21 16:50 • (DUP) R3742878-7 12/20/21 16:56

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

Laboratory Control Sample (LCS)

(LCS) R3742878-2 12/20/21 16:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.66	102	90.0-110	

L1440207-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L1440207-22 12/20/21 16:20 • (MS) R3742878-3 12/20/21 16:22

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	4.87	97.5	1	90.0-110	

L1441891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1441891-01 12/20/21 16:46 • (MS) R3742878-5 12/20/21 16:47 • (MSD) R3742878-6 12/20/21 16:49

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	4.94	4.93	98.8	98.5	1	90.0-110			0.304	10

Method Blank (MB)

(MB) R3740428-1 12/14/21 10:44

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) R3740428-2 12/14/21 10:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.11	104	80.0-120	

L1440362-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440362-01 12/14/21 10:48 • (MS) R3740428-3 12/14/21 10:50 • (MSD) R3740428-4 12/14/21 10:52

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	2.99	2.98	99.6	99.4	1	75.0-125			0.248	20

Method Blank (MB)

(MB) R3741977-1 12/17/21 11:49

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Mercury	0.0519		0.0490	0.200

Laboratory Control Sample (LCS)

(LCS) R3741977-2 12/17/21 11:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.18	106	80.0-120	

L1440359-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440359-01 12/17/21 11:52 • (MS) R3741977-3 12/17/21 11:54 • (MSD) R3741977-4 12/17/21 11:56

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	3.24	3.07	108	102	1	75.0-125			5.39	20

Method Blank (MB)

(MB) R3743819-1 12/22/21 09:31

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) R3743819-2 12/22/21 09:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.31	110	80.0-120	

L1440207-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-17 12/22/21 09:35 • (MS) R3743819-3 12/22/21 09:37 • (MSD) R3743819-4 12/22/21 09:39

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	3.24	3.28	108	109	1	75.0-125			1.10	20

Method Blank (MB)

(MB) R3743668-1 12/22/21 08:58

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) R3743668-2 12/22/21 09:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.08	103	80.0-120	

L1442227-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1442227-02 12/22/21 09:02 • (MS) R3743668-3 12/22/21 09:04 • (MSD) R3743668-4 12/22/21 09:07

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	3.14	104	105	1	75.0-125			0.319	20

Method Blank (MB)

(MB) R3743262-1 12/21/21 11:46

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) R3743262-2 12/21/21 11:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	3.00	3.56	119	80.0-120	

L1441386-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1441386-01 12/21/21 11:50 • (MS) R3743262-3 12/21/21 11:52 • (MSD) R3743262-4 12/21/21 11:58

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 %
Mercury	3.00	0.0490	3.65	3.66	122	122	1	75.0-125			0.219	20

Method Blank (MB)

(MB) R3743752-1 12/22/21 04:31

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	0.0270		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) R3743752-2 12/22/21 04:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	945	94.5	80.0-120	
Cadmium	1000	918	91.8	80.0-120	
Chromium	1000	897	89.7	80.0-120	
Cobalt	1000	905	90.5	80.0-120	
Copper	1000	942	94.2	80.0-120	
Iron	10000	8970	89.7	80.0-120	
Lead	1000	910	91.0	80.0-120	
Nickel	1000	919	91.9	80.0-120	
Selenium	1000	947	94.7	80.0-120	
Silver	200	179	89.3	80.0-120	
Sodium	10.0	9.61	96.1	80.0-120	
Vanadium	1000	955	95.5	80.0-120	
Zinc	1000	886	88.6	80.0-120	

L1440207-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-02 12/22/21 04:36 • (MS) R3743752-4 12/22/21 04:42 • (MSD) R3743752-5 12/22/21 04:44

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	39.3	981	992	94.2	95.3	1	75.0-125			1.10	20
Cadmium	1000	0.700	926	938	92.6	93.8	1	75.0-125			1.23	20
Chromium	1000	1.40	899	926	89.9	92.6	1	75.0-125			3.04	20
Cobalt	1000	2.30	909	922	90.9	92.2	1	75.0-125			1.36	20
Copper	1000	5.30	950	968	95.0	96.8	1	75.0-125			1.90	20
Iron	10000	73.4	8980	9220	89.1	91.5	1	75.0-125			2.65	20
Lead	1000	1.90	913	930	91.3	93.0	1	75.0-125			1.83	20
Nickel	1000	4.90	920	937	92.0	93.7	1	75.0-125			1.78	20
Selenium	1000	7.40	958	972	95.8	97.2	1	75.0-125			1.44	20
Silver	200	2.80	181	185	90.5	92.7	1	75.0-125			2.45	20
Sodium	10.0	4.66	14.1	14.5	94.2	97.9	1	75.0-125			2.60	20
Vanadium	1000	2.40	951	975	95.1	97.5	1	75.0-125			2.46	20
Zinc	1000	8.64	887	905	87.8	89.6	1	75.0-125			2.01	20

Method Blank (MB)

(MB) R3740615-1 12/14/21 10:48

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	0.0835		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) R3740615-2 12/14/21 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	959	95.9	80.0-120	
Cadmium	1000	987	98.7	80.0-120	
Chromium	1000	982	98.2	80.0-120	
Cobalt	1000	949	94.9	80.0-120	
Copper	1000	959	95.9	80.0-120	
Iron	10000	9670	96.7	80.0-120	
Lead	1000	930	93.0	80.0-120	
Nickel	1000	936	93.6	80.0-120	
Selenium	1000	946	94.6	80.0-120	
Silver	200	190	94.9	80.0-120	
Sodium	10.0	9.84	98.4	80.0-120	
Vanadium	1000	929	92.9	80.0-120	
Zinc	1000	956	95.6	80.0-120	

L1438738-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1438738-01 12/14/21 10:53 • (MS) R3740615-4 12/14/21 10:58 • (MSD) R3740615-5 12/14/21 11:01

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	121	1060	1070	94.4	94.4	1	75.0-125			0.0306	20
Cadmium	1000	0.863	1010	1010	101	101	1	75.0-125			0.205	20
Chromium	1000	1.40	971	972	97.1	97.2	1	75.0-125			0.144	20
Cobalt	1000	2.30	961	967	95.9	96.5	1	75.0-125			0.615	20
Copper	1000	5.30	960	962	96.0	96.2	1	75.0-125			0.227	20
Iron	10000	1520	11000	11000	94.7	94.7	1	75.0-125			0.00127	20
Lead	1000	1.90	943	945	94.3	94.5	1	75.0-125			0.230	20
Nickel	1000	4.90	948	951	94.5	94.8	1	75.0-125			0.284	20
Selenium	1000	11.4	981	979	97.0	96.8	1	75.0-125			0.188	20
Silver	200	2.80	195	194	97.5	96.8	1	75.0-125			0.737	20
Sodium	10.0	118	124	123	58.4	51.9	1	75.0-125	J	J	0.532	20
Vanadium	1000	2.40	938	928	93.8	92.8	1	75.0-125			1.03	20
Zinc	1000	5.90	951	947	95.1	94.7	1	75.0-125			0.414	20

QUALITY CONTROL SUMMARY

L1440207-18,19,20,21,22,23,24

Method Blank (MB)

(MB) R3743732-1 12/22/21 04:31

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) R3743732-2 12/22/21 04:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	992	99.2	80.0-120	
Cadmium	1000	900	90.0	80.0-120	
Chromium	1000	921	92.1	80.0-120	
Cobalt	1000	956	95.6	80.0-120	
Copper	1000	978	97.8	80.0-120	
Iron	10000	9500	95.0	80.0-120	
Lead	1000	954	95.4	80.0-120	
Nickel	1000	955	95.5	80.0-120	
Selenium	1000	900	90.0	80.0-120	
Silver	200	178	89.1	80.0-120	
Sodium	10.0	9.87	98.7	80.0-120	
Vanadium	1000	964	96.4	80.0-120	
Zinc	1000	919	91.9	80.0-120	

L1438060-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1438060-01 12/22/21 04:36 • (MS) R3743732-4 12/22/21 04:41 • (MSD) R3743732-5 12/22/21 04:44

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	843	1810	1780	97.0	93.9	1	75.0-125			1.76	20
Cadmium	1000	0.700	989	954	98.9	95.4	1	75.0-125			3.61	20
Chromium	1000	38.4	978	946	94.0	90.7	1	75.0-125			3.38	20
Cobalt	1000	18.2	1050	1020	103	99.9	1	75.0-125			3.41	20
Copper	1000	22.6	1080	1040	105	102	1	75.0-125			3.41	20
Iron	10000	5280	14600	14300	92.8	90.2	1	75.0-125			1.77	20
Lead	1000	3.39	1010	978	100	97.5	1	75.0-125			3.01	20
Nickel	1000	163	1190	1150	102	98.9	1	75.0-125			3.01	20
Silver	200	2.80	197	191	98.7	95.6	1	75.0-125			3.17	20
Sodium	10.0	759	755	756	0.000	0.000	1	75.0-125	J	J	0.157	20
Vanadium	1000	29.9	1020	985	98.8	95.5	1	75.0-125			3.25	20
Zinc	1000	113	1050	1030	94.1	91.2	1	75.0-125			2.78	20

Method Blank (MB)

(MB) R3744928-1 12/24/21 11:40

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	21.2	J	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	0.0493		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) R3744928-2 12/24/21 11:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	909	90.9	80.0-120	
Cadmium	1000	878	87.8	80.0-120	
Chromium	1000	887	88.7	80.0-120	
Cobalt	1000	890	89.0	80.0-120	
Copper	1000	899	89.9	80.0-120	
Iron	10000	8870	88.7	80.0-120	
Lead	1000	877	87.7	80.0-120	
Nickel	1000	871	87.1	80.0-120	
Selenium	1000	868	86.8	80.0-120	
Silver	200	177	88.3	80.0-120	
Sodium	10.0	9.15	91.5	80.0-120	
Vanadium	1000	884	88.4	80.0-120	
Zinc	1000	865	86.5	80.0-120	

L1440207-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440207-25 12/24/21 11:45 • (MS) R3744928-4 12/24/21 11:51 • (MSD) R3744928-5 12/24/21 11:54

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	24.2	937	932	91.3	90.8	1	75.0-125			0.556	20
Cadmium	1000	0.730	890	885	89.0	88.5	1	75.0-125			0.549	20
Chromium	1000	1.75	890	877	88.8	87.6	1	75.0-125			1.44	20
Cobalt	1000	2.30	898	893	89.8	89.3	1	75.0-125			0.601	20
Copper	1000	5.30	908	893	90.8	89.3	1	75.0-125			1.71	20
Iron	10000	143	9070	9010	89.3	88.6	1	75.0-125			0.673	20
Lead	1000	1.90	882	877	88.2	87.7	1	75.0-125			0.504	20
Nickel	1000	4.90	875	869	87.5	86.9	1	75.0-125			0.696	20
Selenium	1000	7.40	887	872	88.7	87.2	1	75.0-125			1.76	20
Silver	200	2.80	179	175	89.3	87.6	1	75.0-125			1.85	20
Sodium	10.0	6.98	15.9	15.9	89.2	88.9	1	75.0-125			0.212	20
Vanadium	1000	2.40	892	882	89.2	88.2	1	75.0-125			1.08	20
Zinc	1000	7.09	866	862	85.9	85.5	1	75.0-125			0.432	20

Method Blank (MB)

(MB) R3741071-1 12/15/21 14:24

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) R3741071-2 12/15/21 14:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	48.5	97.0	80.0-120	
Arsenic	50.0	46.9	93.8	80.0-120	
Beryllium	50.0	48.6	97.1	80.0-120	
Thallium	50.0	46.2	92.5	80.0-120	

L1440575-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440575-01 12/15/21 14:31 • (MS) R3741071-4 12/15/21 14:37 • (MSD) R3741071-5 12/15/21 14:40

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	52.2	51.2	104	102	1	75.0-125			1.81	20
Arsenic	50.0	0.250	47.7	48.6	95.4	97.3	1	75.0-125			1.93	20
Beryllium	50.0	0.179	47.8	48.6	95.6	97.2	1	75.0-125			1.66	20
Thallium	50.0	0.190	47.7	47.2	95.1	94.2	1	75.0-125			1.01	20

Method Blank (MB)

(MB) R3739776-1 12/12/21 19:30

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) R3739776-2 12/12/21 19:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	45.0	90.0	80.0-120	
Arsenic	50.0	44.8	89.6	80.0-120	
Beryllium	50.0	51.3	103	80.0-120	
Thallium	50.0	44.9	89.8	80.0-120	

L1440642-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1440642-06 12/12/21 19:37 • (MS) R3739776-4 12/12/21 19:44 • (MSD) R3739776-5 12/12/21 19:47

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	44.7	44.3	89.4	88.6	1	75.0-125			0.830	20
Arsenic	50.0	0.250	45.4	43.9	90.9	87.8	1	75.0-125			3.52	20
Beryllium	50.0	0.120	51.8	52.1	104	104	1	75.0-125			0.407	20
Thallium	50.0	0.190	45.4	45.8	90.5	91.3	1	75.0-125			0.873	20

Method Blank (MB)

(MB) R3743294-1 12/21/21 12:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	0.754	U	0.754	2.00
Arsenic	0.303	J	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) R3743294-2 12/21/21 12:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	48.6	97.1	80.0-120	
Arsenic	50.0	48.1	96.3	80.0-120	
Beryllium	50.0	47.0	94.0	80.0-120	
Thallium	50.0	47.3	94.6	80.0-120	

L1441155-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1441155-05 12/21/21 12:24 • (MS) R3743294-4 12/21/21 12:34 • (MSD) R3743294-5 12/21/21 12:38

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	50.7	50.5	101	101	1	75.0-125			0.539	20
Arsenic	50.0	1.94	50.1	49.1	96.3	94.4	1	75.0-125			1.94	20
Beryllium	50.0	0.120	49.1	47.2	98.2	94.3	1	75.0-125			4.01	20
Thallium	50.0	0.190	49.1	48.4	98.2	96.8	1	75.0-125			1.42	20

Method Blank (MB)

(MB) R3740585-3 12/11/21 06:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	1.05	U	1.05	25.0
Acrylonitrile	0.873	U	0.873	5.00
Benzene	0.0896	U	0.0896	0.500
Bromodichloromethane	0.0800	U	0.0800	0.500
Bromochloromethane	0.145	U	0.145	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
Dibromomethane	0.117	U	0.117	0.500
1,2-Dichlorobenzene	0.101	U	0.101	0.500
1,4-Dichlorobenzene	0.121	U	0.121	0.500
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00
1,1-Dichloroethane	0.114	U	0.114	0.500
1,2-Dichloroethane	0.108	U	0.108	0.500
1,1-Dichloroethene	0.188	U	0.188	0.500
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500
trans-1,2-Dichloroethene	0.152	U	0.152	0.500
1,2-Dichloropropane	0.190	U	0.190	0.500
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500
trans-1,3-Dichloropropene	0.222	U	0.222	0.500
Ethylbenzene	0.158	U	0.158	0.500
2-Hexanone	0.757	U	0.757	5.00
Iodomethane	0.377	U	0.377	10.0
2-Butanone (MEK)	1.28	U	1.28	5.00
Methylene Chloride	1.07	U	1.07	2.50
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00
Styrene	0.117	U	0.117	0.500
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500
Tetrachloroethene	0.199	U	0.199	0.500
Toluene	0.412	U	0.412	0.500
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500
Trichloroethene	0.153	U	0.153	0.500

Method Blank (MB)

(MB) R3740585-3 12/11/21 06:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichlorofluoromethane	0.130	U	0.130	2.50
1,2,3-Trichloropropane	0.247	U	0.247	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) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*110*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*

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

(LCS) R3740585-1 12/11/21 05:19 • (LCSD) R3740585-2 12/11/21 05:40

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 %
Acetone	25.0	30.4	28.5	122	114	19.0-160			6.45	27
Acrylonitrile	25.0	28.2	28.3	113	113	55.0-149			0.354	20
Benzene	5.00	5.54	5.27	111	105	70.0-123			5.00	20
Bromodichloromethane	5.00	5.53	5.11	111	102	75.0-120			7.89	20
Bromochloromethane	5.00	5.18	5.22	104	104	76.0-122			0.769	20
Bromoform	5.00	4.65	4.68	93.0	93.6	68.0-132			0.643	20
Bromomethane	5.00	2.42	2.56	48.4	51.2	10.0-160			5.62	25
Carbon disulfide	5.00	4.90	4.61	98.0	92.2	61.0-128			6.10	20
Carbon tetrachloride	5.00	5.54	5.08	111	102	68.0-126			8.66	20
Chlorobenzene	5.00	4.62	4.67	92.4	93.4	80.0-121			1.08	20
Chlorodibromomethane	5.00	4.69	4.48	93.8	89.6	77.0-125			4.58	20
Chloroethane	5.00	5.70	4.98	114	99.6	47.0-150			13.5	20
Chloroform	5.00	5.59	5.05	112	101	73.0-120			10.2	20
Chloromethane	5.00	4.57	3.95	91.4	79.0	41.0-142			14.6	20
Dibromomethane	5.00	5.24	4.96	105	99.2	80.0-120			5.49	20
1,2-Dichlorobenzene	5.00	4.44	4.16	88.8	83.2	79.0-121			6.51	20
1,4-Dichlorobenzene	5.00	4.55	4.40	91.0	88.0	79.0-120			3.35	20
trans-1,4-Dichloro-2-butene	5.00	3.42	3.59	68.4	71.8	33.0-144			4.85	20
1,1-Dichloroethane	5.00	5.42	5.06	108	101	70.0-126			6.87	20
1,2-Dichloroethane	5.00	5.17	5.00	103	100	70.0-128			3.34	20
1,1-Dichloroethene	5.00	5.43	4.65	109	93.0	71.0-124			15.5	20
cis-1,2-Dichloroethene	5.00	5.12	4.71	102	94.2	73.0-120			8.34	20
trans-1,2-Dichloroethene	5.00	5.17	4.77	103	95.4	73.0-120			8.05	20
1,2-Dichloropropane	5.00	5.43	4.94	109	98.8	77.0-125			9.45	20
cis-1,3-Dichloropropene	5.00	5.44	5.48	109	110	80.0-123			0.733	20

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

(LCS) R3740585-1 12/11/21 05:19 • (LCSD) R3740585-2 12/11/21 05:40

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 %
trans-1,3-Dichloropropene	5.00	4.87	4.85	97.4	97.0	78.0-124			0.412	20
Ethylbenzene	5.00	4.76	4.65	95.2	93.0	79.0-123			2.34	20
2-Hexanone	25.0	27.4	26.8	110	107	67.0-149			2.21	20
Iodomethane	25.0	11.5	14.5	46.0	58.0	33.0-147			23.1	26
2-Butanone (MEK)	25.0	30.3	29.4	121	118	44.0-160			3.02	20
Methylene Chloride	5.00	5.18	4.83	104	96.6	67.0-120			6.99	20
4-Methyl-2-pentanone (MIBK)	25.0	27.2	27.6	109	110	68.0-142			1.46	20
Styrene	5.00	4.70	4.74	94.0	94.8	73.0-130			0.847	20
1,1,1,2-Tetrachloroethane	5.00	4.77	4.87	95.4	97.4	75.0-125			2.07	20
1,1,2,2-Tetrachloroethane	5.00	4.70	4.60	94.0	92.0	65.0-130			2.15	20
Tetrachloroethene	5.00	4.87	4.94	97.4	98.8	72.0-132			1.43	20
Toluene	5.00	4.90	4.65	98.0	93.0	79.0-120			5.24	20
1,1,1-Trichloroethane	5.00	5.55	5.00	111	100	73.0-124			10.4	20
1,1,2-Trichloroethane	5.00	4.68	4.56	93.6	91.2	80.0-120			2.60	20
Trichloroethene	5.00	5.24	4.93	105	98.6	78.0-124			6.10	20
Trichlorofluoromethane	5.00	5.78	5.07	116	101	59.0-147			13.1	20
1,2,3-Trichloropropane	5.00	4.46	4.78	89.2	95.6	73.0-130			6.93	20
Vinyl acetate	25.0	22.6	23.1	90.4	92.4	11.0-160			2.19	20
Vinyl chloride	5.00	5.82	4.96	116	99.2	67.0-131			16.0	20
Xylenes, Total	15.0	14.5	13.9	96.7	92.7	79.0-123			4.23	20
(S) Toluene-d8				*109*	*111*	*80.0-120*				
(S) 4-Bromofluorobenzene				*107*	*109*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*116*	*117*	*70.0-130*				

Method Blank (MB)

(MB) R3741840-2 12/16/21 21:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	4.80		1.05	25.0
Acrylonitrile	0.873	U	0.873	5.00
Benzene	0.0896	U	0.0896	0.500
Bromodichloromethane	0.0800	U	0.0800	0.500
Bromochloromethane	0.145	U	0.145	0.500
Bromoform	0.186	U	0.186	0.500
Bromomethane	0.157	U	0.157	2.50
Carbon disulfide	0.252	J	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
Dibromomethane	0.117	U	0.117	0.500
1,2-Dichlorobenzene	0.101	U	0.101	0.500
1,4-Dichlorobenzene	0.121	U	0.121	0.500
trans-1,4-Dichloro-2-butene	0.257	U	0.257	5.00
1,1-Dichloroethane	0.114	U	0.114	0.500
1,2-Dichloroethane	0.108	U	0.108	0.500
1,1-Dichloroethene	0.188	U	0.188	0.500
cis-1,2-Dichloroethene	0.0933	U	0.0933	0.500
trans-1,2-Dichloroethene	0.152	U	0.152	0.500
1,2-Dichloropropane	0.190	U	0.190	0.500
cis-1,3-Dichloropropene	0.0976	U	0.0976	0.500
trans-1,3-Dichloropropene	0.222	U	0.222	0.500
Ethylbenzene	0.158	U	0.158	0.500
2-Hexanone	0.757	U	0.757	5.00
Iodomethane	0.377	U	0.377	10.0
2-Butanone (MEK)	1.28	U	1.28	5.00
Methylene Chloride	1.07	U	1.07	2.50
4-Methyl-2-pentanone (MIBK)	0.823	U	0.823	5.00
Styrene	0.117	U	0.117	0.500
1,1,1,2-Tetrachloroethane	0.120	U	0.120	0.500
1,1,2,2-Tetrachloroethane	0.130	U	0.130	0.500
Tetrachloroethene	0.199	U	0.199	0.500
Toluene	0.412	U	0.412	0.500
1,1,1-Trichloroethane	0.0940	U	0.0940	0.500
1,1,2-Trichloroethane	0.0940	U	0.0940	0.500
Trichloroethene	0.153	U	0.153	0.500

Method Blank (MB)

(MB) R3741840-2 12/16/21 21:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichlorofluoromethane	0.130	U	0.130	2.50
1,2,3-Trichloropropane	0.247	U	0.247	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) Toluene-d8	*98.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*108*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*

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

(LCS) R3741840-1 12/16/21 20:54 • (LCSD) R3741840-3 12/16/21 23:00

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 %
Acetone	25.0	20.4	17.5	81.6	70.0	19.0-160			15.3	27
Acrylonitrile	25.0	21.6	19.7	86.4	78.8	55.0-149			9.20	20
Benzene	5.00	5.18	4.65	104	93.0	70.0-123			10.8	20
Bromodichloromethane	5.00	5.10	4.45	102	89.0	75.0-120			13.6	20
Bromochloromethane	5.00	5.71	5.29	114	106	76.0-122			7.64	20
Bromoform	5.00	4.29	3.89	85.8	77.8	68.0-132			9.78	20
Bromomethane	5.00	2.31	2.98	46.2	59.6	10.0-160		J	25.3	25
Carbon disulfide	5.00	5.83	4.62	117	92.4	61.0-128		J	23.2	20
Carbon tetrachloride	5.00	4.77	4.23	95.4	84.6	68.0-126			12.0	20
Chlorobenzene	5.00	4.87	4.29	97.4	85.8	80.0-121			12.7	20
Chlorodibromomethane	5.00	4.66	4.25	93.2	85.0	77.0-125			9.20	20
Chloroethane	5.00	5.93	4.17	119	83.4	47.0-150		J	34.9	20
Chloroform	5.00	5.13	4.74	103	94.8	73.0-120			7.90	20
Chloromethane	5.00	3.95	3.55	79.0	71.0	41.0-142			10.7	20
Dibromomethane	5.00	5.44	4.99	109	99.8	80.0-120			8.63	20
1,2-Dichlorobenzene	5.00	4.74	4.20	94.8	84.0	79.0-121			12.1	20
1,4-Dichlorobenzene	5.00	4.83	4.20	96.6	84.0	79.0-120			14.0	20
trans-1,4-Dichloro-2-butene	5.00	1.76	2.19	35.2	43.8	33.0-144		J	21.8	20
1,1-Dichloroethane	5.00	5.07	4.56	101	91.2	70.0-126			10.6	20
1,2-Dichloroethane	5.00	4.88	4.39	97.6	87.8	70.0-128			10.6	20
1,1-Dichloroethene	5.00	5.51	4.82	110	96.4	71.0-124			13.4	20
cis-1,2-Dichloroethene	5.00	5.09	4.83	102	96.6	73.0-120			5.24	20
trans-1,2-Dichloroethene	5.00	5.27	4.60	105	92.0	73.0-120			13.6	20
1,2-Dichloropropane	5.00	5.03	4.54	101	90.8	77.0-125			10.2	20
cis-1,3-Dichloropropene	5.00	5.08	4.55	102	91.0	80.0-123			11.0	20

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

(LCS) R3741840-1 12/16/21 20:54 • (LCSD) R3741840-3 12/16/21 23:00

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 %
trans-1,3-Dichloropropene	5.00	4.51	4.40	90.2	88.0	78.0-124			2.47	20
Ethylbenzene	5.00	4.68	4.20	93.6	84.0	79.0-123			10.8	20
2-Hexanone	25.0	21.1	19.1	84.4	76.4	67.0-149			9.95	20
Iodomethane	25.0	11.9	8.36	47.6	33.4	33.0-147		J	34.9	26
2-Butanone (MEK)	25.0	19.3	17.4	77.2	69.6	44.0-160			10.4	20
Methylene Chloride	5.00	4.83	4.43	96.6	88.6	67.0-120			8.64	20
4-Methyl-2-pentanone (MIBK)	25.0	21.4	20.3	85.6	81.2	68.0-142			5.28	20
Styrene	5.00	4.76	3.90	95.2	78.0	73.0-130			19.9	20
1,1,1,2-Tetrachloroethane	5.00	4.86	4.16	97.2	83.2	75.0-125			15.5	20
1,1,2,2-Tetrachloroethane	5.00	4.31	4.24	86.2	84.8	65.0-130			1.64	20
Tetrachloroethene	5.00	5.09	4.57	102	91.4	72.0-132			10.8	20
Toluene	5.00	4.79	4.47	95.8	89.4	79.0-120			6.91	20
1,1,1-Trichloroethane	5.00	5.30	4.83	106	96.6	73.0-124			9.28	20
1,1,2-Trichloroethane	5.00	5.00	4.80	100	96.0	80.0-120			4.08	20
Trichloroethene	5.00	5.54	4.49	111	89.8	78.0-124		J	20.9	20
Trichlorofluoromethane	5.00	5.44	4.25	109	85.0	59.0-147		J	24.6	20
1,2,3-Trichloropropane	5.00	4.29	3.86	85.8	77.2	73.0-130			10.6	20
Vinyl acetate	25.0	17.9	28.2	71.6	113	11.0-160		J	44.7	20
Vinyl chloride	5.00	5.63	4.55	113	91.0	67.0-131		J	21.2	20
Xylenes, Total	15.0	14.4	12.4	96.0	82.7	79.0-123			14.9	20
(S) Toluene-d8				*94.6*	*97.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*105*	*98.4*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*96.8*	*94.7*	*70.0-130*				

QUALITY CONTROL SUMMARY

L1440207-01

Method Blank (MB)

(MB) R3740860-1 12/14/21 16:21

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

L1440177-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1440177-02 12/14/21 17:13 • (DUP) R3740860-3 12/14/21 17:00

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	0.00245	0.00245	1.02	0.000	U	20
1,2-Dibromo-3-Chloropropane	0.00439	0.00439	1.02	0.000	U	20

Sample Narrative:

OS: Dilution due to sample volume.

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

(LCS) R3740860-4 12/14/21 18:17 • (LCSD) R3740860-5 12/14/21 18:30

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	0.322	0.309	129	124	60.0-140			4.12	20
1,2-Dibromo-3-Chloropropane	0.250	0.264	0.261	106	104	60.0-140			1.14	20

L1441077-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1441077-01 12/14/21 16:47 • (MS) R3740860-2 12/14/21 16:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.102	0.00245	0.113	111	1.02	64.0-159	
1,2-Dibromo-3-Chloropropane	0.102	0.00439	0.117	115	1.02	72.0-148	

Sample Narrative:

OS: Dilution due to sample volume.

QUALITY CONTROL SUMMARY

L1440207-03,05,07,09,11,13,15

Method Blank (MB)

(MB) R3743349-1 12/18/21 20:51

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

L1440207-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-03 12/18/21 21:43 • (DUP) R3743349-3 12/18/21 21:30

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	0.00240	0.00245	1.02	0.000	U	20
1,2-Dibromo-3-Chloropropane	0.00430	0.00439	1.02	0.000	U	20

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

(LCS) R3743349-4 12/18/21 23:39 • (LCSD) R3743349-5 12/19/21 02:01

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	0.296	0.293	118	117	60.0-140			1.02	20
1,2-Dibromo-3-Chloropropane	0.250	0.244	0.245	97.6	98.0	60.0-140			0.409	20

L1440207-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1440207-05 12/18/21 21:17 • (MS) R3743349-2 12/18/21 21:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.106	0.00242	0.104	98.1	1.06	64.0-159	
1,2-Dibromo-3-Chloropropane	0.106	0.00434	0.110	104	1.06	72.0-148	

QUALITY CONTROL SUMMARY

L1440207-17,19,21,23,25

Method Blank (MB)

(MB) R3742732-1 12/20/21 08:05

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

L1440207-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1440207-17 12/20/21 08:57 • (DUP) R3742732-3 12/20/21 08:44

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) R3742732-4 12/20/21 10:54 • (LCSD) R3742732-5 12/20/21 13:20

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	0.288	0.284	115	114	60.0-140			1.40	20
1,2-Dibromo-3-Chloropropane	0.250	0.233	0.236	93.2	94.4	60.0-140			1.28	20

L1440207-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1440207-19 12/20/21 08:31 • (MS) R3742732-2 12/20/21 08:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.102	0.00247	0.0910	89.2	1.02	64.0-159	
1,2-Dibromo-3-Chloropropane	0.102	0.00443	0.102	100	1.02	72.0-148	

GLOSSARY OF TERMS

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.
L	Off-scale high. Actual value is known to be greater than value given.
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.

ACCREDITATIONS & LOCATIONS

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	LAO000356
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		

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

* 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 Analytical.

Company Name/Address:
Vista
4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres Chk

Report to:
Sheree Grant

Email To:
sgrant@wm.com;efoeller@wm.com;kguilbeault

Project Description:
Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: **407-902-1469**

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			
									2	2	2							
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		12-8	1157	10		X		X	X	X	X		X			-01
MW-3B	G	GW		12-8	1129	3	X		X		X							-02
MW-4A	G	GW		12-8	1309	10		X		X	X	X	X		X			-03
MW-4B	G	GW		12-8	1238	3	X		X		X							-04
MW-5A	G	GW		12-8	1413	10		X		X	X	X	X		X			-05
MW-5B	G	GW		12-8	1341	3	X		X		X							-06

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1440207

Tab F131

Acctnum: **WMVISFL**
Template: **T177993**
Prelogin: **P885415**
PM: **616 - Stacy Kennedy**
PB: 11/18/21 RM
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
	11/18/21	9AM		1-HCl 1-NaThio
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: Bottles Received:
	12-8-21	1630		1.6+0=1.6 10
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				12/9/21 0930

If preservation required by Login: Date/Time

Hold: | Condition: NCF / OK

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
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Company Name/Address: Vista
4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres Chk

Report to: Sheree Grant

Email To: sgrant@wm.com;efoeller@wm.com;kguilbeault

Project Description: Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: 407-902-1469

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

SDG # L1440207

Table #

Acctnum: WMVISFL
Template: T177993
Prelogin: P885415
PM: 616 - Stacy Kennedy
PB: MB 11/18/21
Shipped Via: FedEX Ground

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 (<2)	Metals 250mlHDPE-HNO3 (<2)	NH3 250mlHDPE-H2SO4 (<2)	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		GW				10		X		X	X	X	X		X			
MW-9A	G	GW		12-8	0954	10		X		X	X	X	X		X			-27
MW-9B	G	GW		12-8	0924	3	X		X		X							-28
MW-11A	G	GW		12-8	0851	10		X		X	X	X	X		X			-29
MW-11B	G	GW		12-8	0822	3	X		X		X							-30
MW-14A	G	GW		12-8	1028	10		X		X	X	X	X		X			-31

* 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	
[signature]	11/18/21	9AM	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: BX ACT 1.6+0=1.6 Bottles Received:	If preservation required by Login: Date/Time
[signature]	12-8-21	1630			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/21 Time: 0930	Hold: Condition: NCF / OK
			[signature]		

Company Name/Address:
Vista
4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Report to: **Sheree Grant**

Email To: **sgrant@wm.com;efoeller@wm.com;kguilbeault**

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

City/State Collected:

Please Circle: PT MT CT ET

Phone: **407-902-1469**

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		12-8	1050	3	X		X		X							-12
MW-15A	G	GW		12-8	0749	10		X		X	X	X	X		X			-13
MW-15B	G	GW		12-8	0715	3	X		X		X							-14
Equipment Blank	G	GW		12-8	1430	7		X		X	X	X	X					-15
TRIP BLANK		GW				2								X				-16
		GW				10		X		X	X	X	X		X			

Chain of Custody Page ___ of ___

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SDG # L1440207

Table #

Acctnum: **WMVISFL**

Template: **T177993**

Prelogin: **P885415**

PM: **616 - Stacy Kennedy**

PB: 11/19/21 VMD

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

	Date:	Time:		
Relinquished by : (Signature)	11/18/21	9AM	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	12-8-21	1630	Received by: (Signature)	Temp: BA 1.6+0=1.6 Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

U1440207

Tracking Numbers		Temperature
5318 9960 9980		2.9
9931		1.6

Company Name/Address:
Vista
4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres Chk

Report to:
Sheree Grant

Email To:
sgrant@wm.com;efoeller@wm.com;kguilbeault

Project Description:
Vista-Semiannual GW Parameters June Dec

City/State Collected:

Please Circle: PT MT CT ET

Phone: **407-902-1469**

Client Project #
200

Lab Project #
WMVISFL-00003

Collected by (print):
Dandy 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

Chain of Custody Page ___ of ___

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SDG L1440207

Table F131

Acctnum: WMVISFL
Template: T177993
Prelogin: P885415
PM: 616 - Stacy Kennedy
PB: 11/18/21 MM
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 40mlCir-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1A		GW		12/9	921	10		X		X	X	X	X		X		-17
MW-1B		GW		12/9	851	3	X		X		X						-18
MW-2AR		GW		12/9	1023	10		X		X	X	X	X		X		-19
MW-2B		GW		12/9	954	3	X		X		X						-20
MW-3A	G	GW		12-8	1157	10		X		X	X	X	X		X		-01
MW-3B	G	GW		12-8	1129	3	X		X		X						-02
MW-4A	G	GW		12-8	1309	10		X		X	X	X	X		X		-03
MW-4B	G	GW		12-8	1238	3	X		X		X						-04
MW-5A	G	GW		12-8	1413	10		X		X	X	X	X		X		-05
MW-5B	G	GW		12-8	1341	3	X		X		X						-06

* 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
	11/18/21	9AM		1-HCl 1-NaThio	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.6+0=1.6 Bottles Received: 10	
	12-8-21	1630			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/9/21 Time: 0930	Hold: Condition: NCF / OK

Company Name/Address: **Vista** 4978 LB McLeod Road Orlando, FL 32811	Billing Information: jhill16@wm.com P.O. Box 4745 WM A/P DEPARTMENT Portland, OR 97208-4745
Report to: Sheree Grant	Email To: sgrant@wm.com;efoeller@wm.com;kguilbeault
Project Description: Vista-Semiannual GW Parameters June Dec	City/State Collected:
Phone: 407-902-1469	Client Project # 200
Lab Project # WMVISFL-00003	P.O. #
Collected by (print): DANNY ARMOUR	Site/Facility ID # FL26
Collected by (signature): [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:	Pres Chk
Please Circle: PT MT CT ET	

Pace Analytical

Chain of Custody Page ___ of ___

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SDG # L1440207

Table #

Acctnum: WMVISFL
Template: T177993
Prelogin: P885415
PM: 616 - Stacy Kennedy
PB: MG 11/18/21
Shipped Via: FedEX Ground

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 (<2)	Metals 250mlHDPE-HNO3 (<2)	NH3 250mlHDPE-H2SO4 (<2)	SV8011 40mlClr-NaThio	TDS 250mlHDPE-NoPres	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl		Remarks	Sample # (lab only)
MW-6AR		GW		12/9	1138	4 / 10		X		X	X	X	X		X			-21
MW-6BR		GW		12/9	1059	3	X		X		X							-22
MW-7A		GW		12/9	825	10 / 4		X		X	X	X	X		X			-23
MW-7B		GW		12/9	745	3	X		X		X							-24
MW-8R		GW		12/9	711	9 / 10		X		X	X	X	X		X			-25
MW-9A	G	GW		12-8	0954	10		X		X	X	X	X		X			-27
MW-9B	G	GW		12-8	0924	3	X		X		X							-28
MW-11A	G	GW		12-8	0851	10		X		X	X	X	X		X			-29
MW-11B	G	GW		12-8	0822	3	X		X		X							-30
MW-14A	G	GW		12-8	1028	10		X		X	X	X	X		X			-31

* 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)	
[signature]	11/18/21	9AM	[signature]	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature) [signature]	Date: 12-8-21	Time: 1630	Received by: (Signature)	Temp: [illegible] 1.6+0=1.6 Bottles Received: 16
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 12/9/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Vista

4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres Chk

Report to: **Sheree Grant**

Email To: **sgrant@wm.com;efoeller@wm.com;kguilbeault**

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

City/State Collected:

Please Circle: PT MT CT ET

Phone: **407-902-1469**

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		12-8	1055	3	X		X		X							-12
MW-15A	G	GW		12-8	0749	10		X		X	X	X	X		X			-13
MW-15B	G	GW		12-8	0715	3	X		X		X							-14
Equipment Blank	G	GW		12-8	1430	7		X		X	X	X	X					-15
TRIP BLANK		GW				2								X				-16
		GW				10		X		X	X	X	X		X			

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1440207

Table #

Acctnum: WMVISFL

Template: T177993

Prelogin: P885415

PM: 616 - Stacy Kennedy

PB: 11/19/21 VMG

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)
	11/18/21	9AM	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12-8-21	1630	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: BA 1.6 +0 = 1.6 Bottles Received:

Date: 12/9/21 Time: 0930

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Vista
4978 LB McLeod Road
Orlando, FL 32811

Billing Information:
jhill16@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres Chk

Report to: **Sheree Grant**

Email To: **sgrant@wm.com;efoeller@wm.com;kguilbeault**

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

City/State Collected:

Please Circle: PT MT CT ET

Phone: **407-902-1469**

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	NITRATE 125mlHDPE-NoPres	SV8011 40mlClr-NaThio	V8260LL -Trip Blk 40mlAmb-HCl-Blk	V8260LL 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1A	G	GW		12-14	0940	7	X	X		X		-26
MW-2AR	G	GW		12-14	1014	7	X	X		X		-27
MW-6AR	G	GW		12-14	1107	7	X	X		X		-28
MW-7A	G	GW		12-14	0904	7	X	X		X		-29
MW-8R	G	GW		12-14	0821	7	X	X		X		-30
TRIP BLANK	G	GW		12-14	—	2			X			-31
		GW				7	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

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5528 5947 9032

Chain of Custody Page ___ of ___

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # U140207

Ta F131

Acctnum: WMVISFL

Template: T200970

Prelogin: P894121

PM: 616 - Stacy Kennedy

PB:

Shipped Via: FedEX Priority

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)
	12-14-21	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR 2

Temp: NSA2 °C 5.3+0=5.3 Bottles Received: 35

Date: 12/15/21 Time: 14:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

WMVISFL 12/15 Add to SDG

Special Instructions

Add T200970 NITRATE for WMVISFL incoming 12/15 to L1440207.

Will also receive bottles for SV8011 and V8260LL - do not log. Place these on hold per client request.

Time estimate: oh **Time spent:** oh **Grouping date:** 15 December :

Members

SK Stacy Kennedy

Comments

Cole Medley *15 December 2021 3:31 PM*

Added to L#.

Stacy Kennedy *15 December 2021 3:40 PM*

Thank you. Please attach this card to the CoC for record.

Cole Medley *15 December 2021 3:41 PM*

Done.

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-03A	SAMPLE ID:		DATE: 12-8-21

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): 39.31		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 92.87			GROUNDWATER ELEVATION (ft NGVD): 53.56		

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: 1137	PURGING ENDED AT: 1157		TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1147	1.50	1.50	0.15	39.62	5.42	25.7	74	1.3	2.4	177		
1150	0.45	1.95	0.15	39.63	5.40	25.7	74	1.3	2.5	175		
1153	0.45	2.40	0.15	39.63	5.44	25.7	75	1.2	2.2	177		
1156	0.45	2.85	0.15	39.63	5.42	25.7	75	1.2	2.6	180	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: ACC DAN ARMOUR / ~~PRO-TECH~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1157		SAMPLING ENDED AT: NR
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	0.15	BP
	3	G	40ml	NaThio	-		EDB/DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:
Sheen Present YES (NO)

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

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

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-03B	SAMPLE ID:		DATE: 12.8.21

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): 39.47		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 93.06			GROUNDWATER ELEVATION (ft NGVD): 53.59		

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: 1109	PURGING ENDED AT: 1129		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
1119	2.90	2.90	0.29	40.32	7.17	25.3	213	1.0	1.4	-63		
1122	0.87	3.77	0.29	40.32	7.15	25.3	215	1.0	1.9	-64		
1125	0.87	4.64	0.29	40.32	7.19	25.3	216	1.0	1.6	-68		
1128	0.87	5.51	0.29	40.32	7.20	25.3	217	1.1	2.0	-70	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: FAC DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1129		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 82.80	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 mL	HNO3	-	-	METALS	0.29	BP
	1	PE	250 mL	H2SO4	-	-	NH3	1	1
	1	PE	125 mL	-	-	-	Cl-	1	1

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: MW-04A	SAMPLE ID:		DATE: 12-8-21

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): 28.80	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 82.04 GROUNDWATER ELEVATION (ft NGVD): 53.24

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

= (46.35 feet − 28.80 feet) X 0.163 gallons/foot = 2.86 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: 1246	PURGING ENDED AT: 1309		TOTAL VOLUME PURGED (gallons): 5.29

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
1259	2.99	2.99	0.23	29.03	6.05	26.5	52	4.6	1.8	199		
1302	0.69	3.68	0.23	29.04	6.03	26.5	52	4.5	2.1	201		
1305	0.69	4.37	0.23	29.04	6.04	26.5	53	4.5	1.5	201		
1308	0.69	5.06	0.23	29.04	6.05	26.5	54	4.5	1.8	200	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./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: ACC DAN ARMOUR / [illegible]	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1309		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 41.65	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION						
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	0.23	BP
	3	G	40ml	Na2S2O3	−		EDB/DBCP		
	1	P	1000 ml	−	−		G-CHEM		
	1	P	500ml	HNO3	−		METALS		
	1	AG	500 ml	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-04B	SAMPLE ID:		DATE: 12-8-21

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):	28.95		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	83.18					GROUNDWATER ELEVATION (ft NGVD):	54.23			

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:	1218	PURGING ENDED AT:	1238		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
1228	2.70	2.70	0.27	30.46	5.44	26.1	35	0.7	2.5	206		
1231	0.81	3.51	0.27	30.46	5.45	26.2	35	0.7	2.7	206		
1234	0.81	4.32	0.27	30.46	5.48	26.2	35	0.7	2.3	208		
1237	0.81	5.13	0.27	30.46	5.44	26.2	35	0.7	2.6	209	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:	FVC – DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1238		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	68.00	TUBING MATERIAL CODE:	T			FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	250 ml	HNO_3	–	–	METALS	0.37	BP
	1	PE	250 ml	H_2SO_4	–	–	NH_3	1	1
	1	PE	125 ml	–	–	–	Cl	1	1

REMARKS:
SHEEN: No

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-05A	SAMPLE ID:		DATE: 12-8-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 28.08 feet to 43.08 feet	STATIC DEPTH TO WATER (feet): 27.13		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 81.86			GROUNDWATER ELEVATION (ft NGVD): 54.73		

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

= (43.08 feet - 27.13 feet) X 0.163 gallons/foot = 2.60 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: 1350	PURGING ENDED AT: 1413		TOTAL VOLUME PURGED (gallons): 4.83

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1403	2.73	2.73	0.21	29.93	5.83	27.2	81	3.5	2.0	140		
1406	0.63	3.36	0.21	29.73	5.79	27.1	77	3.4	2.7	142		
1409	0.63	3.99	0.21	29.74	5.76	27.0	76	3.4	2.4	145		
1413	0.63	4.62	0.21	29.74	5.75	27.0	75	3.4	2.2	147	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: ACC DAN ARMOUR / ~~FAD-TECH~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1413		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:	12-8-21

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):	28.03		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	81.27					GROUNDWATER ELEVATION (ft NGVD):	53.24			

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 69.35 feet) + 0.05 gallons = 0.78 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	64.35	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	64.35	PURGING INITIATED AT:	1321	PURGING ENDED AT:	1341		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
1331	2.70	2.70	0.27	28.98	7.83	25.9	210	0.1	4.5	18		
1334	0.81	3.51	0.27	28.98	7.81	25.9	211	0.1	4.4	19		
1337	0.81	4.32	0.27	28.98	7.85	25.9	212	0.1	4.4	22		
1340	0.81	5.13	0.27	28.98	7.86	25.9	212	0.1	4.9	24	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:	A.C. DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1341		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	250 ml	HNO_3	–	–	METALS	0.27	BP
	1	~~AG~~ PE	250 ml	H_2SO_4	–	–	NH3	0.27	BP
	~~3~~	CG	40 ml	NaHSO					
	~~1~~	PE	250 ml	–	–	–			
	~~3~~	AG	40 ml	HCl					
	1	AE	125 ml	–	–	–	CL	0.27	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-9A	SAMPLE ID:		DATE: 8-12-21

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):	45.15		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 - 45.15 feet) X 0.163 gallons/foot = 2.92 gallons

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

= 0.2 gallons + (0.002 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:	0931	PURGING ENDED AT:	0954		TOTAL VOLUME PURGED (gallons):	5.29

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
0944	2.99	2.99	0.23	45.81	7.01	24.3	91	1.8	4.9	90		
0947	0.69	3.68	0.23	45.81	7.02	24.3	91	1.8	5.2	89		
0950	0.69	4.37	0.23	45.81	7.02	24.3	91	1.8	5.0	89		
0953	0.69	5.06	0.23	45.82	7.01	24.4	92	1.8	5.4	91	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:	ACC DAN ARMOUR / ~~PRO-TECH~~	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0954		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 (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	-	NM	VOA	0.23	BP
	3	G	40 ml	NaThio	-	|	8011	|	|
	1	P	1000 ml	-	-	|	G-CHEM	|	|
	1	P	500 ml	HNO3	-	|	METALS	|	|
	1	AG	500 ml	H2SO4	-	|	NH3	|	|
	1	P	1000 ml	HNO3	-	|	GROSS ALPHA	|	|

REMARKS:
SHEEN: NO

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

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

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-9B	SAMPLE ID:		DATE: 12-8-21

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): 45.37		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 = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 84.30	PURGING INITIATED AT: 0904	PURGING ENDED AT: 0924		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
0914	1.80	1.80	0.18	45.52	7.67	23.9	351	0.2	3.0	103		
0917	0.54	2.34	0.18	45.52	7.66	23.8	352	0.2	2.9	102		
0920	0.54	2.88	0.18	45.52	7.69	23.8	352	0.1	2.8	101		
0923	0.54	3.42	0.18	45.52	7.69	23.8	353	0.1	2.7	102	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: ACC DAN ARMOUR / [illegible]	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0924		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 84.30	TUBING MATERIAL CODE: T		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE gal (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40 ml	HCl	–	N.M	VOA	0.18	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: 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-11A	SAMPLE ID:		DATE:	12-8-21

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 57.5 feet	STATIC DEPTH TO WATER (feet):	41.69		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	NA				GROUNDWATER ELEVATION (ft NGVD):	NA			

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

= (57.50 feet – 41.69 feet) X 0.163 gallons/foot = 2.58 gallons

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

= 0.2 gallons + (0.0026 gallons/foot X 57.50 feet) + 0.05 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	49.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	47.50	PURGING INITIATED AT:	0829	PURGING ENDED AT:	0851		TOTAL VOLUME PURGED (gallons):	4.84

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
0841	2.64	2.64	0.22	42.28	7.62	24.0	380	2.4	4.5	110		
0844	0.66	3.30	0.22	42.28	7.63	24.1	381	2.4	4.2	110		
0847	0.66	3.96	0.22	42.28	7.63	24.1	381	2.3	4.0	112		
0850	0.66	4.62	0.22	42.28	7.65	24.1	381	2.3	4.3	113	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:	ACC DAN ARMOUR / PROTECH	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0851		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	40 ml	HCl	–	NM	VOA	0.22	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-11B	SAMPLE ID:		DATE: 12-8-21

PURGING DATA

41.33

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): 41.33		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)
= (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: 0807	PURGING ENDED AT: 0822		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
0812	1.70	1.70	0.17	48.97	7.64	23.9	276	0.2	2.4	-95		
0815	0.51	2.21	0.17	48.97	7.69	23.9	274	0.2	2.3	-95		
0818	0.51	2.72	0.17	48.97	7.70	23.9	273	0.2	2.3	-98		
0821	0.51	3.23	0.17	48.97	7.72	23.9	271	0.2	2.5	-99	NOJE	

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: ACC DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0822		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 (~~mL~~ gal 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	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-14A	SAMPLE ID:		DATE: 12-8-21

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):	40.72		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 – 40.72 feet) X 0.163 gallons/foot = 2.84 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):	98.15	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	48.15	PURGING INITIATED AT:	1005	PURGING ENDED AT:	1028		TOTAL VOLUME PURGED (gallons):	5.29

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
1018	2.99	2.99	0.23	46.90	5.76	24.6	55	1.9	3.0	153		
1021	0.69	3.68	0.23	46.90	5.78	24.7	54	1.8	4.1	154		
1024	0.69	4.37	0.23	46.90	5.78	24.7	54	1.8	4.4	158		
1027	0.69	5.06	0.23	46.91	5.78	24.7	54	1.8	4.7	155	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:	ACC DAN ARMOUR / ~~PRO-TECH~~	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1028		SAMPLING ENDED AT:	NR
PUMP OR TUBING DEPTH IN WELL (feet):	48.15	TUBING MATERIAL CODE:	T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:			FILTER SIZE:	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)				DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	G	40ml	HCl	–	NM	VOA	0.23	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: 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-14B	SAMPLE ID:		DATE: 12-8-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 90.6 feet to 100.6 feet	STATIC DEPTH TO WATER (feet): 46.12		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 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: 1038	PURGING ENDED AT: 1058		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
1048	1.80	1.80	0.18	46.21	7.56	24.8	184	0.2	3.9	107		
1051	0.54	2.34	0.18	46.21	7.58	24.8	185	0.2	3.4	106		
1054	0.54	2.88	0.18	46.21	7.58	24.8	184	0.2	4.1	106		
1057	0.54	3.42	0.18	46.21	7.60	24.8	184	0.2	4.2	106	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: ALC DAN ARMOUR / [illegible]	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1058		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 95.60	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (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	0.18	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: (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-15A	SAMPLE ID:		DATE:	12-8-21

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):	42.87		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 – 42.87 feet) X 0.163 gallons/foot = 4.31 gallons

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

= 0.2 gallons + (0.0026 gallons/foot X 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:	0723	PURGING ENDED AT:	0749		TOTAL VOLUME PURGED (gallons):	9.62

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
0739	4.32	4.32	0.29	43.96	5.26	24.7	63	3.3	1.5	256		
0743	0.81	5.13	0.27	43.97	5.27	24.8	63	3.3	1.8	256		
0745	0.81	5.94	0.27	43.97	5.27	24.8	62	3.2	1.8	259		
0748	0.81	6.75	0.27	43.97	5.26	24.8	62	3.2	1.5	259	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:	ACC DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0749		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			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	0.27	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-15B	SAMPLE ID:		DATE:	12-8-21

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):	50.47	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:	0655	PURGING ENDED AT:	0715		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
0705	1.80	1.80	0.18	54.63	6.58	24.5	154	2.2	8.3	218		
0708	0.54	2.34	0.18	54.62	6.59	24.5	156	2.2	7.6	214		
0711	0.54	2.88	0.18	54.63	6.57	24.5	159	2.1	7.8	214		
0714	0.54	3.42	0.18	54.63	6.58	24.5	161	2.1	7.5	218	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:	ACA DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0715		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 (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	0.18	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:	EQUIPMENT BLANK	SAMPLE ID:			DATE: 12-8-21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: – feet to – feet	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
NA	NA		NA		NA

WELL ELEVATION TOC (ft NGVD):	GROUNDWATER ELEVATION (ft NGVD):
NA	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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
NA	NA	NA	NA		NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1430	NA	NA	NA	NA	6.78	25.3	8	1.0	0.0	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:		SAMPLING ENDED AT:
DAN ARMOUR / ~~PACE LAB~~		1430		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
NA	NA			

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	1 L	–	–	NM	6-COMP	NA	NA
	1	P	500 ml	HNO_3	–	NM	METALS		
	1	P	500 ml	H_2SO_4	–	NM	NH3		

REMARKS:
SHEEN: No EB - COMPLETED USING D.I. H_2O PROVIDED BY ~~TEST AMERICA~~ 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; RPPP = 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: 12-9-25

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 54.71 feet to 69.71 feet	STATIC DEPTH TO WATER (feet): 43.02		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.47			GROUNDWATER ELEVATION (ft NGVD): 66.45		

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: 0901	PURGING ENDED AT: 0921		TOTAL VOLUME PURGED (gallons): 5.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0911	2.60	2.60	0.26	47.01	7.36	24.3	440	0.4	2.7	49		
0914	0.78	3.38	0.26	47.01	7.38	24.3	439	0.4	2.3	48		
0917	0.78	4.16	0.26	47.01	7.37	24.3	439	0.4	2.1	48		
0920	0.78	4.94	0.26	47.01	7.39	24.3	438	0.4	2.6	47	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: ACC DAN ARMOUR / ~~FRONTIER~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0921	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			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	0.26	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-01B	SAMPLE ID:		DATE: 12-9-21

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: 87.78 feet to 92.78 feet	STATIC DEPTH TO WATER (feet):	53.12		PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):		109.53			GROUNDWATER ELEVATION (ft NGVD):		56.41		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (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 + (0.005 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:	0831	PURGING ENDED AT:	0851		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
0841	3.20	3.20	0.32	55.10	7.56	24.1	187	0.3	2.7	41		
0844	0.96	4.16	0.32	55.10	7.55	24.1	187	0.3	2.2	40		
0847	0.96	5.12	0.32	55.11	7.58	24.1	187	0.3	2.5	38		
0850	0.96	6.08	0.32	55.11	7.55	24.1	188	0.2	2.1	40	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:	FVC – DAN ARMOUR / [illegible]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0851		SAMPLING ENDED AT:	NR
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			
	1	250mL	PE	HNO3	–	–	METALS	0.32	BP
	1	250mL	PE	H2SO4	–	–	NH3	1	1
	1	125mL	PE	–	–	–	Cl		

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: MW-02AR	SAMPLE ID:		DATE: 12-9-21

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): 32.67		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 87.22			GROUNDWATER ELEVATION (ft NGVD): 54.55		

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

= (41.06 feet - 32.67 feet) X 0.163 gallons/foot = 1.37 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: 1003	PURGING ENDED AT: 1023		TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1013	1.50	1.50	0.15	⊗NA	5.73	26.0	42	5.2	2.8	112		
1016	0.45	1.95	0.15	|	5.71	26.0	40	5.3	2.3	114		
1019	0.45	2.40	0.15	|	5.72	26.0	40	5.2	2.6	117		
1022	0.45	2.85	0.15	|	5.73	26.0	40	5.2	2.7	118	NONE	
	⊗NA - WATER LEVEL IS BELOW THE TOP OF THE DEDICATED PUMP											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./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~~ ACE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1023		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 gal (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.15	BP
	3	G	40ml	NaThio	-		EDB | DBCP		
	1	P	1000ml	-	-		G-CHEM		
	1	P	500ml	HNO3	-		METALS		
	1	AG	500ml	H2SO4	-		NH3		
	1	P	1000ml	HNO3	-		GROSS ALPHA		

REMARKS:

Sheen Present YES (NO)

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

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

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

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

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	VISTA		SITE LOCATION:	APOPKA, FL	
WELL NO:	MW-02B	SAMPLE ID:		DATE:	12-9-21

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH:	67.05 feet to 77.05 feet	STATIC DEPTH TO WATER (feet):	35.19	PURGE PUMP TYPE OR BAILER:	BP
WELL ELEVATION TOC (ft NGVD):	88.96					GROUNDWATER ELEVATION (ft NGVD):	53.77		

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 + (0.026 gallons/foot X 77.05 feet) + 0.05 gallons = 0.8 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	72.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	72.05	PURGING INITIATED AT:	0934	PURGING ENDED AT:	0954	TOTAL VOLUME PURGED (gallons):	5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0944	2.80	2.80	0.28	36.83	7.89	26.7	175	0.3	4.7	98		
0947	0.84	3.64	0.28	36.83	7.85	26.7	175	0.3	4.8	97		
0950	0.84	4.48	0.28	36.84	7.87	26.7	175	0.3	5.2	95		
0953	0.84	5.32	0.28	36.84	7.90	26.7	174	0.3	5.3	94	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:	FVC DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0954	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	|	|
	1	PE	125 ml	-	-	-	Cl	|	|

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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-06AR	SAMPLE ID:		DATE: 12-9-21

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): 50.16		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 104.11			GROUNDWATER ELEVATION (ft NGVD): 53.95		

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

= (72.35 feet - 50.16 feet) X 0.163 gallons/foot = 3.62 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: 1111	PURGING ENDED AT: 1138		TOTAL VOLUME PURGED (gallons): 5.94

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
1128	3.74	3.74	0.22	52.44	5.47	25.6	357	2.5	2.0	155		
1131	0.66	4.40	0.22	52.44	5.46	25.6	358	2.4	1.7	158		
1134	0.66	5.06	0.22	52.45	5.50	25.6	358	2.4	1.8	160		
1137	0.66	5.72	0.22	52.45	5.51	25.6	357	2.4	2.2	162	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: ACC DAN ARMOUR / ~~PROTECH~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1138	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 67.35	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
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: 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-06BR	SAMPLE ID:		DATE: 12-9-21

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):	50.06	PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 103.99 GROUNDWATER ELEVATION (ft NGVD): 53.94

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 = 0.9 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	87.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	87.48	PURGING INITIATED AT:	1039	PURGING ENDED AT:	1059		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
1049	3.10	3.10	0.31	50.82	7.85	25.1	332	1.0	1.5	132		
1052	0.93	4.03	0.31	50.82	7.82	25.1	333	1.0	1.5	130		
1055	0.93	4.96	0.31	50.82	7.87	25.1	334	1.0	1.8	130		
1058	0.93	5.89	0.31	50.82	7.88	25.1	335	1.0	2.3	127	None	

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	FXC DAN ARMOUR / [redacted]	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1059		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		
	1	PE	125 mL	–	–		Cl		

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:	12.9.21

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH 51.23 feet to 71.03 feet	STATIC DEPTH TO WATER (feet):	41.05		PURGE PUMP TYPE OR BAILER:	BP

WELL ELEVATION TOC (ft NGVD): 109.26 GROUNDWATER ELEVATION (ft NGVD): 68.21

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

= (71.03 feet - 41.05 feet) X 0.163 gallons/foot = 4.89 gallons

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

= 0.2 gallons + (0.0026 gallons/foot X 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:	0756	PURGING ENDED AT:	0825		TOTAL VOLUME PURGED (gallons):	7.54

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
0815	4.94	4.94	0.26	42.65	7.37	24.3	347	1.1	2.8	37		
0818	0.78	5.72	0.26	42.65	7.38	24.3	346	1.0	2.4	37		
0821	0.78	6.50	0.26	42.65	7.35	24.3	345	1.0	2.5	39		
0824	0.78	7.28	0.26	42.65	7.39	24.3	344	1.0	2.5	38	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:	ACC DAN ARMOUR / ~~PROTECH~~	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0825		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 (mL per minute)	SAMPLING EQUIPMENT CODE
	3	G	40ml	HCl	-	NM	VOA	0.26	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-07B	SAMPLE ID:		DATE: 12-9-21

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): 54.06		PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 109.13			GROUNDWATER ELEVATION (ft NGVD): 55.07		

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: 0725	PURGING ENDED AT: 0745		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
0735	1.80	1.80	0.18	54.55	7.52	23.9	200	0.2	3.3	84		
0738	0.54	2.34	0.18	54.55	7.49	23.8	200	0.2	3.2	82		
0741	0.54	2.88	0.18	54.55	7.48	23.9	201	0.2	3.3	83		
0744	0.54	3.42	0.18	54.55	7.48	23.9	200	0.2	3.6	82	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: FACC DAN ARMOUR / ~~PROTECH~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0745		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	–	–	–	Cl		

REMARKS:
SHEEN: No

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

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

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

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA		SITE LOCATION: APOPKA, FL	
WELL NO: MW-8R	SAMPLE ID:		DATE: 12-9-21

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): 43.90	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 99.60			GROUNDWATER ELEVATION (ft NGVD): 55.70	

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 gallons + (0.0026 gallons/foot X 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: 0651	PURGING ENDED AT: 0711		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 & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0701	1.70	1.70	0.17	44.47	6.91	23.3	254	1.6	5.1	75		
0704	0.51	2.21	0.17	44.48	6.90	23.4	257	1.5	4.6	78		
0707	0.51	2.72	0.17	44.48	6.90	23.4	258	1.5	4.8	78		
0710	0.51	3.23	0.17	44.48	6.91	23.4	259	1.5	4.8	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: ACC DAN ARMOUR / ~~FAC TECH~~	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0711	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 (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)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-01A | SAMPLE ID: | DATE: 12-14-21

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: 59.71 feet to 69.71 feet | STATIC DEPTH TO WATER (feet): 43.27 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.47 | GROUNDWATER ELEVATION (ft NGVD): 66.20

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: 0926 | PURGING ENDED AT: 0940 | TOTAL VOLUME PURGED (gallons): 5.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0930	2.60	2.60	0.26	47.28	7.37	24.5	448	0.5	2.2	40		
0933	0.78	3.38	0.26	47.28	7.36	24.5	448	0.4	2.1	39		
0936	0.78	4.16	0.26	47.28	7.37	24.5	448	0.4	2.0	38		
0939	0.78	4.94	0.26	47.28	7.36	24.5	447	0.4	2.4	37	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 / ACC | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0940 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 64.71 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	125 ml	~	~	~	NITRATE	0.26	BP
	3	AG	40 ml	HCl	~	~	VOA	1	1
	3	CG	40 ml	NaHSO4	~	~	8011		

REMARKS:

Sheen Present YES (NO)

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

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

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

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

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

Revision Date: February 12, 2009

FORM FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA, FL

WELL NO: MW-02AR | SAMPLE ID: | DATE: 12-14-21

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH 31.06 feet to 41.06 feet | STATIC DEPTH TO WATER (feet): 32.83 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 87.22 | GROUNDWATER ELEVATION (ft NGVD): 54.39

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

= (41.06 feet - 32.83 feet) X 0.163 gallons/foot = 1.34 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: 0954 | PURGING ENDED AT: 1014 | TOTAL VOLUME PURGED (gallons): 3.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1004	1.50	1.50	0.15	⊗ NA	5.76	26.2	39	4.9	2.0	120		
1007	0.45	1.95	0.15	|	5.73	26.2	39	5.0	2.5	123		
1010	0.45	2.40	0.15	|	5.71	26.2	39	5.0	2.1	124		
1013	0.45	2.85	0.15		5.70	26.1	39	5.0	2.4	126	NONE	

⊗ NA - WATER LEVEL IS BELOW THE TOP OF THE DEDICATED PUMP

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./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 / AGC | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1014 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 36.06 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE 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
	1	PE	125 ml	-	-	-	NITRATE	0.15	BP
	3	AG	40 ml	HCl	-	-	VOA	|	|
	3	CG	40 ml	Na2S2O3	-	-	8011	|	|

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-06AR | SAMPLE ID: | DATE: 12-14-21

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTHS: 52.35 feet to 72.35 feet | STATIC DEPTH TO WATER (feet): 50.27 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 104.11 | GROUNDWATER ELEVATION (ft NGVD): 53.84

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

= (72.35 feet - 50.27 feet) X 0.163 gallons/foot = 3.60 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 + (0.002 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: 1040 | PURGING ENDED AT: 1107 | TOTAL VOLUME PURGED (gallons): 5.94

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1057	3.74	3.74	0.22	52.57	5.43	25.3	360	2.4	1.6	158		
1100	0.66	4.40	0.22	52.58	5.43	25.2	360	2.4	1.9	159		
1103	0.66	5.06	0.22	52.58	5.45	25.2	360	2.4	2.2	159		
1106	0.66	5.72	0.22	52.58	5.44	25.2	360	2.3	2.4	160	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 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: DAWN ARMOUR / ACC | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1107 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 67.35 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) | FILTER SIZE: µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (ml per minute)	SAMPLING EQUIPMENT CODE
SAMPLE CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	125 ml	-	-	-	NITRATE	0.22	BP
	3	AG	40 ml	HCl	-	-	VOA	1	1
	3	CG	40 ml	Na2S2O3	-	-	8011		

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)

GROUNDWATER SAMPLING LOG

SITE NAME: VISTA | SITE LOCATION: APOPKA FL

WELL NO: MW-07A | SAMPLE ID: | DATE: 12-14-21

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): 41.48 | PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 109.26 | GROUNDWATER ELEVATION (ft NGVD): 67.78

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

= (71.03 feet - 41.48 feet) X 0.163 gallons/foot = 4.81 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 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: 0835 | PURGING ENDED AT: 0904 | TOTAL VOLUME PURGED (gallons): 7.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm & µS/cm	DISSOLVED OXYGEN (circle units) mg/L & % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0854	4.94	4.94	0.26	43.10	7.45	24.8	345	1.0	3.8	31		
0857	0.78	5.72	0.26	43.10	7.43	24.8	346	1.0	3.5	31		
0900	0.78	6.50	0.26	43.11	7.45	24.8	346	1.0	2.3	29		
0903	0.78	7.28	0.26	43.11	7.46	24.8	346	1.0	2.4	29	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 / AMC | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0904 | SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 66.03 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm | FILTER SIZE: | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) | TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE 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
	1	PE	125 mL	-	-	-	NITRATE	0.26	BP
	3	AG	40 mL	HCl	-	-	VOA	1	1
	3	CG	40 mL	$Na_2S_2O_3$	-	-	8011		

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-8R	SAMPLE ID:		DATE: 12-14-21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:
2	1/4	61 feet to 71 feet	44.12		BP

WELL ELEVATION TOC (ft NGVD): 99.60 GROUNDWATER ELEVATION (ft NGVD): 55.48

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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):
66.00	66.00	0801	0821		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
0811	1.70	1.70	0.17	44.71	6.90	24.3	261	1.5	3.9	71		
0814	0.51	2.21	0.17	44.71	6.87	24.3	260	1.5	3.8	69		
0817	0.51	2.72	0.17	44.71	6.87	24.3	260	1.5	4.2	68		
0820	0.51	3.23	0.17	44.71	6.86	24.3	258	1.5	4.3	67	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:		SAMPLING ENDED AT:
DANNY ARMOUR / ACC		0821		NR

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N) FILTER SIZE: µm Filtration Equipment Type:
66.00	T		

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
	1	PE	125 ml	–	–	–	NITRATE	0.17	BP
	3	AG	40 ml	HCl	–	–	VOC		
	3	CG	40 ml	NaThio	–	–	BOIL		

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

Atlantic Coast Consulting, Inc.
1150 Northmeadow Parkway, Ste 100
Roswell, Georgia 30076
(770) 715-8090

DEPTH TO WATER MEASUREMENTS

FACILITY: VISTA

DATE: 12-8-21

MW-01A	43.02
MW-01B	53.12
MW-02AR	32.67
MW-02B	35.19
MW-03A	39.31
MW-03B	39.47
MW-04A	28.80
MW-04B	28.95
MW-05A	27.13
MW-05B	28.03
MW-06AR	50.16
MW-06BR	50.06
MW-07A	41.05
MW-07B	54.06
MW-08R	43.90
MW-FL01	39.63
MW-FL02R	31.40
MW-FL03	44.28
MW-09A	45.15

MW-09B	45.37
MW-11A	41.69
MW-11B	41.33
MW-14A	40.72
MW-14B	46.12
MW-15A	42.07
MW-15B	50.47

Atlantic Coast Consulting, Inc.
1150 Northmeadow Parkway, Ste 100
Roswell, Georgia 30076
(770) 715-8090

DEPTH TO WATER MEASUREMENTS

FACILITY: VISTA

DATE: 12-9-21

BPZ-2	NA-MUD @ BOTTOM
BPZ-3	31.03
BPZ-4	29.66
BPZ-5	28.23
BPZ-6	36.32
BPZ-7	31.62
BPZ-8	39.76
BPZ-9	42.54
BPZ-10	35.47
BPZ-11	33.62
BPZ-12	31.13

WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DANNY ARMOUR

Date: 12-8-21 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.

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WELL CONDITION INSPECTION FORM

WASTE MANAGEMENT

Site: VISTA Personnel: DANNY ARMOUR

Date: 12-8-21 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	

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WASTE MANAGEMENT

WELL CONDITION INSPECTION FORM

Site: VISTA　　Personnel: DANNY ARMOUR

Date: 12-8-21　　

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	NONDED BLADDER 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	

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ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: VISTA

TECHNICIAN: DANNY ARMOUR

WATER LEVEL: SOLINST

WATER LEVEL S/N: 377053

INSTRUMENT S/N: JYDPKR25

INSTRUMENT TYPE: HORIBA

CAL. SOLUTION/S:

ID: AUTO	LOT #: 20490203	EXP. DATE:	FEB 2022
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	

Calibration Date: 12-8-21

RDO: 100% sat. = 100.0

PH: 4.00 = AUTO 7.00 = AUTO 10.00 = AUTO

CONDUCTIVITY: 4.49 (std) = 4.50

ORP (mV) AUTO

Calibration Date: 12-9-21

RDO: 100% sat. = 100.0

PH: 4.00 = AUTO 7.00 = AUTO 10.00 = AUTO

CONDUCTIVITY: 4.49 (std) = 4.49

ORP (mV) AUTO

Calibration Date: 12-14-21

RDO: 100% sat. = 100.0

PH: 4.00 = AUTO 7.00 = AUTO 10.00 = AUTO

CONDUCTIVITY: 4.49 (std) = 4.47

ORP (mV) AUTO

(X) RE-SAMPLE

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY:

ORP (mV)

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY:

ORP (mV)

APPENDIX B

COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE