

Gainesville Regional Utilities Deerhaven Generating Station



Coal Combustion Residuals Units

2024 Annual Groundwater Monitoring and Corrective Action Report

Prepared for:

Gainesville Regional Utilities
Gainesville, Florida

Prepared by:

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List of Abbreviations

AMP	Assessment Monitoring Program
ASD	Alternative Sources Demonstration
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
ECT	Environmental Compliance Technologies
GWMP	Groundwater Monitoring Plan
GWPS	Groundwater Protection Standard
GRU	Gainesville Regional Utilities
ITS	Innovative Technical Solutions
IWCS	Innovative Waste Consulting Services
LCL	Lower Confidence Limit
PQL	Practical Quantitation Limit
SIS	Surface Impoundment System
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
UES	Universal Engineering Sciences
USGS	United States Geological Survey
US EPA	United States Environmental Protection Agency

1.0 Current Status Overview

In accordance with 40 CFR 257.90(e)(6)(i) – (vi), the following is a summary of the current status of the units:

- At the beginning of 2024, both the surface impoundment system (SIS) and the landfill were under assessment monitoring.
- The SIS was closed by the removal of CCR. The CCR removal was completed on April 2, 2024. The landfill unit remains in assessment monitoring.
- The following statistically significant increases (SSI) over background were noted for Appendix III parameters in 2024:
 - For the SIS (for the January event only): calcium, chloride, sulfate, and total dissolved solids (TDS) in SIS-2.
 - For the landfill: boron (LF-3 and LF-5), chloride (LF-2 and LF-5), pH (LF-2 and LF-4), sulfate (LF-3, LF-4, and LF-5), TDS (LF-3 and LF-5), and fluoride (LF-2).
- GRU received a Notice of Final Agency Action from the Florida Department of Environmental Protection on April 7, 2023 (Permit Number 0266484-001-CP-01) for the SIS closure by removal of in-place Coal Combustion Residuals (CCR) and decontamination of the two ash cells. Placement of CCR and non-CCR wastestreams in Ash Pond #1 was ceased on October 1, 2021 per 40 CFR 257.101(a) and closure by removal was initiated on November 2, 2021. Placement of CCR and non-CCR wastestreams in Ash Pond #2 was ceased and removal was initiated on October 1, 2023. Removal of CCR in Ash Cell #1 was completed on May 9, 2023, and removal of CCR from Ash Cell #2 was completed on April 2, 2024 (this reporting year).
- The site has a history of localized naturally occurring radiological activity. Per the 2022 annual groundwater monitoring report, LF-5 showed radium 226 and 228 at a statistically significant level (SSL) above the GWPS. This area was evaluated and further sampled as part of an alternative source demonstration (ASD) completed in March 2022 and included in the 2022 annual groundwater monitoring report (ITS 2023). The results of this ASD confirm the earlier conclusions of the DGS radiological Plan of Study (ECT 2015): there is naturally occurring, highly spatially variable radiological activity at the site.
- No remedial actions were initiated or completed during 2024.

2.0 Site Background

Prior to closure of the surface impoundment system (SIS), as described above, the Deerhaven Generating Station (site) had two CCR units: the SIS and a landfill. The SIS was

comprised of two ash ponds (i.e., Ash Cell #1, Ash Cell #2) located within the same slurry wall containment system. These ponds receive cooling tower blowdown and bottom ash sluice water from the site's natural gas/coal-fired combustion unit (i.e., Unit 2) through a piping network that allows discharge to either pond. The Deerhaven Generating Station has been operated primarily as a natural gas-fired unit that retains the ability to use coal in the event of a natural gas supply interruption. The provisions of 40 CFR 257 Subpart D are not applicable to the wastestreams generated at the facility since July 2021. CCR removal and unit decontamination has been completed for the SIS.

When Unit 2 combusts coal, the CCR landfill primarily accepts flue gas desulfurization byproduct from the Unit 2 scrubbing process. Historically, the landfill has also accepted bottom ash that has periodically (i.e., approximately once every five years) been excavated from the SIS. The landfill also receives lime sludge that is periodically dredged from front-end treatment sludge ponds. Though fly ash has been occasionally deposited in the landfill, it is typically hauled offsite for beneficial use.

The management of CCR is regulated by Title 40 of the Code of Federal Regulations, Part 257, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments. These regulations include specific requirements for groundwater monitoring of CCR units. Specific details on the required content of this annual groundwater monitoring and corrective action report are enumerated in §257.90(e). As of January 10, 2018, both CCR units entered into an Assessment Monitoring Program (AMP) due to the detection of Appendix III parameters at an SSI above background. These Appendix III parameters are monitored as indicators of potential groundwater impacts but (with the exception of fluoride) do not have a GWPS.

3.0 Well Installation and Decommissioning

Two networks of groundwater monitoring wells (upgradient downgradient wells) were installed on March 7, 2017 (UES 2017) to monitor the SIS and landfill. One upgradient well (LF-1) and five downgradient wells (LF-2, LF-3, LF-4, LF-5, and LF-6) are used for monitoring groundwater quality around the CCR landfill, and two upgradient wells (SIS-1 and R6T4) and four downgradient wells (R4T5, SIS-2, SIS-3, SIS-4) were used for monitoring groundwater quality around the SIS (UES 2020).

These wells have provided an independent groundwater monitoring well network for each CCR unit. The three downgradient wells for the CCR landfill (LF-2, LF-3, and LF-4) were removed and reinstalled in 2019 as part of a perimeter stormwater ditch modification project (UES 2019). Two additional wells (LF-5 and LF-6) and a piezometer (PZ-7) were installed on the west side of the landfill in June 2020 for more accurate characterization of groundwater flow direction and quality on that side of the unit. The

groundwater monitoring network (UES 2020) and the groundwater monitoring plan (GWMP) (ITS 2021) were updated to include these wells.

Table 3-1 below provides a summary of each well including ID, coordinates, and whether the well is classified as upgradient or downgradient from its respective CCR unit. The coordinates are referenced to the North American Datum of 1983, Florida State Plane North 0903.

Table 3-1. CCR Unit-Specific Well Coordinates and Upgradient/Downgradient Designation

CCR SIS			
Well ID	Northing	Easting	Upgradient/Downgradient
SIS-1	285,024	2,637,081	Upgradient
R6T4	285,074	2,636,502	Upgradient
R4T5	284,200	2,637,137	Downgradient
SIS-2	284,334	2,637,307	Downgradient
SIS-3	284,141	2,636,920	Downgradient
SIS-4	284,335	2,636,709	Downgradient
CCR Landfill			
Well ID	Northing	Easting	Upgradient/Downgradient
LF-1	284,852	2,635,464	Upgradient
LF-2	284,008	2,635,888	Downgradient
LF-3	283,992	2,635,457	Downgradient
LF-4	283,987	2,634,914	Downgradient
LF-5	284,315	2,634,787	Downgradient
LF-6	284,619	2,634,789	Downgradient

4.0 Key Actions Completed

The following key actions associated with groundwater monitoring of the CCR units have been completed in 2024 under the AMP established in January 2018:

- Continued sampling of Appendix III and Appendix IV parameters under the AMP. Tables summarizing sample collection dates are presented below in a set of tables. Historical groundwater monitoring data are incorporated into the dataset for wells R6T4 and R4T5.
- Statistical analysis of the downgradient measurements of Appendix III, and IV parameters for each CCR unit for the AMP sampling events. A summary of these analyses are presented in the next section (5.0 Summary of Statistical Analysis Results).
- Closure is completed for the SIS. GRU has completed CCRs removal and decontamination efforts for Ash Cell #1 and #2. No SSLs have ever been recorded at the SIS for Appendix IV parameters. Closure by removal was completed per the

requirements of §257.102(c). As described and anticipated in the 2023 Annual Groundwater Monitoring and Corrective Action Report, groundwater monitoring was discontinued for SIS wells following the January 2024 sampling event. Table 4-2 shows the CCR Landfill wells sampling in 2024 conducted after the closure of the SIS.

Table 4-1. CCR Unit-Specific Well Sampling Dates and Total Samples Collected through January 2024.

Date	SIS						Landfill					
	SIS-1	R6T4	R4T5	SIS-2	SIS-3	SIS-4	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
10/5/2015		X	X									
1/25/2016		X	X									
4/8/2016		X	X									
7/28/2016		X	X									
10/20/2016		X	X									
1/9/2017		X	X									
4/5/2017		X	X									
4/17/2017	X			X	X	X	X	X	X	X		
5/15/2017	X			X	X	X	X	X	X	X		
5/30/2017	X			X	X	X	X	X	X	X		
6/19/2017	X			X	X	X	X	X	X	X		
7/9/2017	X		X	X	X	X	X	X	X	X		
7/10/2017		X										
7/31/2017	X			X	X	X	X	X	X	X		
8/22/2017	X			X	X	X	X	X	X	X		
9/18/2017	X			X	X	X	X	X	X	X		
1/23/2018	X		X	X	X	X	X	X	X	X		
1/24/2018		X										
2/15/2018	X		X	X	X	X	X	X	X	X		
2/16/2018		X										
3/8/2018	X		X	X	X	X	X	X	X	X		
4/3/2018	X		X	X	X	X	X	X	X	X		
4/4/2018		X										
7/17/2018	X		X	X	X	X	X	X	X	X		
7/18/2018		X										
1/16/2019	X		X	X	X	X	X	X	X	X		
1/17/2019		X										
5/9/2019							X	X	X	X		
5/10/2019		X	X				X					
7/16/2019	X		X	X	X	X	X	X	X	X		
7/17/2019		X										
10/25/2019								X	X	X		
1/14/2020	X	X										
1/15/2020			X				X	X	X			
1/16/2020				X	X	X						
1/17/2020										X		
7/21/2020	X	X										
7/22/2020					X	X						

Date	SIS						Landfill					
	SIS-1	R6T4	R4T5	SIS-2	SIS-3	SIS-4	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
7/23/2020			X	X			X	X	X	X		
9/3/2020												X
10/15/2020											X	X
11/18/2020											X	X
12/9/2020											X	X
1/12/2021		X	X									
1/14/2021	X						X	X	X	X	X	X
1/15/2021				X	X	X						
4/12/2021			X									
4/13/2021		X										
4/15/2021											X	X
7/18/2021		X	X									
7/26/2021	X			X	X	X						
7/27/2021							X	X	X	X	X	X
8/19/2021											X	X
9/3/2021											X	
1/24/2022		X	X									
1/26/2022	X			X	X	X	X					
1/27/2022											X	
1/28/2022								X	X	X		X
7/10/2022		X	X									
7/12/2022							X					
7/13/2022	X			X	X	X		X				
7/14/2022									X	X	X	X
1/8/2023		X	X									
1/10/2023	X						X	X	X	X	X	X
1/11/2023				X	X	X						
2/16/2023							X ¹					
7/12/2023		X	X									
7/13/2023	X			X	X		X					
7/14/2023						X		X				
7/17/2023									X	X	X	X
1/8/2024			X									
1/10/2024		X										
1/11/2024	X			X	X	X	X	X				
1/12/2024									X	X		
Total Samples Collected	24	25	26	24	24	24	27	26	26	26	13	13

1. The sample collected from LF-1 for combined radium in the January semiannual sampling event was damaged in shipping. Resampling of LF-1 for combined radium was conducted on February 16, 2023.

Table 4-2. CCR Landfill Well Sampling Dates and Total Samples Collected after Closure of the SIS in 2024.

Date	Landfill					
	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
7/10/2024					X	X
7/11/2024	X	X	X	X		
Total since GWMP Began	28	27	27	27	14	14

5.0 Summary of Statistical Analysis Results

5.1 Appendix III Parameters

Prediction limits were used to evaluate whether Appendix III parameters in downgradient wells sampled for each CCR unit were measured at a SSI above the respective background concentration. The prediction limits for pH, sulfate, TDS, and fluoride were updated this reporting year (i.e., 2024) for the landfill. Table 5-1 and 5-2 summarize this analysis for Appendix III parameters.

Per the existing assessment monitoring program, several Appendix III parameters concentrations exhibited a SSI over the background levels at several SIS and landfill wells, as shown in Tables 5-1 and 5-2. The SIS and landfill will remain in assessment monitoring until all Appendix III and IV parameters concentrations are shown to be below the respective background level for two consecutive sampling events (§257.95(e)), or until completion of closure activities for the SIS, as discussed in Section 5.2 below. Due to SIS closure, only the samples taken before June 2024 were evaluated for this unit for this report.

Table 5-1. CCR SIS Appendix III Parameters with SSIs (January Results Only)

Parameter	Retest Strategy	Prediction Limit (mg/L)	Well with SSI
			SIS-2
Calcium	1-of-2	108	X
Chloride	1-of-2	20.5	X
Sulfate	1-of-2	325	X
TDS	1-of-2	465	X

¹: Standard pH units

Table 5-2. CCR Landfill Appendix III Parameters with SSIs

Parameter	Retest Strategy	Prediction Limit (mg/L)	Wells with an SSI			
			LF-2	LF-3	LF-4	LF-5
Boron	1-of-2	343		X		X
Calcium	1-of-2	103				
Chloride	1-of-2	23.2	X			X
pH	1-of-2	5.21 – 6.61 ¹	X		X	
Sulfate	1-of-2	35.9		X	X	X
TDS	1-of-2	345		X		X
Fluoride	1-of-2	0.12	X			

¹. Standard pH units

5.2 Appendix IV Parameters Sample Data Analysis

Table 5-3 and Table 5-4 summarize the statistical analysis of Appendix IV parameters measured above the detection limit for the SIS and landfill, respectively. The tables also present the GWPS and the GWPS type. For parameters with at least one reading observed above the GWPS, the statistical method (and if applicable, retest frequency) used to evaluate whether there is a SSL above the GWPS (i.e., exceedance) is shown. No method is listed for parameters that were never measured above the GWPS for any sampling event.

Combined radium (226 and 228) at LF-5 has continued to be observed at a SSL above the GWPS as noted in Table 5-4. This is attributed to localized, naturally-occurring radiological activity in the soil, which has been identified in the general region (USGS 1989) and specifically on-site (ECT 2015). This alternative source was further investigated in March of 2022 as an ASD for radium groundwater impacts at LF-5 near the CCR Landfill. This ASD was included in the subsequent annual groundwater monitoring report (ITS 2023). The ASD concluded that the elevated radium levels are due to naturally occurring radium located in the clay layer in the vicinity of LF-5.

Lab reports and field logs for samples collected from all CCR wells in 2024 are included in Attachments A and B. As required by §257.90(e)(3), the laboratory results for all groundwater sampling events analyzed over the time period covered by this report are included as Attachment A. Field logs including pH readings (an Appendix III parameter) and the depth-to-liquid measurements for all CCR well sampling events are included in this report as Attachment B.

There were no SSLs of Appendix IV parameters above the GWPS for the SIS, and no history of SSLs above the GWPS for any SIS wells. Closure by removal and decontamination was completed in early 2024 per the requirement of §257.102(c). Decontamination was demonstrated for the SIS by the results of two monitoring events with no SSLs above the GWPS. These final two monitoring events are the July 2023 sampling event discussed in last year's report and the January 2024 monitoring event discussed in this report. The January 2024 monitoring event showed no SSLs above the GWPS, and groundwater monitoring of the SIS has been terminated coincident with the closure (by removal) of the SIS as of May 2024.

Table 5-3. Statistical Analysis Details and Results for Appendix IV Parameters at SIS Wells

Parameter	Detected in Downgradient Wells?	GWPS		GWPS Type	Statistical Method to Assess Well Data With One or More Measurements Above the GWPS	Exceedance
		Value	Units			
Antimony	Yes	6	ug/L	MCL	-	No
Lithium	Yes	40	ug/L	MCL	-	No
Thallium	Yes	3	ug/L	MCL	Non-Parametric LCL for Median	No
Fluoride	Yes	4	mg/L	MCL	-	No
Arsenic	Yes	10	ug/L	MCL	Non-Parametric LCL for Median and Kaplan Meier LCL for Mean	No
Barium	Yes	2000	ug/L	MCL	-	No
Beryllium	No	4	ug/L	MCL	-	No
Cadmium	Yes	5	ug/L	MCL	-	No
Chromium	Yes	100	ug/L	MCL	-	No
Cobalt	Yes	6	ug/L	MCL	Non-Parametric LCL for Median	No
Lead	Yes	15	ug/L	MCL	-	No
Molybdenum	Yes	100	ug/L	MCL	-	No
Selenium	Yes	50	ug/L	MCL	-	No
Mercury	No	2	ug/L	MCL	-	No
Radium 226 and 228	Yes	5	pCi/L	MCL	Kaplan Meier 95% LCL for Mean	No

Table 5-4. Statistical Analysis Details and Results for Appendix IV Parameters at Landfill Wells

Parameter	Detected in Downgradient Wells?	GWPS		GWPS Type	Statistical Method to Assess Non Excluded Well Data With One or More Measurements Above the GWPS	Exceedance
		Value	Units			
Antimony	Yes	6	ug/L	MCL	-	No
Lithium	Yes	40	ug/L	MCL	-	No
Thallium	Yes	3	ug/L	MCL	-	No
Fluoride	Yes	4	mg/L	MCL	-	No
Arsenic	Yes	10	ug/L	MCL	-	No
Barium	Yes	2000	ug/L	MCL	-	No
Beryllium	Yes	4	ug/L	MCL	-	No
Cadmium	Yes	5	ug/L	MCL	-	No
Chromium	Yes	100	ug/L	MCL	-	No
Cobalt	Yes	6	ug/L	MCL	Parametric 95% LCL for Mean and Non-Parametric LCL for Median	No
Lead	Yes	15	ug/L	MCL	-	No
Molybdenum	Yes	100	ug/L	MCL	-	No
Selenium	Yes	50	ug/L	MCL	-	No
Mercury	Yes	2	ug/L	MCL	-	No
Radium 226 and 228	Yes	5	pCi/L	MCL	Parametric 95% LCL for Mean	Yes, for LF-5, see ASD (ITS 2023)

6.0 Groundwater Monitoring Program Status of CCR Units

Because Appendix III and/or IV parameters were detected at levels showing a SSI over background concentrations for the CCR landfill, the unit will remain under the assessment monitoring program (AMP), which was initially established on January 10, 2018 (i.e., within the 90 days provided by §257.94(e)(1)). Due to the closure of the SIS and two consecutive monitoring events with no SSLs above the GWPS in July 2023 and January 2024, the monitoring program for the SIS has been terminated.

Sample results from LF-5, added in 2020, continue to show elevated levels of combined radium. Combined radium results from LF-5 were reported as an SSL over the GWPS in 2021. An ASD was completed in March 2022, which demonstrated that the radium is a result of a naturally occurring, spatially heterogeneous native clay layer located in the vicinity of LF-5 (ITS 2023). Given the spatially and temporally heterogeneous trends of naturally occurring radium discussed in the ASD, the spatial homogeneity assumption of interwell testing cannot be held, and interwell testing is not able to detect an SSL of combined radium at this well. Given that there is no background data for LF-5 before waste placement, intrawell testing cannot detect an SSL above the GWPS of combined radium at LF-5. Combined radium will not be considered an SSL under assessment monitoring for LF-5 moving forward.

SIS closure by removal was completed per the requirements of §257.102(c). All CCR materials were removed. There have been no historical SSLs of Appendix IV parameters above the respective GWPS. The groundwater monitoring program specific to the SIS has been terminated as of closure in April 2024.

7.0 Upcoming Activities

Prediction limits with retesting are expected to be updated in approximately three to four years for parameters for which 8 new samples are available, as described in the GWMP (ITS 2021).

Groundwater sampling for the landfill will continue under the AMP, including January and July 2025 (i.e., semi-annual) sampling of all previously-detected Appendix III/IV parameters and July 2025 (i.e., annual) sampling of all Appendix III/IV parameters. Monitoring of Appendix III/IV parameters under the AMP for the landfill will continue until the occurrence of two consecutive sampling events with no SSI above background concentrations, in which case the unit will be returned to detection monitoring.

8.0 Rate and Direction of Groundwater Flow

The CCR landfill and SIS (and adjacent process ponds) are each surrounded by a slurry wall containment system keyed into an existing natural clay layer – the CCR units were

designed to be hydraulically isolated from the surrounding surficial aquifer. Therefore, it is not possible to use the groundwater monitoring wells located outside the slurry wall of each CCR unit to estimate the groundwater flow rate and direction of the uppermost aquifer beneath each CCR unit.

An existing site (non-CCR) groundwater monitoring well network (including 12 wells) is currently being monitored on a quarterly basis. Depth-to-liquid readings from the semi-annual and annual groundwater monitoring events (i.e., January 2024 and July 2024, respectively) from this site-wide groundwater monitoring well network were used to develop an estimate of the rate and direction of groundwater flow in the uppermost aquifer at the site. The groundwater elevation data from all site wells and piezometers were used for the development of the potentiometric contour maps presented in Attachment C. Potentiometric contour maps were developed using QGIS software. The average gradient of the uppermost aquifer groundwater flow between background and downgradient wells at the site was found to be 0.002 ft/ft for both the January and July sampling events.

As described in the Groundwater Sampling and Analysis Program for the CCR Units (ITS 2021), the rate of groundwater flow can be calculated using the following equation:

$$V = \frac{K * i}{N_e}$$

Where:

- V is equal to the groundwater velocity,
- K is the hydraulic conductivity of aquifer,
- i the hydraulic gradient,
- N_e is the effective porosity of the aquifer

The effective porosity and hydraulic conductivity of the native surficial silty-sandy soils of the site were estimated by UES (2017). The effective porosity is estimated as the midpoint of the fillable porosity range provided: 17.5%. The hydraulic conductivity is estimated as the midpoint of values provided for the horizontal hydraulic conductivity: 3.0 feet per day. Therefore, the estimated average groundwater velocity at the site is approximately 0.03 feet per day.

9.0 References

- ECT (2015). Arsenic and Gross Alpha Exceedances: Plan of Study. Deerhaven Generating Station, Gainesville, Florida.
- ITS (2021). Groundwater Sampling and Analysis Program for the Coal Combustion Residuals Units. Gainesville Regional Utilities Deerhaven Generating Station. Innovative Technical Solutions, LLC (ITS).
- ITS (2023). 2022 Annual Groundwater Monitoring and Corrective Action Report. Prepared for Gainesville Regional Utilities, Deerhaven Generating Station by Innovative Waste Consulting Services, January 2018.
- UES (2017). Geotechnical Consulting Services – Coal Combustion Residuals (CCR) Surface Impoundment System and Landfill Groundwater Monitoring Systems Design and Construction. Prepared by Universal Engineering Sciences for Innovative Waste Consulting Services, LLC. April 6, 2017.
- UES (2019). Coal Combustion Residuals (CCR) Surface Impoundment System and Updated Landfill Groundwater Monitoring Systems Design and Construction. Prepared by Universal Engineering Sciences for Innovative Waste Consulting Services, LLC. July 10, 2019, Draft Report.
- UES (2020). Geotechnical Consulting Services – Coal Combustion Residuals (CCR) Surface Impoundment System and Updated Landfill Groundwater Monitoring Systems Design and Construction, Deerhaven Generating Station (DGS), 10001 NW 13th Street, Gainesville, Alachua County, Florida. Prepared for Innovative Waste Consulting Services, LLC by Universal Engineering Sciences, November 2020.
- USGS (1989). Geochemistry of the Floridan Aquifer System in Florida and in Parts of Georgia, South Carolina, and Alabama. U.S. Geological Survey Professional Paper 1403-1.

10.0 Professional Engineer Certification

This plan was prepared under the supervision, direction and control of the undersigned, registered professional engineer (PE). The undersigned PE is familiar with and has prepared this annual groundwater monitoring and correction action report in accordance with the requirements of 40 CFR 257.90(e).

Name of Professional Engineer: James R. Wally

Company: Innovative Technical Solutions, LLC

PE Registration State: Florida

PE License No.: 85405

This item has been digitally signed and sealed by James Wally, PE, on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Attachment A
Sampling Laboratory Analysis Reports



February 08, 2024

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV1Q24
Pace Project No.: 35855470

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: ENV1Q24

Pace Project No.: 35855470

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 2950
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA010
 Louisiana DEQ/TNI Certification #: 04086
 Maine Certification #: 2023021
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572023-03
 New Hampshire/TNI Certification #: 297622
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-015
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: TN02867
 Texas/TNI Certification #: T104704188-22-18
 Utah/TNI Certification #: PA014572223-14
 USDA Soil Permit #: 525-23-67-77263
 Vermont Dept. of Health: ID# VT-0282
 Virgin Island/PADEP Certification
 Virginia/VELAP Certification #: 460198
 Washington Certification #: C868
 West Virginia DEP Certification #: 143
 West Virginia DHHR Certification #: 9964C
 Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
 Alaska DEC- CS/UST/LUST
 Alabama Certification #: 41320
 California Certification# 3096
 Colorado Certification: FL NELAC Reciprocity
 Connecticut Certification #: PH-0216
 Delaware Certification: FL NELAC Reciprocity
 DoD-ANAB #:ADE-3199
 Florida Certification #: E83079
 Georgia Certification #: 955
 Guam Certification: FL NELAC Reciprocity
 Hawaii Certification: FL NELAC Reciprocity
 Illinois Certification #: 200068
 Indiana Certification: FL NELAC Reciprocity
 Kansas Certification #: E-10383
 Kentucky Certification #: 90050
 Louisiana Certification #: FL NELAC Reciprocity
 Louisiana Environmental Certificate #: 05007
 Maine Certification #: FL01264
 Maryland Certification: #346
 Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911
 Mississippi Certification: FL NELAC Reciprocity
 Missouri Certification #: 236
 Montana Certification #: Cert 0074
 Nebraska Certification: NE-OS-28-14
 New Hampshire Certification #: 2958
 New Jersey Certification #: FL022
 New York Certification #: 11608
 North Carolina Environmental Certificate #: 667
 North Carolina Certification #: 12710
 North Dakota Certification #: R-216
 Ohio DEP 87780
 Oklahoma Certification #: D9947
 Pennsylvania Certification #: 68-00547
 Puerto Rico Certification #: FL01264
 South Carolina Certification: #96042001
 Tennessee Certification #: TN02974
 Texas Certification: FL NELAC Reciprocity
 US Virgin Islands Certification: FL NELAC Reciprocity
 Virginia Environmental Certification #: 460165
 West Virginia Certification #: 9962C

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV1Q24

Pace Project No.: 35855470

Pace Analytical Services Ormond Beach

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35855470001	1Q24-R1T6	Water	01/10/24 13:16	01/23/24 09:55
35855470002	1Q24-R2T1	Water	01/08/24 14:48	01/23/24 09:55
35855470003	1Q24-R3T7	Water	01/10/24 11:19	01/23/24 09:55
35855470004	1Q24-R4T5	Water	01/08/24 11:55	01/23/24 09:55
35855470005	1Q24-R6T1	Water	01/08/24 10:23	01/23/24 09:55
35855470006	1Q24-R6T4	Water	01/10/24 08:52	01/23/24 09:55
35855470007	1Q24-R6T8	Water	01/17/24 11:35	01/23/24 09:55
35855470008	1Q24-R6T12	Water	01/18/24 08:17	01/23/24 09:55
35855470009	1Q24-R8T10	Water	01/18/24 10:27	01/23/24 09:55
35855470010	1Q24-R9T5	Water	01/10/24 14:44	01/23/24 09:55
35855470011	1Q24-R10T8	Water	01/18/24 13:21	01/23/24 09:55
35855470012	1Q24-R11T4	Water	01/18/24 12:24	01/23/24 09:55
35855470013	1Q24-DEEP	Water	01/17/24 12:35	01/23/24 09:55
35855470014	1Q24-EBLANK1	Water	01/10/24 15:12	01/23/24 09:55
35855470015	1Q24-SIS-1	Water	01/11/24 09:23	01/23/24 09:55
35855470016	1Q24-SIS-2	Water	01/11/24 10:12	01/23/24 09:55
35855470017	1Q24-SIS-3	Water	01/11/24 11:22	01/23/24 09:55
35855470018	1Q24-SIS-4	Water	01/11/24 12:30	01/23/24 09:55
35855470019	1Q24-LF-1	Water	01/11/24 08:21	01/23/24 09:55
35855470020	1Q24-LF-2	Water	01/11/24 13:38	01/23/24 09:55
35855470021	1Q24-LF-3	Water	01/12/24 08:10	01/23/24 09:55
35855470022	1Q24-LF-4	Water	01/12/24 09:14	01/23/24 09:55
35855470023	1Q24-LF-5	Water	01/17/24 09:20	01/23/24 09:55
35855470024	1Q24-LF-6	Water	01/17/24 10:14	01/23/24 09:55
35855470025	1Q24-EBLANK2	Water	01/11/24 13:10	01/23/24 09:55
35855470026	1Q24-Barnstead	Water	01/08/24 07:36	01/23/24 09:55

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470001	1Q24-R1T6	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470002	1Q24-R2T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470003	1Q24-R3T7	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470004	1Q24-R4T5	EPA 6020B	MT1	4	PASI-GA
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470005	1Q24-R6T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470006	1Q24-R6T4	EPA 6020B	MT1	4	PASI-GA
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35855470007	1Q24-R6T8	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
35855470008	1Q24-R6T12	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 353.2	KW1	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470009	1Q24-R8T10	EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
35855470010	1Q24-R9T5	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
35855470011	1Q24-R10T8	SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470012	1Q24-R11T4	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
35855470013	1Q24-DEEP	EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
35855470014	1Q24-EBLANK1	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
35855470015	1Q24-SIS-1	SM 5310B	EAD	1	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35855470016	1Q24-SIS-2	EPA 300.0	VAG	3	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470017	1Q24-SIS-3	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470018	1Q24-SIS-4	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470019	1Q24-LF-1	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470020	1Q24-LF-2	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470021	1Q24-LF-3	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470022	1Q24-LF-4	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470023	1Q24-LF-5	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470024	1Q24-LF-6	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470025	1Q24-EBLANK2	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470026	1Q24-Barnstead	EPA 6020B	MT1	4	PASI-GA
		EPA 300.0	CMB	3	PASI-O

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

PASI-O = Pace Analytical Services - Ormond Beach

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R4T5 **Lab ID: 35855470004** Collected: 01/08/24 11:55 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 16:47	7440-36-0	
Boron	15.1 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 16:47	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 16:47	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 16:47	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	4.6 I	mg/L	5.0	2.5	1		01/25/24 01:55	16887-00-6	
Fluoride	0.28	mg/L	0.050	0.015	1		01/25/24 01:55	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/25/24 01:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.083	mg/L	0.050	0.015	1		01/30/24 15:55		
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	23.1	mg/L	1.0	0.50	1		01/26/24 04:05	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R6T4 Lab ID: 35855470006 Collected: 01/10/24 08:52 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 16:50	7440-36-0	
Boron	24.9 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 16:50	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 16:50	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 16:50	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	12.5	mg/L	5.0	2.5	1		01/27/24 22:23	16887-00-6	
Fluoride	0.076	mg/L	0.050	0.015	1		01/27/24 22:23	16984-48-8	
Sulfate	64.3	mg/L	5.0	2.5	1		01/27/24 22:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		01/31/24 20:12		
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	7.0	mg/L	1.0	0.50	1		01/29/24 18:13	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK1 Lab ID: 35855470014 Collected: 01/10/24 15:12 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		01/28/24 04:55	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/28/24 04:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		01/31/24 22:04		
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	0.50 U	mg/L	1.0	0.50	1		01/29/24 20:51	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-1 Lab ID: 35855470015 Collected: 01/11/24 09:23 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.56 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:05	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:05	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:05	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:05	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	30.1	mg/L	5.0	2.5	1		01/29/24 18:00	16887-00-6	
Fluoride	0.17	mg/L	0.050	0.015	1		01/29/24 18:00	16984-48-8	
Sulfate	28.0	mg/L	5.0	2.5	1		01/29/24 18:00	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-2 Lab ID: 35855470016 Collected: 01/11/24 10:12 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:09	7440-36-0	
Boron	41.1	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:09	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:09	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:09	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	159	mg/L	25.0	12.5	5		01/29/24 18:22	16887-00-6	
Fluoride	0.27	mg/L	0.25	0.073	5		01/29/24 18:22	16984-48-8	
Sulfate	370	mg/L	25.0	12.5	5		01/29/24 18:22	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-3 Lab ID: 35855470017 Collected: 01/11/24 11:22 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:13	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:13	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:13	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:13	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	11.9	mg/L	5.0	2.5	1		01/29/24 18:43	16887-00-6	
Fluoride	0.13	mg/L	0.050	0.015	1		01/29/24 18:43	16984-48-8	
Sulfate	6.5	mg/L	5.0	2.5	1		01/29/24 18:43	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-4 **Lab ID: 35855470018** Collected: 01/11/24 12:30 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:24	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:24	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:24	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:24	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	11.3	mg/L	5.0	2.5	1		01/29/24 19:04	16887-00-6	
Fluoride	0.22	mg/L	0.050	0.015	1		01/29/24 19:04	16984-48-8	
Sulfate	12.5	mg/L	5.0	2.5	1		01/29/24 19:04	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-1 Lab ID: 35855470019 Collected: 01/11/24 08:21 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	2.1 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:28	7440-36-0	
Boron	117	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:28	7440-42-8	
Lithium	3.6 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:28	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:28	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	8.0	mg/L	5.0	2.5	1		01/29/24 19:26	16887-00-6	
Fluoride	0.11	mg/L	0.050	0.015	1		01/29/24 19:26	16984-48-8	
Sulfate	13.2	mg/L	5.0	2.5	1		01/29/24 19:26	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-2 Lab ID: 35855470020 Collected: 01/11/24 13:38 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:32	7440-36-0	
Boron	36.1 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:32	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:32	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:32	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	42.1	mg/L	5.0	2.5	1		01/29/24 19:47	16887-00-6	
Fluoride	0.25	mg/L	0.050	0.015	1		01/29/24 19:47	16984-48-8	
Sulfate	18.9	mg/L	5.0	2.5	1		01/29/24 19:47	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-3 Lab ID: 35855470021 Collected: 01/12/24 08:10 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:35	7440-36-0	
Boron	2120	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:35	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:35	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:35	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	21.7	mg/L	5.0	2.5	1		01/29/24 20:09	16887-00-6	
Fluoride	0.031 I	mg/L	0.050	0.015	1		01/29/24 20:09	16984-48-8	
Sulfate	98.2	mg/L	5.0	2.5	1		01/29/24 20:09	14808-79-8	J(M1)

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-4 **Lab ID: 35855470022** Collected: 01/12/24 09:14 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:39	7440-36-0	
Boron	218	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:39	7440-42-8	
Lithium	6.9 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:39	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:39	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	18.4	mg/L	5.0	2.5	1		01/29/24 21:56	16887-00-6	
Fluoride	0.086	mg/L	0.050	0.015	1		01/29/24 21:56	16984-48-8	
Sulfate	47.0	mg/L	5.0	2.5	1		01/29/24 21:56	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-5 Lab ID: 35855470023 Collected: 01/17/24 09:20 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.76 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:43	7440-36-0	
Boron	731	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:43	7440-42-8	
Lithium	1.6 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:43	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:43	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	22.4	mg/L	5.0	2.5	1		01/29/24 22:18	16887-00-6	
Fluoride	0.096	mg/L	0.050	0.015	1		01/29/24 22:18	16984-48-8	
Sulfate	314	mg/L	25.0	12.5	5		01/30/24 08:40	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-6 Lab ID: 35855470024 Collected: 01/17/24 10:14 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:47	7440-36-0	
Boron	14.4 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:47	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:47	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:47	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	3.1 I	mg/L	5.0	2.5	1		01/29/24 22:39	16887-00-6	
Fluoride	0.040 I	mg/L	0.050	0.015	1		01/29/24 22:39	16984-48-8	
Sulfate	15.8	mg/L	5.0	2.5	1		01/29/24 22:39	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK2 Lab ID: 35855470025 Collected: 01/11/24 13:10 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:50	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:50	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:50	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:50	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		01/29/24 23:00	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		01/29/24 23:00	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/29/24 23:00	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	828557	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025, 35855470026		

METHOD BLANK:	4283207	Matrix:	Water
Associated Lab Samples:	35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025, 35855470026		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.54 U	3.0	0.54	01/30/24 16:39	
Boron	ug/L	11.9 U	40.0	11.9	01/30/24 16:39	
Lithium	ug/L	1.6 U	30.0	1.6	01/30/24 16:39	
Thallium	ug/L	0.38 U	1.0	0.38	01/30/24 16:39	

LABORATORY CONTROL SAMPLE: 4283208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	100	102	102	80-120	
Boron	ug/L	1000	1110	111	80-120	
Lithium	ug/L	100	110	110	80-120	
Thallium	ug/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4283209 4283210

Parameter	Units	35855470006		4283210		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	ug/L	0.54 U	100	100	104	105	104	105	75-125	1	20
Boron	ug/L	24.9 I	1000	1000	1040	1040	102	102	75-125	0	20
Lithium	ug/L	1.6 U	100	100	102	102	102	102	75-125	0	20
Thallium	ug/L	0.38 U	100	100	94.8	95.1	95	95	75-125	0	20

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	983579	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470004, 35855470005, 35855470026		

METHOD BLANK: 5410198 Matrix: Water
 Associated Lab Samples: 35855470004, 35855470005, 35855470026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/24/24 15:36	
Fluoride	mg/L	0.015 U	0.050	0.015	01/24/24 15:36	
Sulfate	mg/L	2.5 U	5.0	2.5	01/24/24 15:36	

LABORATORY CONTROL SAMPLE: 5410199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5412413 5412414

Parameter	Units	35855009004		5412413		5412414		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	9.0	50	50	58.3	57.5	99	97	90-110	1	20	
Fluoride	mg/L	0.50	5	5	5.7	5.6	104	103	90-110	1	20	
Sulfate	mg/L	2.5 U	50	50	49.8	49.2	96	94	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5412415 5412416

Parameter	Units	35855224001		5412415		5412416		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	27.4	50	50	78.2	83.4	102	112	90-110	6	20 J(M1)
Fluoride	mg/L	0.65	5	5	5.5	6.1	98	108	90-110	9	20
Sulfate	mg/L	106	100	100	214	215	108	109	90-110	0	20 L

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984246	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470002

METHOD BLANK: 5413879 Matrix: Water

Associated Lab Samples: 35855470002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/26/24 16:23	
Sulfate	mg/L	2.5 U	5.0	2.5	01/26/24 16:23	

LABORATORY CONTROL SAMPLE: 5413880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	
Sulfate	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415343 5415344

Parameter	Units	35856196001		5415343		5415344		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	11.6	11.6	50	50	61.5	60.8	100	98	90-110	1	20	
Sulfate	mg/L	13.3	13.3	50	50	63.0	62.2	99	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415345 5415346

Parameter	Units	35855290003		5415345		5415346		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	48.2	48.2	50	50	103	102	110	109	90-110	1	20 L	
Sulfate	mg/L	2.5 U	2.5 U	50	50	48.3	47.7	94	93	90-110	1	20	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984475	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470001, 35855470003, 35855470006

METHOD BLANK: 5415139 Matrix: Water
 Associated Lab Samples: 35855470001, 35855470003, 35855470006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/27/24 13:32	
Fluoride	mg/L	0.015 U	0.050	0.015	01/27/24 13:32	
Sulfate	mg/L	2.5 U	5.0	2.5	01/27/24 13:32	

LABORATORY CONTROL SAMPLE: 5415140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.8	94	90-110	
Fluoride	mg/L	5	5.0	99	90-110	
Sulfate	mg/L	50	46.4	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5416058 5416059

Parameter	Units	35855644001		5416058		5416059		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	38.9	38.9	50	50	93.4	93.9	109	110	90-110	1	20	
Fluoride	mg/L	0.68	0.68	5	5	5.9	5.9	104	105	90-110	1	20	
Sulfate	mg/L	11.2	11.2	50	50	60.2	60.4	98	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5416060 5416061

Parameter	Units	35855470003		5416060		5416061		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	9.3	9.3	50	50	59.3	58.6	100	99	90-110	1	20	
Fluoride	mg/L	0.30	0.30	5	5	5.5	5.4	104	103	90-110	1	20	
Sulfate	mg/L	56.2	56.2	50	50	112	112	112	111	90-110	0	20	J(M1), L

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984493	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

METHOD BLANK:	5415283	Matrix:	Water
Associated Lab Samples:	35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/27/24 19:16	
Sulfate	mg/L	2.5 U	5.0	2.5	01/27/24 19:16	

LABORATORY CONTROL SAMPLE: 5415284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415872 5415873

Parameter	Units	5415872		5415873		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	259	250	527	539	107	112	90-110	2	20	J(M1), L
Sulfate	mg/L	52.2	250	297	301	98	100	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415876 5415877

Parameter	Units	5415876		5415877		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	27.5	50	82.3	82.5	110	110	90-110	0	20	
Sulfate	mg/L	177	50	279	279	131	130	90-110	0	20	J(M1), L

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984780	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470010, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025		

METHOD BLANK:	5416120	Matrix:	Water
Associated Lab Samples:	35855470010, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/29/24 16:13	
Fluoride	mg/L	0.015 U	0.050	0.015	01/29/24 16:13	
Sulfate	mg/L	2.5 U	5.0	2.5	01/29/24 16:13	

LABORATORY CONTROL SAMPLE: 5416121						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417865												5417866	
Parameter	Units	35855470021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	21.7	50	50	73.7	74.0	104	105	90-110	0	20		
Fluoride	mg/L	0.031	5	5	4.9	4.9	98	98	90-110	0	20		
Sulfate	mg/L	98.2	50	50	157	157	117	117	90-110	0	20	J(M1), L	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417867												5417868	
Parameter	Units	35855843001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	7.9	50	50	58.2	58.5	101	101	90-110	0	20		
Fluoride	mg/L	0.15	5	5	5.2	5.2	101	102	90-110	0	20		
Sulfate	mg/L	ND	50	50	49.7	50.0	96	97	90-110	0	20		

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 985088	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, preserved
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470004, 35855470005

METHOD BLANK: 5417520 Matrix: Water

Associated Lab Samples: 35855470004, 35855470005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/30/24 15:15	

LABORATORY CONTROL SAMPLE: 5417521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417523 5417522

Parameter	Units	35855920005		5417522		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.9	2.0	97	98	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417525 5417524

Parameter	Units	35856557005		5417524		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.65	2	2	2.5	2.5	93	92	90-110	1	20	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 985089

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470002

METHOD BLANK: 5417527

Matrix: Water

Associated Lab Samples: 35855470002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 01:52	

LABORATORY CONTROL SAMPLE: 5417528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417530 5417529

Parameter	Units	35856608001		5417529		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.13	2	2	1.9	2.0	89	92	90-110	3	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417532 5417531

Parameter	Units	35855420005		5417531		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	11.1	20	20	28.1	27.4	85	81	90-110	2	20	J(M1)

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 985455

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470006

METHOD BLANK: 5419483

Matrix: Water

Associated Lab Samples: 35855470006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 19:35	

LABORATORY CONTROL SAMPLE: 5419484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419486 5419485

Parameter	Units	35855630001		5419486		5419485		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.5	1.5	73	74	90-110	1	20	J(M1)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419488 5419487

Parameter	Units	35856917003		5419488		5419487		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	2.1	2	2	3.2	3.2	52	55	90-110	1	20	J(M1)	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	985502	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470001, 35855470003, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

METHOD BLANK:	5419884	Matrix:	Water
Associated Lab Samples:	35855470001, 35855470003, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 22:47	

LABORATORY CONTROL SAMPLE: 5419885						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419887												5419886	
Parameter	Units	35855470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.1	1.2	57	61	90-110	8	20	J(M1)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419889												5419888	
Parameter	Units	35855873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.63	2	2	2.2	2.2	79	79	90-110	0	20	J(M1)	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	983863	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470002, 35855470004, 35855470005		

METHOD BLANK: 5411633 Matrix: Water
 Associated Lab Samples: 35855470002, 35855470004, 35855470005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	01/26/24 00:13	

LABORATORY CONTROL SAMPLE: 5411634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5411635 5411636

Parameter	Units	35854934001		5411635		5411636		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Total Organic Carbon	mg/L	16.1	20	20	20	36.2	36.3	100	101	80-120	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5411637 5411638

Parameter	Units	35855595001		5411637		5411638		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Total Organic Carbon	mg/L	7.1	20	20	20	26.4	26.2	96	96	80-120	1	20

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 984679 Analysis Method: SM 5310B
 QC Batch Method: SM 5310B Analysis Description: 5310B TOC
 Laboratory: Pace Analytical Services - Ormond Beach
 Associated Lab Samples: 35855470001, 35855470003, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

METHOD BLANK: 5415798 Matrix: Water
 Associated Lab Samples: 35855470001, 35855470003, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	01/29/24 16:47	

LABORATORY CONTROL SAMPLE: 5415799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	20.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415800 5415801

Parameter	Units	35855470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.0	20	20	25.8	25.3	104	101	80-120	2	20	Y

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415802 5415803

Parameter	Units	35856217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	9.1	20	20	27.8	28.3	93	96	80-120	2	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R4T5 **Lab ID: 35855470004** Collected: 01/08/24 11:55 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	SM 7110C-2000	2.79U ± 1.56 (2.79) C:NA T:NA	pCi/L	02/07/24 20:33	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.48U ± 0.723 (1.48) C:NA T:92%	pCi/L	02/05/24 14:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.687U ± 0.344 (0.687) C:81% T:86%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.17U ± 1.07 (2.17)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-R6T4 Lab ID: 35855470006 Collected: 01/10/24 08:52 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
Gross Alpha	SM 7110C-2000	2.66 ± 1.56 (2.45) C:NA T:NA	pCi/L	02/07/24 18:26	12587-46-1	
Radium-226	EPA 903.1	1.40U ± 0.685 (1.40) C:NA T:82%	pCi/L	02/05/24 14:15	13982-63-3	
Radium-228	EPA 904.0	0.690U ± 0.362 (0.690) C:84% T:76%	pCi/L	02/05/24 12:10	15262-20-1	
Total Radium	Total Radium Calculation	2.09U ± 1.05 (2.09)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK1	Lab ID: 35855470014	Collected: 01/10/24 15:12	Received: 01/23/24 09:55	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Gross Alpha	SM 7110C-2000	3.01U ± 1.73 (3.01) C:NA T:NA	pCi/L	02/07/24 18:08	12587-46-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-1 Lab ID: 35855470015 Collected: 01/11/24 09:23 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.355 ± 0.327 (0.192) C:NA T:86%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.657U ± 0.347 (0.657) C:80% T:78%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.849U ± 0.674 (0.849)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-2 Lab ID: 35855470016 Collected: 01/11/24 10:12 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.23U ± 0.700 (1.23) C:NA T:74%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.15 ± 0.481 (0.708) C:80% T:73%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94U ± 1.18 (1.94)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-3 **Lab ID: 35855470017** Collected: 01/11/24 11:22 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.876U ± 0.456 (0.876) C:NA T:92%	pCi/L	02/05/24 14:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.645U ± 0.326 (0.645) C:83% T:84%	pCi/L	02/05/24 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.52U ± 0.782 (1.52)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-4 Lab ID: 35855470018 Collected: 01/11/24 12:30 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.898U ± 0.414 (0.898) C:NA T:89%	pCi/L	02/05/24 14:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.963U ± 0.486 (0.963) C:78% T:84%	pCi/L	02/05/24 15:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.86U ± 0.900 (1.86)	pCi/L	02/07/24 09:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-1 Lab ID: 35855470019 Collected: 01/11/24 08:21 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.02U ± 0.673 (1.02) C:NA T:88%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.836U ± 0.409 (0.836) C:86% T:78%	pCi/L	02/05/24 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.86U ± 1.08 (1.86)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-2						
Lab ID: 35855470020						
Collected: 01/11/24 13:38						
Received: 01/23/24 09:55						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.04U ± 0.684 (1.04) C:NA T:88%	pCi/L	02/05/24 14:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.612U ± 0.233 (0.612) C:87% T:84%	pCi/L	02/05/24 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.65U ± 0.917 (1.65)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-3 Lab ID: 35855470021 Collected: 01/12/24 08:10 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.18 ± 0.660 (0.847) C:NA T:107%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.24 ± 0.558 (0.964) C:87% T:76%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.41 ± 1.22 (1.81)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-4 **Lab ID: 35855470022** Collected: 01/12/24 09:14 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.844U ± 0.457 (0.844) C:NA T:81%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.723U ± 0.322 (0.723) C:87% T:71%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.57U ± 0.779 (1.57)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-5						
Lab ID: 35855470023						
Collected: 01/17/24 09:20						
Received: 01/23/24 09:55						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	4.82 ± 1.32 (0.210) C:NA T:76%	pCi/L	02/05/24 14:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	2.82 ± 0.750 (0.739) C:89% T:69%	pCi/L	02/05/24 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	7.63 ± 2.07 (0.949)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-6 **Lab ID: 35855470024** Collected: 01/17/24 10:14 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.06U ± 0.394 (1.06) C:NA T:86%	pCi/L	02/05/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.677U ± 0.318 (0.677) C:90% T:80%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74U ± 0.712 (1.74)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK2	Lab ID: 35855470025	Collected: 01/11/24 13:10	Received: 01/23/24 09:55	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.13U ± 0.504 (1.13) C:NA T:85%	pCi/L	02/05/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.849U ± 0.407 (0.849) C:90% T:82%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.98U ± 0.911 (1.98)	pCi/L	02/07/24 09:54	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	644981	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

METHOD BLANK: 3143115 Matrix: Water

Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0568 ± 0.259 (0.527) C:NA T:90%	pCi/L	02/05/24 14:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	644983	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

METHOD BLANK:	3143116	Matrix:	Water
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Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.442 ± 0.326 (0.620) C:80% T:75%	pCi/L	02/05/24 12:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	646707	Analysis Method:	SM 7110C-2000
QC Batch Method:	SM 7110C-2000	Analysis Description:	7110C Gross Alpha
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470001, 35855470002, 35855470003, 35855470004, 35855470005, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

METHOD BLANK: 3150740 Matrix: Water

Associated Lab Samples: 35855470001, 35855470002, 35855470003, 35855470004, 35855470005, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.872 ± 1.06 (2.18) C:NA T:NA	pCi/L	02/08/24 08:34	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: ENV1Q24

Pace Project No.: 35855470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470004	1Q24-R4T5	EPA 3005A	828557	EPA 6020B	828677
35855470006	1Q24-R6T4	EPA 3005A	828557	EPA 6020B	828677
35855470015	1Q24-SIS-1	EPA 3005A	828557	EPA 6020B	828677
35855470016	1Q24-SIS-2	EPA 3005A	828557	EPA 6020B	828677
35855470017	1Q24-SIS-3	EPA 3005A	828557	EPA 6020B	828677
35855470018	1Q24-SIS-4	EPA 3005A	828557	EPA 6020B	828677
35855470019	1Q24-LF-1	EPA 3005A	828557	EPA 6020B	828677
35855470020	1Q24-LF-2	EPA 3005A	828557	EPA 6020B	828677
35855470021	1Q24-LF-3	EPA 3005A	828557	EPA 6020B	828677
35855470022	1Q24-LF-4	EPA 3005A	828557	EPA 6020B	828677
35855470023	1Q24-LF-5	EPA 3005A	828557	EPA 6020B	828677
35855470024	1Q24-LF-6	EPA 3005A	828557	EPA 6020B	828677
35855470025	1Q24-EBLANK2	EPA 3005A	828557	EPA 6020B	828677
35855470026	1Q24-Barnstead	EPA 3005A	828557	EPA 6020B	828677
35855470001	1Q24-R1T6	SM 7110C-2000	646707		
35855470002	1Q24-R2T1	SM 7110C-2000	646707		
35855470003	1Q24-R3T7	SM 7110C-2000	646707		
35855470004	1Q24-R4T5	SM 7110C-2000	646707		
35855470005	1Q24-R6T1	SM 7110C-2000	646707		
35855470006	1Q24-R6T4	SM 7110C-2000	646707		
35855470007	1Q24-R6T8	SM 7110C-2000	646707		
35855470008	1Q24-R6T12	SM 7110C-2000	646707		
35855470009	1Q24-R8T10	SM 7110C-2000	646707		
35855470010	1Q24-R9T5	SM 7110C-2000	646707		
35855470011	1Q24-R10T8	SM 7110C-2000	646707		
35855470012	1Q24-R11T4	SM 7110C-2000	646707		
35855470013	1Q24-DEEP	SM 7110C-2000	646707		
35855470014	1Q24-EBLANK1	SM 7110C-2000	646707		
35855470004	1Q24-R4T5	EPA 903.1	644981		
35855470006	1Q24-R6T4	EPA 903.1	644981		
35855470015	1Q24-SIS-1	EPA 903.1	644981		
35855470016	1Q24-SIS-2	EPA 903.1	644981		
35855470017	1Q24-SIS-3	EPA 903.1	644981		
35855470018	1Q24-SIS-4	EPA 903.1	644981		
35855470019	1Q24-LF-1	EPA 903.1	644981		
35855470020	1Q24-LF-2	EPA 903.1	644981		
35855470021	1Q24-LF-3	EPA 903.1	644981		
35855470022	1Q24-LF-4	EPA 903.1	644981		
35855470023	1Q24-LF-5	EPA 903.1	644981		
35855470024	1Q24-LF-6	EPA 903.1	644981		
35855470025	1Q24-EBLANK2	EPA 903.1	644981		
35855470004	1Q24-R4T5	EPA 904.0	644983		
35855470006	1Q24-R6T4	EPA 904.0	644983		
35855470015	1Q24-SIS-1	EPA 904.0	644983		
35855470016	1Q24-SIS-2	EPA 904.0	644983		
35855470017	1Q24-SIS-3	EPA 904.0	644983		
35855470018	1Q24-SIS-4	EPA 904.0	644983		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470019	1Q24-LF-1	EPA 904.0	644983		
35855470020	1Q24-LF-2	EPA 904.0	644983		
35855470021	1Q24-LF-3	EPA 904.0	644983		
35855470022	1Q24-LF-4	EPA 904.0	644983		
35855470023	1Q24-LF-5	EPA 904.0	644983		
35855470024	1Q24-LF-6	EPA 904.0	644983		
35855470025	1Q24-EBLANK2	EPA 904.0	644983		
35855470004	1Q24-R4T5	Total Radium Calculation	647046		
35855470006	1Q24-R6T4	Total Radium Calculation	647046		
35855470015	1Q24-SIS-1	Total Radium Calculation	647046		
35855470016	1Q24-SIS-2	Total Radium Calculation	647046		
35855470017	1Q24-SIS-3	Total Radium Calculation	647046		
35855470018	1Q24-SIS-4	Total Radium Calculation	647046		
35855470019	1Q24-LF-1	Total Radium Calculation	647046		
35855470020	1Q24-LF-2	Total Radium Calculation	647046		
35855470021	1Q24-LF-3	Total Radium Calculation	647046		
35855470022	1Q24-LF-4	Total Radium Calculation	647046		
35855470023	1Q24-LF-5	Total Radium Calculation	647046		
35855470024	1Q24-LF-6	Total Radium Calculation	647046		
35855470025	1Q24-EBLANK2	Total Radium Calculation	647046		
35855470001	1Q24-R1T6	EPA 300.0	984475		
35855470002	1Q24-R2T1	EPA 300.0	984246		
35855470003	1Q24-R3T7	EPA 300.0	984475		
35855470004	1Q24-R4T5	EPA 300.0	983579		
35855470005	1Q24-R6T1	EPA 300.0	983579		
35855470006	1Q24-R6T4	EPA 300.0	984475		
35855470007	1Q24-R6T8	EPA 300.0	984493		
35855470008	1Q24-R6T12	EPA 300.0	984493		
35855470009	1Q24-R8T10	EPA 300.0	984493		
35855470010	1Q24-R9T5	EPA 300.0	984493		
35855470010	1Q24-R9T5	EPA 300.0	984780		
35855470011	1Q24-R10T8	EPA 300.0	984493		
35855470012	1Q24-R11T4	EPA 300.0	984493		
35855470013	1Q24-DEEP	EPA 300.0	984493		
35855470014	1Q24-EBLANK1	EPA 300.0	984493		
35855470015	1Q24-SIS-1	EPA 300.0	984780		
35855470016	1Q24-SIS-2	EPA 300.0	984780		
35855470017	1Q24-SIS-3	EPA 300.0	984780		
35855470018	1Q24-SIS-4	EPA 300.0	984780		
35855470019	1Q24-LF-1	EPA 300.0	984780		
35855470020	1Q24-LF-2	EPA 300.0	984780		
35855470021	1Q24-LF-3	EPA 300.0	984780		
35855470022	1Q24-LF-4	EPA 300.0	984780		
35855470023	1Q24-LF-5	EPA 300.0	984780		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470024	1Q24-LF-6	EPA 300.0	984780		
35855470025	1Q24-EBLANK2	EPA 300.0	984780		
35855470026	1Q24-Barnstead	EPA 300.0	983579		
35855470001	1Q24-R1T6	EPA 353.2	985502		
35855470002	1Q24-R2T1	EPA 353.2	985089		
35855470003	1Q24-R3T7	EPA 353.2	985502		
35855470004	1Q24-R4T5	EPA 353.2	985088		
35855470005	1Q24-R6T1	EPA 353.2	985088		
35855470006	1Q24-R6T4	EPA 353.2	985455		
35855470007	1Q24-R6T8	EPA 353.2	985502		
35855470008	1Q24-R6T12	EPA 353.2	985502		
35855470009	1Q24-R8T10	EPA 353.2	985502		
35855470010	1Q24-R9T5	EPA 353.2	985502		
35855470011	1Q24-R10T8	EPA 353.2	985502		
35855470012	1Q24-R11T4	EPA 353.2	985502		
35855470013	1Q24-DEEP	EPA 353.2	985502		
35855470014	1Q24-EBLANK1	EPA 353.2	985502		
35855470001	1Q24-R1T6	SM 5310B	984679		
35855470002	1Q24-R2T1	SM 5310B	983863		
35855470003	1Q24-R3T7	SM 5310B	984679		
35855470004	1Q24-R4T5	SM 5310B	983863		
35855470005	1Q24-R6T1	SM 5310B	983863		
35855470006	1Q24-R6T4	SM 5310B	984679		
35855470007	1Q24-R6T8	SM 5310B	984679		
35855470008	1Q24-R6T12	SM 5310B	984679		
35855470009	1Q24-R8T10	SM 5310B	984679		
35855470010	1Q24-R9T5	SM 5310B	984679		
35855470011	1Q24-R10T8	SM 5310B	984679		
35855470012	1Q24-R11T4	SM 5310B	984679		
35855470013	1Q24-DEEP	SM 5310B	984679		
35855470014	1Q24-EBLANK1	SM 5310B	984679		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St
Gainesville, FL 32653

Report To: Jeff Boudreau

Copy To:

Customer Project Name/Number: ENV1Q24

Phone: 352-393-6346

Email: boudreaujp@gru.com

Collected By (print): JC/KB

Collected By (signature):

Turnaround Date Required: Normal

Sample Disposal: [X] Dispose as appropriate [] Return [] Archive [] Hold

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
1Q24-R1T6	GW	Grab	1/10/24	13:16		3
1Q24-R2T1	GW	Grab	1/8/24	14:48		3
1Q24-R3T7	GW	Grab	1/10/24	11:19		3
1Q24-R4T5	GW	Grab	1/8/24	11:55		5
1Q24-R6T1	GW	Grab	1/8/24	10:23		3
1Q24-R6T4	GW	Grab	1/10/24	08:52		5
1Q24-R6T8	GW	Grab	1/17/24	11:35		3
1Q24-R6T12	GW	Grab	1/18/24	08:17		3
1Q24-R8T10	GW	Grab	1/18/24	10:27		3
1Q24-R9T5	GW	Grab	1/10/24	14:44		3

Customer Remarks / Special Conditions / Possible Hazards:

Shipped via FedEx

Relinquished by/Company: (Signature) *K. Brakfield, GRU* Date/Time: 1-22-24 / 13:00

Relinquished by/Company: (Signature) *NDPac* Date/Time: Received by/Company: (Signature)

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)

Billing Information: PO#4510060812

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

County/City: [] PT [] MT [] CT [] ET

Time Zone Collected: [] Yes [] No

Compliance Monitoring? [] Yes [] No

DW PWS ID #: DW Location Code: Immediately Packed on Ice: [X] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis: (Expedite Charges Apply)

WO#: 35855470

35855470

LAB USE

Container / Preservative Type	1	2	3	4	5	6	7	8	9	10	11	12
ICE												

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	NA
300.0 IC Anions (Cl, SO4, F)			
6020 Metals (Sb, Tl, B, Li)			
Sum of Radium 226+228			
353.2 Nitrogen, NO2/NO3			
Gross Alpha by 710C			
300.0 IC Anions (Cl, SO4, F)			

Lab Profile/Line:

Lab Sample Receipt Checklist:	Y	N	NA
Custody Seals Present/Intact			
Custody Signatures Present			
Collector Signature Present			
Bottles Intact			
Correct Bottles			
Sufficient Volume			
Samples Received on Ice			
VQA - Headspace Acceptable			
USDA Regulated Soils			
Samples in Holding Time			
Residual Chlorine Present			
Cl Strips:			
Sample pH Acceptable			
pH Strips:			
Sulfide Present			
Lead Acetate Strips:			

LAB USE ONLY: Lab Sample # / Comments:

Lab Sample Temperature Info:

Temp Blank Received:	Y	N	NA
Therm ID#:			
Cooler 1 Temp Upon Receipt:			oC
Cooler 1 Therm Corr. Factor:			oC
Cooler 1 Corrected Temp:		0.6	oC
Comments:			

Lab Tracking #: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier Pace Courier

Table #: Acctnum: Template: Prelogin: PM: PB:

Received by/Company: (Signature) <i>NDPac</i>	Date/Time: 1-22-24 / 13:00
Received by/Company: (Signature)	Date/Time:
Received by/Company: (Signature)	Date/Time:



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Gainesville Regional Utilities

PO#4510060812

Address: 10001 NW 13th St, Gainesville, FL 32653

Report To: Jeff Boudreau

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

Site/Facility ID #: 35-000113 / DEELAB

Compliance Monitoring: [] Yes [] No

Purchase Order #: 4510060812

Turnaround Date Required: Normal

Sample Disposal: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix *, Comp/Grab, Collected (or Composite Start) Date, Time, Composite End Date, Time, Res Cl, # of Ctns. Rows include 1Q24-R10T8, 1Q24-R11T4, 1Q24-DEEP, 1Q24-EBLANK1, 1Q24-SIS-1, 1Q24-SIS-2, 1Q24-SIS-3, 1Q24-SIS-4, 1Q24-LF-1, 1Q24-LF-2.

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Shipped via FedEx. Relinquished by/Company: (Signature) GRU. Date/Time: 1-22-24 / 13:00.

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type ** table with columns ICE 2, 1, 1, 1, 1 and rows for various preservatives like (1) nitric acid, (2) sulfuric acid, etc.

Analyses table with columns for various chemical tests like 300.0 IC Anions (Cl, SO4), 353.2 Nitrogen, 5310B TOC, 6020 Metals, 300.0 IC Anions (Sb, Tl, B, Li), Sum of Radium 226+228.

Lab Profile/Line: Custody Seals Present/Intact, Custody Signatures Present, Collector Signatures Present, Bottles Intact, Correct Bottles, Sufficient Volume, Samples Received on Ice, VOA - Headspace Acceptable, USDA Regulated Soils, Samples in Holding Time, Residual Chlorine Present, Cl Strips, Sample pH Acceptable, pH Strips, Sulfide Present, Lead Acetate Strips.

Lab Sample Temperature Info: Temp Blank Received: Y N NA, Therm ID#, Cooler 1 Temp Upon Receipt: oC, Cooler 1 Therm Corr. Factor: oC, Cooler 1 Corrected Temp: 0.6 oC. Comments: Trip Blank Received: Y N NA, HCL MeOH TSP Other, Non Conformance(s): YES / NO.



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-In Number Here

Company: **Gainesville Regional Utilities**

Address: 10001 NW 13th St
Gainesville, FL 32653

Report To: **Jeff Boudreau**

Copy To:

Customer Project Name/Number:
ENV1Q24

Phone: 352-393-6346

Email: **boudreaujp@gru.com**

Collected By (print): **JCD/KB**

Collected By (signature):

Sample Disposal:
 Dispose as appropriate Return
 Archive: _____
 Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

1Q24-LF-3

1Q24-LF-4

1Q24-LF-5

1Q24-LF-6

1Q24-EBLANK2

1Q24-Barnstead

Billing Information:

PO#4510060812

Email To: **boudreaujp@gru.com**

Site Collection Info/Address:
Deerhaven Generating Station

State: **FL** / Gainesville [] PT [] MT [] CT [] ET

Time Zone Collected:

Compliance Monitoring?
[] Yes [] No

DW PWS ID #:
DW Location Code:

Immediately Packed on Ice:
 Yes [] No

Field Filtered (if applicable):
[] Yes [] No
Analysis: _____

Turnaround Date Required:
Normal

Rush:
[] Same Day [] Next Day
[] 2 Day [] 3 Day [] 4 Day [] 5 Day
(Expedite Charges Apply)

Collected (or Composite Start)
Date Time

1/12/24 08:10

1/12/24 09:14

1/17/24 09:20

1/17/24 10:14

1/11/24 13:10

1/8/24 07:36

Container Preservative Type **

ICE 2 1 1 ICE 1 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

353.2 Nitrogen, NO2/NO3

5310B TOC

Gross Alpha by 7110C

300.0 IC Anions (Cl, SO4)

300.0 IC Anions (Cl, SO4, F)

6020 Metals (Sb, Tl, B, Li)

Sum of Radium 226+228

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VQA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: _____

LAB USE ONLY:

Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:

FEDEX UPS Courier Pace Courier

Date/Time: _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: 6.6 oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Customer Remarks / Special Conditions / Possible Hazards:

Shipped via FedEx

Relinquished by/Company: (Signature)

Date/Time: 1-22-24 13:00

Relinquished by/Company: (Signature)

Date/Time: _____

Relinquished by/Company: (Signature)

Date/Time: _____

Table #: _____

Accnum: _____

Template: _____

Prelogin: _____

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

PM: _____

PB: _____

Non Conformance(s):

YES / NO

Page: 3 of 3

Pace

WO#: 35855470
 PM: JSB Due Date: 02/08/24
 CLIENT: DEELAB

Project #
 Project Manager:
 Client:

Date and Initials of person:
 Examining contents:
 Label:
 Deliver: TSI
 pH:
 Initials: NPI

Thermometer Used: T-414 Date: 1-23-24 Time: 0958

State of Origin: For WV projects, all containers verified to ≤6 °C
 Cooler #1 Temp. °C 0.6 (Visual) 0.0 (Correction Factor) 0.6 (Actual)
 Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2700 7099 0641

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (If yes, complete the following)
 Shorted Date: _____ Shorted Time: _____
 Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sufficient Volume.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Exceptions: Vials, Microbiology, O&G, PFAS									
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments): SOME samples arrived first overnight and some arrived later on the Fed Ex express truck later on. The two SCURBS reflect the different dropoffs

Pace

Sample Condition Upon Receipt Form (SCUR)
WO#: 35855470
 PM: JSB Due Date: 02/08/24
 CLIENT: DEELAB

Project #
 Project Manager:
 Client:

Date and Initials of person:
 Examining contents:
 Label: JS/
 Deliver:
 pH:
 Initials: EASI

Thermometer Used: T-408 Date: 1/23/24 Time: 1114

State of Origin: _____
 For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	13.4 (Visual)	0 (Correction Factor)	13.4 (Actual)
Cooler #2 Temp.°C	14.4 (Visual)	(Correction Factor)	14.4 (Actual)
Cooler #3 Temp.°C	18.8 (Visual)	(Correction Factor)	18.8 (Actual)
Cooler #4 Temp.°C	15.2 (Visual)	(Correction Factor)	15.2 (Actual)
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)
Recheck for OOT °C	(Visual)	(Correction Factor)	(Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2700 7049 8752

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____ Shorted Time: _____
 Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: Vials, Microbiology, O&G, PFAS	
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Preservation Information
 Preservative: _____ Date: _____
 Lot / Trace: _____ Time: _____
 Amount added (mL): _____ Initials: _____

Comments / Resolutions (use back for additional comments):



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

March 13, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven Monitoring Wells

Enclosed are the results of analyses for samples received by the laboratory on 1/9/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24A032-01	R1T6 (MWD-1-6)	Groundwater	01/10/2024 13:16	01/11/2024 08:05
K24A032-02	R2T1 (MWB-2-1)	Groundwater	01/08/2024 14:48	01/09/2024 08:40
K24A032-03	R3T7 (MWI-3-7)	Groundwater	01/10/2024 11:19	01/11/2024 08:05
K24A032-04	R4T5B (MWI-4-5)	Groundwater	01/08/2024 11:55	01/09/2024 08:40
K24A032-05	R6T1B (MWD-6-1)	Groundwater	01/08/2024 09:51	01/09/2024 08:40
K24A032-06	R6T4B (MWI-6-4)	Groundwater	01/10/2024 08:52	01/11/2024 08:05
K24A032-07	R6T8B (MWI-6-8)	Groundwater	01/17/2024 11:35	01/17/2024 14:19
K24A032-08	R6T12 (MWD-6-12)	Groundwater	01/18/2024 08:17	01/18/2024 14:45
K24A032-09	R8T10 (MWC-8-10)	Groundwater	01/18/2024 10:27	01/18/2024 14:45
K24A032-10	R9T5B (MWI-9-5)	Groundwater	01/10/2024 14:44	01/11/2024 08:05
K24A032-11	R10T8 (MWC-10-8)	Groundwater	01/18/2024 13:21	01/18/2024 14:45
K24A032-12	R11T4B (MWC-11-4)	Groundwater	01/18/2024 12:24	01/18/2024 14:45
K24A032-13	DEEP-1 (MWC-DEEP)	Groundwater	01/17/2024 12:35	01/17/2024 14:19
K24A032-14	EBLANK1	Water	01/10/2024 15:12	01/11/2024 08:05
K24A032-15	BARNSTEAD	Water	01/08/2024 07:36	01/09/2024 08:40



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

R4T5B (MWI-4-5)
K24A032-04 (Groundwater, Grab)
Collected: 01/08/2024 11:55 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
---------	--------	------	-----	-----	-------	-----	----------	----------	--------

Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	103		5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.7	I	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	10.3		0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	92.4		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	18200		42.0	168	ug/L	10	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	28.0		0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	113		1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	0.34	I	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	7.08		0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	80.1		0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	3.1	I	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Color	120		25	100	Color Units	5	01/09/2024	01/09/2024	SM 2120B
Total Dissolved Solids	437		10	40	mg/L	1	01/11/2024	01/11/2024	SM 2540C
TSS		1 U	1	4	mg/L	1	01/10/2024	01/10/2024	SM 2540D



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

R6T4B (MWI-6-4)
K24A032-06 (Groundwater, Grab)
Collected: 01/10/2024 8:52 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	60.6		5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	14.2		0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	38.9		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	591		4.2	16.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	5.41		0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	24.7		1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.9	I	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	1.50		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	26.2		0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	73.5		0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	10.7	I	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Color	36		5	20	Color Units	1	01/11/2024	01/11/2024	SM 2120B
Total Dissolved Solids	203		10	40	mg/L	1	01/11/2024	01/11/2024	SM 2540C
TSS	1	U	1	4	mg/L	1	01/11/2024	01/11/2024	SM 2540D



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

EBLANK1

K24A032-14 (Water, Grab)

Collected: 01/10/2024 3:12 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	5.0	U	5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	4.2	U	4.2	16.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	0.01	U	0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	0.10	U	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	0.20	U	0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7

Blank (B24A149-BLK1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Vanadium	3.0U		3.0	12.0	ug/L						
Sodium	0.20U		0.20	0.80	mg/L						
Manganese	1.0U		1.0	4.0	ug/L						
Selenium	4.0U		4.0	16.0	ug/L						
Molybdenum	2.5U		2.5	10.0	ug/L						
Lead	3.0U		3.0	12.0	ug/L						
Iron	4.2U		4.2	16.8	ug/L						
Nickel	1.0U		1.0	4.0	ug/L						
Copper	1.5U		1.5	6.0	ug/L						
Potassium	0.10U		0.10	0.40	mg/L						
Magnesium	0.01U		0.01	0.04	mg/L						
Aluminum	5.0U		5.0	20.0	ug/L						
Silver	0.60U		0.60	2.40	ug/L						
Strontium	0.30U		0.30	1.20	ug/L						
Beryllium	0.10U		0.10	0.40	ug/L						
Cadmium	0.30U		0.30	1.20	ug/L						
Zinc	2.1U		2.1	8.4	ug/L						
Cobalt	1.0U		1.0	4.0	ug/L						
Barium	0.20U		0.20	0.80	ug/L						
Calcium	0.10U		0.10	0.40	mg/L						
Arsenic	2.5U		2.5	10.0	ug/L						
Chromium	1.2U		1.2	4.8	ug/L						

LCS (B24A149-BS1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Cobalt	98.3				ug/L	100		98.3	90-110		
Copper	98.2				ug/L	100		98.2	90-110		
Chromium	97.0				ug/L	100		97.0	90-110		
Calcium	24.0				mg/L	25.2		95.2	90-110		
Arsenic	101				ug/L	100		101	90-110		
Barium	96.9				ug/L	100		96.9	90-110		
Cadmium	99.1				ug/L	100		99.1	90-110		
Lead	99.1				ug/L	100		99.1	90-110		
Sodium	24.0				mg/L	25.1		95.5	90-110		
Aluminum	99.8				ug/L	100		99.8	90-110		
Iron	95.9				ug/L	100		95.9	90-110		
Strontium	94.4				ug/L	100		94.4	90-110		
Silver	51.4				ug/L	49.9		103	90-110		
Manganese	97.3				ug/L	100		97.3	90-110		
Selenium	93.6				ug/L	100		93.6	90-110		
Molybdenum	100				ug/L	100		100	90-110		
Zinc	98.0				ug/L	100		98.0	90-110		
Magnesium	24.4				mg/L	25.1		97.3	90-110		
Potassium	12.0				mg/L	12.6		95.3	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

LCS (B24A149-BS1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Beryllium	101				ug/L	100		101	90-110		
Vanadium	97.0				ug/L	100		97.0	90-110		
Nickel	102				ug/L	100		102	90-110		

Duplicate (B24A149-DUP1)

Source: K24A032-02

Prepared: 1/23/2024 Analyzed: 2/7/2024

Selenium	4.0U		4.0	16.0	ug/L		ND				NR
Potassium	0.25I		0.10	0.40	mg/L		0.25				0.287
Nickel	1.1I		1.0	4.0	ug/L		1.1				2.40
Molybdenum	2.5U		2.5	10.0	ug/L		ND				66.4
Magnesium	0.56		0.01	0.04	mg/L		0.56				1.26
Aluminum	128		5.0	20.0	ug/L		127				0.392
Lead	3.0U		3.0	12.0	ug/L		ND				0.838
Iron	160		4.2	16.8	ug/L		159				0.697
Manganese	6.4		1.0	4.0	ug/L		6.3				0.758
Silver	0.60U		0.60	2.40	ug/L		ND				NR
Sodium	2.58		0.20	0.80	mg/L		2.57				0.302
Vanadium	3.0U		3.0	12.0	ug/L		ND				8.04
Arsenic	2.5U		2.5	10.0	ug/L		ND				140
Zinc	2.1I		2.1	8.4	ug/L		ND				3.44
Beryllium	0.10U		0.10	0.40	ug/L		ND				NR
Copper	1.5U		1.5	6.0	ug/L		ND				17.8
Cobalt	1.0U		1.0	4.0	ug/L		ND				16.0
Calcium	4.00		0.10	0.40	mg/L		3.96				0.729
Chromium	1.6I		1.2	4.8	ug/L		1.6				0.227
Barium	1.62		0.20	0.80	ug/L		1.59				1.28
Strontium	16.1		0.30	1.20	ug/L		15.9				0.958
Cadmium	0.30U		0.30	1.20	ug/L		ND				48.4

Duplicate (B24A149-DUP2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Lead	3.0U		3.0	12.0	ug/L		ND				NR
Sodium	25.9		0.20	0.80	mg/L		26.2				0.845
Silver	0.60U		0.60	2.40	ug/L		ND				NR
Potassium	1.45		0.10	0.40	mg/L		1.46				0.390
Zinc	2.1U		2.1	8.4	ug/L		2.3				121
Vanadium	6.4I		3.0	12.0	ug/L		6.3				1.61
Strontium	194		0.30	1.20	ug/L		193				0.498
Nickel	2.4I		1.0	4.0	ug/L		2.4				1.89
Molybdenum	12.8		2.5	10.0	ug/L		12.6				1.22
Magnesium	11.2		0.01	0.04	mg/L		11.1				0.501
Selenium	4.0U		4.0	16.0	ug/L		ND				65.3
Iron	683		4.2	16.8	ug/L		678				0.521
Arsenic	2.5U		2.5	10.0	ug/L		ND				25.6
Manganese	22.8		1.0	4.0	ug/L		24.0				3.60



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

Duplicate (B24A149-DUP2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Aluminum	13.21		5.0	20.0	ug/L		12.9			1.58	
Copper	1.5U		1.5	6.0	ug/L		ND			30.9	
Barium	1.42		0.20	0.80	ug/L		1.43			0.595	
Beryllium	0.10U		0.10	0.40	ug/L		ND			NR	
Cadmium	0.30U		0.30	1.20	ug/L		ND			NR	
Calcium	67.7		0.10	0.40	mg/L		68.0			0.290	
Chromium	1.2U		1.2	4.8	ug/L		ND			25.5	
Cobalt	1.0U		1.0	4.0	ug/L		ND			35.4	

Matrix Spike (B24A149-MS1)

Source: K24A032-02

Prepared: 1/23/2024 Analyzed: 2/7/2024

Manganese	202		1.0	4.0	ug/L	200	6.3	97.8	90-110		
Beryllium	199		0.10	0.40	ug/L	200	ND	99.7	90-110		
Nickel	209		1.0	4.0	ug/L	200	1.1	104	90-110		
Strontium	509		0.30	1.20	ug/L	500	15.9	98.7	90-110		
Sodium	27.3		0.20	0.80	mg/L	25.0	2.57	99.1	90-110		
Molybdenum	490		2.5	10.0	ug/L	500	ND	98.0	90-110		
Potassium	24.4		0.10	0.40	mg/L	25.0	0.25	96.7	90-110		
Vanadium	486		3.0	12.0	ug/L	500	ND	97.1	90-110		
Barium	489		0.20	0.80	ug/L	500	1.59	97.5	90-110		
Cobalt	203		1.0	4.0	ug/L	200	ND	102	90-110		
Zinc	195		2.1	8.4	ug/L	200	ND	97.6	90-110		
Copper	193		1.5	6.0	ug/L	200	ND	96.5	90-110		
Iron	1130		4.2	16.8	ug/L	1000	159	97.5	90-110		
Chromium	203		1.2	4.8	ug/L	200	1.6	101	90-110		
Selenium	48.7		4.0	16.0	ug/L	50.0	ND	97.3	90-110		
Aluminum	634		5.0	20.0	ug/L	500	127	101	90-110		
Calcium	28.0		0.10	0.40	mg/L	25.0	3.96	96.2	90-110		
Arsenic	197		2.5	10.0	ug/L	200	ND	98.5	90-110		
Cadmium	49.0		0.30	1.20	ug/L	50.0	ND	97.9	90-110		
Lead	199		3.0	12.0	ug/L	200	ND	99.3	90-110		
Silver	47.4		0.60	2.40	ug/L	50.0	ND	94.8	90-110		
Magnesium	25.3		0.01	0.04	mg/L	25.0	0.56	99.1	90-110		

Matrix Spike (B24A149-MS2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Calcium	93.8		0.10	0.40	mg/L	25.0	68.0	103	90-110		
Manganese	220		1.0	4.0	ug/L	200	24.0	98.1	90-110		
Cobalt	204		1.0	4.0	ug/L	200	ND	102	90-110		
Potassium	26.0		0.20	0.80	mg/L	25.0	1.46	98.3	90-110		
Selenium	47.1		4.0	16.0	ug/L	50.0	ND	94.3	90-110		
Copper	195		1.5	6.0	ug/L	200	ND	97.6	90-110		
Magnesium	36.2		0.01	0.04	mg/L	25.0	11.1	101	90-110		
Iron	1690		4.2	16.8	ug/L	1000	678	101	90-110		
Vanadium	491		3.0	12.0	ug/L	500	6.3	96.9	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

Matrix Spike (B24A149-MS2)		Source: K24A032-03				Prepared: 1/23/2024 Analyzed: 2/7/2024					
Sodium	51.0		0.20	0.80	mg/L	25.0	26.2	99.4	90-110		
Beryllium	199		0.10	0.40	ug/L	200	ND	99.6	90-110		
Nickel	212		1.0	4.0	ug/L	200	2.4	105	90-110		
Aluminum	509		5.0	20.0	ug/L	500	12.9	99.1	90-110		
Zinc	194		2.1	8.4	ug/L	200	2.3	96.0	90-110		
Arsenic	201		2.5	10.0	ug/L	200	ND	101	90-110		
Cadmium	49.0		0.30	1.20	ug/L	50.0	ND	98.0	90-110		
Chromium	202		1.2	4.8	ug/L	200	ND	101	90-110		
Silver	47.9		0.60	2.40	ug/L	50.0	ND	95.8	90-110		
Lead	196		3.0	12.0	ug/L	200	ND	98.2	90-110		
Barium	490		0.20	0.80	ug/L	500	1.43	97.7	90-110		
Strontium	688		0.30	1.20	ug/L	500	193	99.0	90-110		
Molybdenum	503		2.5	10.0	ug/L	500	12.6	98.1	90-110		

Batch B24A209 - MERCURY

Blank (B24A209-BLK1)						Prepared & Analyzed: 1/31/2024					
Mercury	0.100 U		0.100	0.400	ug/L						

LCS (B24A209-BS1)						Prepared & Analyzed: 1/31/2024					
Mercury	1.99		0.100	0.400	ug/L	2.00		99.7	90-110		

Duplicate (B24A209-DUP1)		Source: K24A032-04				Prepared & Analyzed: 1/31/2024					
Mercury	0.100 U		0.100	0.400	ug/L		ND			62.3	

Duplicate (B24A209-DUP2)		Source: K24A032-08				Prepared & Analyzed: 1/31/2024					
Mercury	0.100 U		0.100	0.400	ug/L		ND			25.4	

Matrix Spike (B24A209-MS1)		Source: K24A032-04				Prepared & Analyzed: 1/31/2024					
Mercury	2.05		0.100	0.400	ug/L	2.00	ND	103	90-110		

Matrix Spike (B24A209-MS2)		Source: K24A032-08				Prepared & Analyzed: 1/31/2024					
Mercury	2.03		0.100	0.400	ug/L	2.00	ND	101	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A060 - DEFAULT PREP - Wet Chem

Duplicate (B24A060-DUP1) Source: K24A032-04 Prepared & Analyzed: 1/9/2024

Color	120		25	100	Color Units		120			0.00	
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Reference (B24A060-SRM1) Prepared & Analyzed: 1/9/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Reference (B24A060-SRM2) Prepared & Analyzed: 1/9/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Batch B24A066 - DEFAULT PREP - Wet Chem

Blank (B24A066-BLK1) Prepared & Analyzed: 1/10/2024

TSS	1U		1	4	mg/L						
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LCS (B24A066-BS1) Prepared & Analyzed: 1/10/2024

TSS	96				mg/L	100		96.0	77.1-110		
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Duplicate (B24A066-DUP1) Source: K24A033-02 Prepared & Analyzed: 1/10/2024

TSS	172		1	4	mg/L		166			2.51	
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Batch B24A073 - DEFAULT PREP - Wet Chem

Duplicate (B24A073-DUP1) Source: K24A032-01 Prepared & Analyzed: 1/11/2024

Color	25		5	20	Color Units		25			0.00	
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Reference (B24A073-SRM1) Prepared & Analyzed: 1/11/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Reference (B24A073-SRM2) Prepared & Analyzed: 1/11/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Batch B24A078 - DEFAULT PREP - Wet Chem

Blank (B24A078-BLK1) Prepared & Analyzed: 1/11/2024

TSS	1U		1	4	mg/L						
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A078 - DEFAULT PREP - Wet Chem (Continued)

LCS (B24A078-BS1)

Prepared & Analyzed: 1/11/2024

TSS	101				mg/L	100		101	77.1-110		
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Duplicate (B24A078-DUP1)

Source: K24A036-03

Prepared & Analyzed: 1/11/2024

TSS	1 U		1	4	mg/L		ND			20.2	
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Duplicate (B24A078-DUP2)

Source: K24A037-04

Prepared & Analyzed: 1/11/2024

TSS	1 U		1	4	mg/L		ND			141	
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Batch B24A081 - DEFAULT PREP - Wet Chem

Blank (B24A081-BLK1)

Prepared & Analyzed: 1/11/2024

Total Dissolved Solids	10 U		10	40	mg/L						
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Duplicate (B24A081-DUP1)

Source: K24A032-01

Prepared & Analyzed: 1/11/2024

Total Dissolved Solids	304		10	40	mg/L		299			1.17	
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Reference (B24A081-SRM1)

Prepared & Analyzed: 1/11/2024

Total Dissolved Solids	244				mg/L	240		102	90-110		
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Batch B24A111 - DEFAULT PREP - Wet Chem

Duplicate (B24A111-DUP1)

Source: K24A032-07

Prepared & Analyzed: 1/17/2024

Color	5 U		5	20	Color Units		ND			0.00	
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Reference (B24A111-SRM1)

Prepared & Analyzed: 1/17/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Reference (B24A111-SRM2)

Prepared & Analyzed: 1/17/2024

Color	30		5	20	Color Units	30.0		100	90-110	0.00	
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Batch B24A112 - DEFAULT PREP - Wet Chem

Blank (B24A112-BLK1)

Prepared & Analyzed: 1/17/2024

Total Dissolved Solids	10 U		10	40	mg/L						
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A112 - DEFAULT PREP - Wet Chem (Continued)

Duplicate (B24A112-DUP1)		Source: K24A053-02				Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	1040		10	40	mg/L		1030			0.613	

Duplicate (B24A112-DUP2)		Source: K24A053-06				Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	195		10	40	mg/L		197			0.722	

Reference (B24A112-SRM1)						Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	238				mg/L	240		99.2	90-110		

Batch B24A116 - DEFAULT PREP - Wet Chem

Blank (B24A116-BLK1)						Prepared & Analyzed: 1/18/2024					
TSS	1 U		1	4	mg/L						

LCS (B24A116-BS1)						Prepared & Analyzed: 1/18/2024					
TSS	93				mg/L	100		93.0	77.1-110		

Duplicate (B24A116-DUP1)		Source: K24A054-04				Prepared & Analyzed: 1/18/2024					
TSS	1 U		1	4	mg/L		ND			28.3	

Batch B24A121 - DEFAULT PREP - Wet Chem

Blank (B24A121-BLK1)						Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	10 U		10	40	mg/L						

Duplicate (B24A121-DUP1)		Source: K24A032-09				Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	290		10	40	mg/L		289			0.244	

Reference (B24A121-SRM1)						Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	244				mg/L	240		102	90-110		

Batch B24A122 - DEFAULT PREP - Wet Chem

Duplicate (B24A122-DUP1)		Source: K24A032-09				Prepared & Analyzed: 1/19/2024					
Color	90		10	40	Color Units		90			0.00	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control
Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A122 - DEFAULT PREP - Wet Chem (Continued)

Reference (B24A122-SRM1)						Prepared & Analyzed: 1/19/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Reference (B24A122-SRM2)						Prepared & Analyzed: 1/19/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Batch B24A125 - DEFAULT PREP - Wet Chem

Blank (B24A125-BLK1)						Prepared & Analyzed: 1/19/2024					
TSS	1 U		1	4	mg/L						

LCS (B24A125-BS1)						Prepared & Analyzed: 1/19/2024					
TSS	92				mg/L	100		92.0	77.1-110		

Duplicate (B24A125-DUP1)						Source: K24A032-08 Prepared & Analyzed: 1/19/2024					
TSS	1 U		1	4	mg/L		ND			12.9	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 1 of 4

Project # 1Q24 ENV

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KB		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R2T1	GW	1/8/24 @ 1448	2	X	X	X	X	X						
1Q24-R4T5	GW	1/8/24 @ 1155	2	X	X	X	X	X						
1Q24-R6T1	GW	1/8/24 @ 0951	2	X	X	X	X	X						
1Q24-Barnstead	GW	1/8/14 @ 0736	1	X										

Sample ID
-02
-04
-05
-15

Released By: *[Signature]* Date/Time: 1/9/2024 @ 0840 Received By: *[Signature]* Date/Time: 01/09/24 0840

Released By _____ Date/Time _____ Received By _____

* Note: Samples for Color/TSS/TDS were received on ice. JUD 01/09/24

CHAIN OF CUSTODY - Analytical Request Document

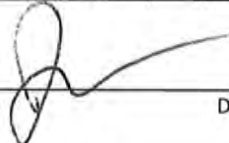

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 2 of 4
Project # 1024 ENV

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		JCD JC, KSB		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R1T6	GW	1/10/24 @ 1316	2	X	X	X	X	X						
1Q24-R3T7	GW	1/10/24 @ 1119	2	X	X	X	X	X						
1Q24-R6T4	GW	1/10/24 @ 0852	2	X	X	X	X	X						
1Q24-R9T5	GW	1/10/24 @ 1444	2	X	X	X	X	X						
1Q24-EBLK1	GW	1/10/24 @ 1512	1	X										

Sample ID
-01
-03
-06
-10
-14

Released By:  Date/Time: 1/11/24 0752 Received By:  Date/Time: 01/11/24 0805

Released By: _____ Date/Time: _____ Received By: _____

* Note: Samples for color/TSS/TDS were received on ice. JCD 01/09/24 JCD

Work Order
 # K24A032
 Page 3 of 4
 Project # 1Q24 ENV

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
 10001 NW 13th St., Gainesville, FL 32653

Preservations:
 I = Ice
 N = Nitric Acid
 S = Sulfuric Acid

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM KB		N	N	I	I	I	I	N	N	N	I	I
Sample ID	Matrix	Collection Date/Time	# of Ctns	Analysis Requested										
		JMD		Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q23-SIS-1	GW	1-11-24 / 09:23	2		X			X		X				
1Q23-SIS-2	GW	1-11-24 / 10:12	2		X			X		X				
1Q23-SIS-3	GW	1-11-24 / 11:22	2		X			X		X				
1Q23-SIS-4	GW	1-11-24 / 12:30	2		X			X		X				
1Q23-LF-1	GW	1-11-24 / 08:21	2		X			X		X				
1Q23-LF-2	GW	1-11-24 / 13:38	2		X			X		X				
1Q23-LF-3	GW	1-12-24 / 08:10	2		X			X		X				
1Q23-LF-4	GW	1-12-24 / 09:14	2		X			X		X				
1Q23-LF-5	GW	1-17-24 / 09:20	2		X			X		X				
1Q23-LF-6	GW	1-17-24 / 10:14	2		X			X		X				
1Q23-EBLANK2	GW	1-11-24 / 13:10	1		X					X				
1Q24-R6T8	GW	1-17-24 / 11:35	2	X	X	X	X	X						
1Q24-DEEP	GW	1-17-24 / 12:35	2	X	X	X	X	X						

Sample ID

-07
-13

[Signature]
 Released By

1-17-24 @ 14:19
 Date/Time

[Signature] 01/17/24 14:19
 Received By

Released By

Date/Time

Received By

* Note: Samples for Color/TSS/TDS were received on ice. JMD 01/17/24

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 4 of 4
Project #1Q24ENV

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R6T12	GW	1-18-24 / 08:17	2	X	X	X	X	X						
1Q24-R8T10	GW	1-18-24 / 10:27	2	X	X	X	X	X						
1Q24-R10T8	GW	1-18-24 / 13:21	2	X	X	X	X	X						
1Q24-R11T4	GW	1-18-24 / 12:24	2	X	X	X	X	X						

Sample ID
-08
-09
-11
-12

[Signature]

Released By _____ Date/Time 1/18/24 @ 1445

[Signature]

Received By _____ Date/Time 01/18/24 @ 1445

Released By _____ Date/Time 1/18/24 @ _____ Received By _____

* Note: Samples for color/TSS/TDS were received on ice JUD 01/19/24



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

March 18, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 1/17/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24A053-01	SIS-1	Groundwater	01/11/2024 09:23	01/17/2024 14:19
K24A053-02	SIS-2	Groundwater	01/11/2024 10:12	01/17/2024 14:19
K24A053-03	SIS-3	Groundwater	01/11/2024 11:22	01/17/2024 14:19
K24A053-04	SIS-4	Groundwater	01/11/2024 12:30	01/17/2024 14:19
K24A053-05	LF-1	Groundwater	01/11/2024 08:21	01/17/2024 14:19
K24A053-06	LF-2	Groundwater	01/11/2024 13:38	01/17/2024 14:19
K24A053-07	LF-3	Groundwater	01/12/2024 08:10	01/17/2024 14:19
K24A053-08	LF-4	Groundwater	01/12/2024 09:14	01/17/2024 14:19
K24A053-09	LF-5	Groundwater	01/17/2024 09:20	01/17/2024 14:19
K24A053-10	LF-6	Groundwater	01/17/2024 10:14	01/17/2024 14:19
K24A053-11	EBLANK2	Groundwater	01/11/2024 13:10	01/17/2024 14:19



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-1
K24A053-01 (Groundwater, Grab)
Collected: 01/11/2024 9:23 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	18.7		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	63.2		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	303		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-2

K24A053-02 (Groundwater, Grab)

Collected: 01/11/2024 10:12 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	30.8		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	210	J(M2)	0.20	0.80	mg/L	2	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	4.8	I	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	1030		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-3

K24A053-03 (Groundwater, Grab)

Collected: 01/11/2024 11:22 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	9.15		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	41.9		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	187	Q	10	40	mg/L	1	01/21/2024	01/21/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-4
K24A053-04 (Groundwater, Grab)
Collected: 01/11/2024 12:30 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	8.52		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	50.2		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	213	Q	10	40	mg/L	1	01/21/2024	01/21/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-1

K24A053-05 (Groundwater, Grab)

Collected: 01/11/2024 8:21 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	180		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	54.3		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	21.1		2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	5.6	I	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	212		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-2
K24A053-06 (Groundwater, Grab)
Collected: 01/11/2024 1:38 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	39.2		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.14	I	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	17.0		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	4.3	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	5.0		1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	197		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-3

K24A053-07 (Groundwater, Grab)

Collected: 01/12/2024 8:10 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	50.5		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	16.0		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	6.2		1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.103	I	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	368		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-4

K24A053-08 (Groundwater, Grab)

Collected: 01/12/2024 9:14 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	29.5		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	13.9		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.1	I	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	128		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-5
K24A053-09 (Groundwater, Grab)
Collected: 01/17/2024 9:20 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	32.0		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	42.8		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	5.7		1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	14.0		2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	535		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-6
K24A053-10 (Groundwater, Grab)
Collected: 01/17/2024 10:14 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	9.31		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	30.4		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	2.3	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	121		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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EBLANK2
K24A053-11 (Groundwater, Grab)
Collected: 01/11/2024 1:10 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A189 - EPA 200.7

Blank (B24A189-BLK1)

Prepared: 1/29/2024 Analyzed: 3/7/2024

Lead	3.0U		3.0	12.0	ug/L						
Calcium	0.10U		0.10	0.40	mg/L						
Arsenic	2.5U		2.5	10.0	ug/L						
Chromium	1.2U		1.2	4.8	ug/L						
Beryllium	0.10U		0.10	0.40	ug/L						
Cadmium	0.30U		0.30	1.20	ug/L						
Barium	0.20U		0.20	0.80	ug/L						
Cobalt	1.0U		1.0	4.0	ug/L						
Molybdenum	2.5U		2.5	10.0	ug/L						
Selenium	4.0U		4.0	16.0	ug/L						

LCS (B24A189-BS1)

Prepared: 1/29/2024 Analyzed: 3/7/2024

Arsenic	111 J				ug/L	100		111	90-110		
Molybdenum	103				ug/L	100		103	90-110		
Cadmium	103				ug/L	100		103	90-110		
Calcium	25.5				mg/L	25.2		101	90-110		
Lead	100				ug/L	100		100	90-110		
Selenium	98.1				ug/L	100		98.1	90-110		
Beryllium	104				ug/L	100		104	90-110		
Cobalt	102				ug/L	100		102	90-110		
Barium	100				ug/L	100		100	90-110		
Chromium	101				ug/L	100		101	90-110		

Duplicate (B24A189-DUP1)

Source: K24A053-02

Prepared: 1/29/2024 Analyzed: 3/7/2024

Barium	30.7		0.20	0.80	ug/L		30.8			0.207	
Beryllium	0.10U		0.10	0.40	ug/L		ND			NR	
Cadmium	0.30U		0.30	1.20	ug/L		ND			NR	
Calcium	200		0.20	0.80	mg/L		210			3.47	
Lead	3.0U		3.0	12.0	ug/L		ND			NR	
Chromium	1.2U		1.2	4.8	ug/L		ND			0.704	
Selenium	4.0U		4.0	16.0	ug/L		ND			42.5	
Molybdenum	4.61		2.5	10.0	ug/L		4.8			2.73	
Cobalt	1.0U		1.0	4.0	ug/L		ND			1.07	
Arsenic	2.5U		2.5	10.0	ug/L		ND			155	

Duplicate (B24A189-DUP2)

Source: K24A053-06

Prepared: 1/29/2024 Analyzed: 3/7/2024

Selenium	4.0U		4.0	16.0	ug/L		ND			5.24	
Molybdenum	2.5U		2.5	10.0	ug/L		ND			NR	
Lead	3.0U		3.0	12.0	ug/L		ND			NR	
Cobalt	5.4		1.0	4.0	ug/L		5.0			6.20	
Chromium	4.51		1.2	4.8	ug/L		4.3			4.45	
Calcium	16.9		0.10	0.40	mg/L		17.0			0.334	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A189 - EPA 200.7 (Continued)

Duplicate (B24A189-DUP2)

Source: K24A053-06

Prepared: 1/29/2024 Analyzed: 3/7/2024

Beryllium	0.14 I		0.10	0.40	ug/L		0.14			0.518	
Barium	39.2		0.20	0.80	ug/L		39.2			0.0433	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			NR	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			NR	

Matrix Spike (B24A189-MS1)

Source: K24A053-02

Prepared: 1/29/2024 Analyzed: 3/7/2024

Arsenic	204		2.5	10.0	ug/L	200	ND	102	90-110		
Calcium	222 J		0.30	1.20	mg/L	25.0	210	47.8	90-110		
Selenium	49.2		4.0	16.0	ug/L	50.0	ND	98.3	90-110		
Molybdenum	501		2.5	10.0	ug/L	500	4.8	99.2	90-110		
Lead	198		3.0	12.0	ug/L	200	ND	98.9	90-110		
Cobalt	207		1.0	4.0	ug/L	200	ND	103	90-110		
Chromium	207		1.2	4.8	ug/L	200	ND	104	90-110		
Cadmium	50.0		0.30	1.20	ug/L	50.0	ND	100	90-110		
Beryllium	195		0.10	0.40	ug/L	200	ND	97.4	90-110		
Barium	526		0.20	0.80	ug/L	500	30.8	99.1	90-110		

Matrix Spike (B24A189-MS2)

Source: K24A053-06

Prepared: 1/29/2024 Analyzed: 3/7/2024

Cobalt	217		1.0	4.0	ug/L	200	5.0	106	90-110		
Selenium	51.4		4.0	16.0	ug/L	50.0	ND	103	90-110		
Beryllium	203		0.10	0.40	ug/L	200	0.14	102	90-110		
Cadmium	50.1		0.30	1.20	ug/L	50.0	ND	100	90-110		
Arsenic	202		2.5	10.0	ug/L	200	ND	101	90-110		
Molybdenum	502		2.5	10.0	ug/L	500	ND	100	90-110		
Barium	538		0.20	0.80	ug/L	500	39.2	99.7	90-110		
Chromium	219		1.2	4.8	ug/L	200	4.3	107	90-110		
Lead	205		3.0	12.0	ug/L	200	ND	103	90-110		
Calcium	41.9		0.10	0.40	mg/L	25.0	17.0	99.6	90-110		

Batch B24B001 - MERCURY

Blank (B24B001-BLK1)

Prepared & Analyzed: 2/1/2024

Mercury	0.100 U		0.100	0.400	ug/L						
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LCS (B24B001-BS1)

Prepared & Analyzed: 2/1/2024

Mercury	1.85		0.100	0.400	ug/L	2.00		92.6	90-110		
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Duplicate (B24B001-DUP1)

Source: K24A053-04

Prepared & Analyzed: 2/1/2024

Mercury	0.100 U		0.100	0.400	ug/L		ND			17.0	
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control
Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24B001 - MERCURY (Continued)

Duplicate (B24B001-DUP2)		Source: K24A053-08				Prepared & Analyzed: 2/1/2024					
Mercury	0.100	U	0.100	0.400	ug/L		ND				44.3
Matrix Spike (B24B001-MS1)		Source: K24A053-04				Prepared & Analyzed: 2/1/2024					
Mercury	1.98		0.100	0.400	ug/L	2.00	ND	99.1	90-110		
Matrix Spike (B24B001-MS2)		Source: K24A053-08				Prepared & Analyzed: 2/1/2024					
Mercury	1.88		0.100	0.400	ug/L	2.00	ND	94.2	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A112 - DEFAULT PREP - Wet Chem

Blank (B24A112-BLK1) Prepared & Analyzed: 1/17/2024

Total Dissolved Solids	10 U		10	40	mg/L						
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Duplicate (B24A112-DUP1) Source: K24A053-02 Prepared & Analyzed: 1/17/2024

Total Dissolved Solids	1040		10	40	mg/L		1030			0.613	
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Duplicate (B24A112-DUP2) Source: K24A053-06 Prepared & Analyzed: 1/17/2024

Total Dissolved Solids	195		10	40	mg/L		197			0.722	
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Reference (B24A112-SRM1) Prepared & Analyzed: 1/17/2024

Total Dissolved Solids	238				mg/L	240		99.2	90-110		
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Batch B24A121 - DEFAULT PREP - Wet Chem

Blank (B24A121-BLK1) Prepared & Analyzed: 1/21/2024

Total Dissolved Solids	10 U		10	40	mg/L						
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Duplicate (B24A121-DUP1) Source: K24A032-09 Prepared & Analyzed: 1/21/2024

Total Dissolved Solids	290		10	40	mg/L		289			0.244	
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Reference (B24A121-SRM1) Prepared & Analyzed: 1/21/2024

Total Dissolved Solids	244				mg/L	240		102	90-110		
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
J	Estimated value. Quality control associated with the reported value failed to meet the established quality control criteria.
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank
J(L1)	Estimated value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. NOTE: Analyte was not detected in associated samples, so sample results are unaffected by potential high bias.
J(M2)	Estimated value. Matrix spike recovery was below QC limits, indicating a potential negative matrix interference. Batch accepted based on laboratory control sample (LCS) recovery.

Work Order
#K24A053
Page 1 of 1

Project # 1Q24 CCR

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM ^{KB}		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q23-SIS-1	GW	1-11-24 / 09:23	2		X			X		X				
1Q23-SIS-2	GW	1-11-24 / 10:12	2		X			X		X				
1Q23-SIS-3	GW	1-11-24 / 11:22	2		X			X		X				
1Q23-SIS-4	GW	1-11-24 / 12:30	2		X			X		X				
1Q23-LF-1	GW	1-11-24 / 08:21	2		X			X		X				
1Q23-LF-2	GW	1-11-24 / 13:38	2		X			X		X				
1Q23-LF-3	GW	1-12-24 / 08:10	2		X			X		X				
1Q23-LF-4	GW	1-12-24 / 09:14	2		X			X		X				
1Q23-LF-5	GW	1-17-24 / 09:20	2		X			X		X				
1Q23-LF-6	GW	1-17-24 / 10:14	2		X			X		X				
1Q23-EBLANK2	GW	1-11-24 / 13:10	1		X					X				
1Q24-R6T8	GW	1-17-24 / 11:35	2	X	X	X	X	X						
1Q24-DEEP	GW	1-17-24 / 12:35	2	X	X	X	X	X						

Sample ID
-01
-02
-03
-04
-05
-06
-07
-08
-09
-10
-11

JMD
JMD

Released By: *[Signature]* Date/Time: 1-17-24 @ 14:19 Received By: *[Signature]* 01/17/24 14:19

Note Samples for TDS analysis were received on ice. JMD 01/17/24



August 14, 2024

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV3Q24
Pace Project No.: 35893092

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

The container for Gross Alpha for 3Q24-R11T4 arrived at the sub lab empty and was not tested.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV3Q24

Pace Project No.: 35893092

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV3Q24

Pace Project No.: 35893092

Pace Analytical Services Ormond Beach

Utah

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35893092001	3Q24-R1T6	Water	07/09/24 12:02	07/18/24 09:30
35893092002	3Q24-R2T1	Water	07/08/24 12:30	07/18/24 09:30
35893092003	3Q24-R3T7	Water	07/09/24 09:42	07/18/24 09:30
35893092004	3Q24-R4T5	Water	07/08/24 09:51	07/18/24 09:30
35893092005	3Q24-R6T1	Water	07/08/24 08:56	07/18/24 09:30
35893092006	3Q24-R6T4	Water	07/08/24 13:33	07/18/24 09:30
35893092007	3Q24-R6T8	Water	07/15/24 09:27	07/18/24 09:30
35893092008	3Q24-R8T10	Water	07/15/24 12:49	07/18/24 09:30
35893092009	3Q24-R9T5	Water	07/09/24 09:47	07/18/24 09:30
35893092010	3Q24-R10T8	Water	07/16/24 11:00	07/18/24 09:30
35893092011	3Q24-R11T4	Water	07/16/24 09:57	07/18/24 09:30
35893092012	3Q24-DEEP	Water	07/16/24 08:35	07/18/24 09:30
35893092013	3Q24-EBLANK1	Water	07/15/24 11:12	07/18/24 09:30
35893092014	3Q24-SIS-1	Water	07/10/24 09:17	07/18/24 09:30
35893092015	3Q24-SIS-2	Water	07/10/24 12:30	07/18/24 09:30
35893092016	3Q24-SIS-3	Water	07/10/24 10:57	07/18/24 09:30
35893092017	3Q24-SIS-4	Water	07/10/24 13:29	07/18/24 09:30
35893092018	3Q24-LF-1	Water	07/10/24 08:28	07/18/24 09:30
35893092019	3Q24-LF-2	Water	07/11/24 08:36	07/18/24 09:30
35893092020	3Q24-LF-3	Water	07/11/24 09:47	07/18/24 09:30
35893092021	3Q24-LF-4	Water	07/11/24 10:50	07/18/24 09:30
35893092022	3Q24-LF-5	Water	07/11/24 11:54	07/18/24 09:30
35893092023	3Q24-LF-6	Water	07/11/24 13:17	07/18/24 09:30
35893092024	3Q24-EBLANK2	Water	07/11/24 09:18	07/18/24 09:30
35893092025	3Q24-Barnstead	Water	07/08/24 07:01	07/18/24 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092001	3Q24-R1T6	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092002	3Q24-R2T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092003	3Q24-R3T7	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092004	3Q24-R4T5	EPA 6020B	CRW, KRL	4	PASI-A
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
		SM 5310B	JH	1	PASI-O
35893092005	3Q24-R6T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092006	3Q24-R6T4	EPA 6020B	CRW, KRL	4	PASI-A
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092007	3Q24-R6T8	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092008	3Q24-R8T10	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092009	3Q24-R9T5	SM 5310B	JH	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092010	3Q24-R10T8	SM 5310B	JH	1	PASI-O
		SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092011	3Q24-R11T4	SM 5310B	JH	1	PASI-O
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092012	3Q24-DEEP	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092013	3Q24-EBLANK1	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092014	3Q24-SIS-1	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35893092015	3Q24-SIS-2	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35893092016	3Q24-SIS-3	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35893092017	3Q24-SIS-4	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092018	3Q24-LF-1	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB, EAD	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
35893092019	3Q24-LF-2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35893092020	3Q24-LF-3	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35893092021	3Q24-LF-4	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
35893092022	3Q24-LF-5	EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
35893092023	3Q24-LF-6	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB, EAD	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
35893092024	3Q24-EBLANK2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV3Q24
Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092025	3Q24-Barnstead	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 300.0	CMB	3	PASI-O

PASI-A = Pace Analytical Services - Asheville
PASI-O = Pace Analytical Services - Ormond Beach
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-1 **Lab ID: 35893092018** Collected: 07/10/24 08:28 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.22 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 17:56	7440-36-0	
Boron	85.7	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 14:53	7440-42-8	
Lithium	3.1	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 17:56	7439-93-2	
Thallium	0.036 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 17:56	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	20.3	mg/L	5.0	2.5	1		08/01/24 23:01	16887-00-6	
Fluoride	0.054	mg/L	0.050	0.015	1		08/01/24 23:01	16984-48-8	
Sulfate	10.7	mg/L	5.0	2.5	1		08/01/24 23:01	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-2 Lab ID: 35893092019 Collected: 07/11/24 08:36 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:24	7440-36-0	
Boron	39.3 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 14:57	7440-42-8	
Lithium	1.7 I	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:24	7439-93-2	
Thallium	0.030 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:24	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	42.7	mg/L	5.0	2.5	1		08/02/24 00:05	16887-00-6	
Fluoride	0.28	mg/L	0.050	0.015	1		08/02/24 00:05	16984-48-8	
Sulfate	14.5	mg/L	5.0	2.5	1		08/02/24 00:05	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-3 Lab ID: 35893092020 Collected: 07/11/24 09:47 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:32	7440-36-0	
Boron	2150	ug/L	1000	150	20	07/24/24 12:35	07/25/24 15:01	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:32	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:32	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	15.0	mg/L	5.0	2.5	1		08/02/24 00:27	16887-00-6	
Fluoride	0.037 I	mg/L	0.050	0.015	1		08/02/24 00:27	16984-48-8	
Sulfate	61.4	mg/L	5.0	2.5	1		08/02/24 00:27	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-4 Lab ID: 35893092021 Collected: 07/11/24 10:50 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:35	7440-36-0	
Boron	309	ug/L	150	22.5	3	07/24/24 12:35	07/25/24 15:04	7440-42-8	
Lithium	13.0	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:35	7439-93-2	
Thallium	0.046 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:35	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	13.5	mg/L	5.0	2.5	1		08/02/24 00:48	16887-00-6	
Fluoride	0.058	mg/L	0.050	0.015	1		08/02/24 00:48	16984-48-8	
Sulfate	36.4	mg/L	5.0	2.5	1		08/02/24 00:48	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-5 **Lab ID: 35893092022** Collected: 07/11/24 11:54 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.22 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:39	7440-36-0	
Boron	1320	ug/L	500	74.9	10	07/24/24 12:35	07/25/24 15:08	7440-42-8	
Lithium	3.0	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:39	7439-93-2	
Thallium	0.10 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:39	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	42.2	mg/L	25.0	12.5	5		08/02/24 01:10	16887-00-6	
Fluoride	0.092 I	mg/L	0.10	0.029	2		08/04/24 18:32	16984-48-8	D3
Sulfate	533	mg/L	50.0	25.0	10		08/05/24 09:34	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-6 Lab ID: 35893092023 Collected: 07/11/24 13:17 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.27 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:43	7440-36-0	
Boron	46.3 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 15:12	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:43	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:43	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	3.9 I	mg/L	5.0	2.5	1		08/02/24 01:31	16887-00-6	
Fluoride	0.049 I	mg/L	0.050	0.015	1		08/02/24 01:31	16984-48-8	
Sulfate	14.5	mg/L	5.0	2.5	1		08/02/24 01:31	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-EBLANK2 Lab ID: 35893092024 Collected: 07/11/24 09:18 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.13 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:28	7440-36-0	
Boron	11.0 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 15:16	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:28	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:28	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		08/02/24 01:53	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		08/02/24 01:53	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		08/02/24 01:53	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	870559	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

METHOD BLANK:	4486138	Matrix:	Water
Associated Lab Samples:	35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.10 U	1.0	0.10	07/24/24 17:21	
Boron	ug/L	7.5 U	50.0	7.5	07/24/24 21:24	
Lithium	ug/L	0.33 U	2.5	0.33	07/24/24 17:21	
Thallium	ug/L	0.028 U	0.20	0.028	07/24/24 17:21	

LABORATORY CONTROL SAMPLE: 4486139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	53.2	106	80-120	
Boron	ug/L	50	47.6 I	95	80-120	
Lithium	ug/L	50	50.9	102	80-120	
Thallium	ug/L	25	25.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4486140 4486141

Parameter	Units	35893092025		4486141		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	ug/L	0.12 I	50	50	52.1	51.9	104	103	75-125	0	20
Boron	ug/L	7.5 U	50	50	48.2 I	50.1	94	98	75-125		20
Lithium	ug/L	0.33 U	50	50	50.7	49.8	101	99	75-125	2	20
Thallium	ug/L	0.028 U	25	25	26.0	25.7	104	103	75-125	1	20

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 1030040

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092001, 35893092002, 35893092003

METHOD BLANK: 5660185

Matrix: Water

Associated Lab Samples: 35893092001, 35893092002, 35893092003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	07/31/24 04:18	
Sulfate	mg/L	2.5 U	5.0	2.5	07/31/24 04:18	

LABORATORY CONTROL SAMPLE: 5660186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Sulfate	mg/L	50	46.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662425 5662426

Parameter	Units	35894517001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	29.3	50	50	83.1	84.4	108	110	90-110	2	20	
Sulfate	mg/L	14.1	50	50	64.0	65.4	100	102	90-110	2	20	

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1030051	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092004, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013, 35893092014, 35893092015		

METHOD BLANK:	5660225	Matrix:	Water
Associated Lab Samples:	35893092004, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013, 35893092014, 35893092015		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	07/30/24 17:04	
Fluoride	mg/L	0.015 U	0.050	0.015	07/30/24 17:04	
Sulfate	mg/L	2.5 U	5.0	2.5	07/30/24 17:04	

LABORATORY CONTROL SAMPLE: 5660226						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662692												5662693	
Parameter	Units	35893977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	38.4	50	50	91.1	92.0	105	107	90-110	1	20		
Fluoride	mg/L	0.45	5	5	5.8	5.9	106	108	90-110	2	20		
Sulfate	mg/L	2.5 U	50	50	48.0	49.1	92	94	90-110	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662694												5662695	
Parameter	Units	35893092007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	10.4	50	50	59.2	60.0	98	99	90-110	1	20		
Fluoride	mg/L	0.42	5	5	5.6	5.7	104	106	90-110	1	20		
Sulfate	mg/L	2.5 U	50	50	47.4	48.2	91	92	90-110	2	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1030743	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

METHOD BLANK:	5663653	Matrix:	Water
Associated Lab Samples:	35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/01/24 16:56	
Fluoride	mg/L	0.015 U	0.050	0.015	08/01/24 16:56	
Sulfate	mg/L	2.5 U	5.0	2.5	08/01/24 16:56	

LABORATORY CONTROL SAMPLE: 5663654						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	5	5.1	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5665498												5665499	
Parameter	Units	35893892010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	60.5	50	50	116	117	112	113	90-110	1	20	J(M1), L	
Fluoride	mg/L	0.17	5	5	5.3	5.4	103	104	90-110	1	20		
Sulfate	mg/L	2.5 U	50	50	48.9	49.4	94	95	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5665500												5665501	
Parameter	Units	35893092018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	20.3	50	50	71.0	71.7	101	103	90-110	1	20		
Fluoride	mg/L	0.054	5	5	5.0	5.0	98	100	90-110	2	20		
Sulfate	mg/L	10.7	50	50	58.3	58.9	95	97	90-110	1	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 1031345	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092017, 35893092022

METHOD BLANK: 5667364 Matrix: Water

Associated Lab Samples: 35893092017, 35893092022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	0.015 U	0.050	0.015	08/04/24 17:07	
Sulfate	mg/L	2.5 U	5.0	2.5	08/04/24 17:07	

LABORATORY CONTROL SAMPLE: 5667365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	50	45.6	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5667681 5667682

Parameter	Units	35894132001		5667681		5667682		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Fluoride	mg/L	ND	5	5	4.9	4.9	97	97	90-110	0	20		
Sulfate	mg/L	26.4	50	50	74.8	74.7	97	97	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5667683 5667684

Parameter	Units	35894143001		5667683		5667684		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Fluoride	mg/L	0.056	5	5	5.0	5.0	98	98	90-110	0	20		
Sulfate	mg/L	7.1	50	50	53.0	52.8	92	91	90-110	0	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1029654	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010		

METHOD BLANK:	5658752	Matrix:	Water
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	07/28/24 20:38	

LABORATORY CONTROL SAMPLE: 5658753						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5658755												5658754	
Parameter	Units	35894304005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.67	2	2	2.7	2.7	101	100	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5658757												5658756	
Parameter	Units	35894469006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.17	2	2	2.2	2.1	102	96	90-110	6	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 1029980

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092011, 35893092012, 35893092013

METHOD BLANK: 5659995

Matrix: Water

Associated Lab Samples: 35893092011, 35893092012, 35893092013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	07/30/24 09:08	

LABORATORY CONTROL SAMPLE: 5659996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5659998 5659997

Parameter	Units	35893092011		5659997		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.5	1.4	73	71	90-110	3	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5660000 5659999

Parameter	Units	35893673002		5659999		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.75 U	100	100	65.3	64.7	65	64	90-110	1	20	J(M1)

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1028286	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092001, 35893092002, 35893092003, 35893092004, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013

METHOD BLANK: 5651552 Matrix: Water

Associated Lab Samples: 35893092001, 35893092002, 35893092003, 35893092004, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	07/24/24 01:29	

LABORATORY CONTROL SAMPLE & LCSD: 5651553 5651554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	20	18.8	19.4	94	97	90-110	3	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-1 Lab ID: 35893092018 Collected: 07/10/24 08:28 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.953U ± 0.620 (0.953) C:NA T:94%	pCi/L	08/07/24 14:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.28 ± 0.520 (0.854) C:83% T:88%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.04 ± 1.14 (1.81)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-2						
Lab ID: 35893092019						
Collected: 07/11/24 08:36						
Received: 07/18/24 09:30						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.31U ± 0.636 (1.31) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.804U ± 0.365 (0.804) C:75% T:91%	pCi/L	08/07/24 15:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.11U ± 1.00 (2.11)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-3 Lab ID: 35893092020 Collected: 07/11/24 09:47 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.03U ± 0.652 (1.03) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.933 ± 0.424 (0.689) C:75% T:87%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.72U ± 1.08 (1.72)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-4 **Lab ID: 35893092021** Collected: 07/11/24 10:50 Received: 07/18/24 09:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.799U ± 0.523 (0.799) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.596U ± 0.329 (0.596) C:79% T:91%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40U ± 0.852 (1.40)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-5 **Lab ID: 35893092022** Collected: 07/11/24 11:54 Received: 07/18/24 09:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	7.33 ± 1.46 (0.783) C:NA T:98%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	5.13 ± 1.14 (0.729) C:73% T:91%	pCi/L	08/07/24 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	12.5 ± 2.60 (1.51)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-6 Lab ID: 35893092023 Collected: 07/11/24 13:17 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.794U ± 0.455 (0.794) C:NA T:97%	pCi/L	08/07/24 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.642U ± 0.292 (0.642) C:81% T:91%	pCi/L	08/07/24 15:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.44U ± 0.747 (1.44)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-EBLANK2 **Lab ID: 35893092024** Collected: 07/11/24 09:18 Received: 07/18/24 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.13U ± 0.695 (1.13) C:NA T:96%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.864U ± 0.373 (0.864) C:82% T:90%	pCi/L	08/07/24 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.99U ± 1.07 (1.99)	pCi/L	08/08/24 15:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	684093	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

METHOD BLANK:	3330489	Matrix:	Water
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Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0713 ± 0.221 (0.428) C:NA T:95%	pCi/L	08/07/24 14:43	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 685616

Analysis Method: SM 7110C-2000

QC Batch Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092002, 35893092003, 35893092004, 35893092005, 35893092006, 35893092009

METHOD BLANK: 3337849

Matrix: Water

Associated Lab Samples: 35893092002, 35893092003, 35893092004, 35893092005, 35893092006, 35893092009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.257 ± 0.952 (2.37) C:NA T:NA	pCi/L	08/02/24 08:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	684094	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

METHOD BLANK:	3330492	Matrix:	Water
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Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.610 ± 0.376 (0.694) C:78% T:87%	pCi/L	08/07/24 15:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 685617

Analysis Method: SM 7110C-2000

QC Batch Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092001, 35893092007, 35893092008, 35893092010, 35893092012, 35893092013

METHOD BLANK: 3337850

Matrix: Water

Associated Lab Samples: 35893092001, 35893092007, 35893092008, 35893092010, 35893092012, 35893092013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.518 ± 0.661 (2.22) C:NA T:NA	pCi/L	08/06/24 08:23	

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QUALIFIERS

Project: ENV3Q24

Pace Project No.: 35893092

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092004	3Q24-R4T5	EPA 3010A	870559	EPA 6020B	870701
35893092006	3Q24-R6T4	EPA 3010A	870559	EPA 6020B	870701
35893092014	3Q24-SIS-1	EPA 3010A	870559	EPA 6020B	870701
35893092015	3Q24-SIS-2	EPA 3010A	870559	EPA 6020B	870701
35893092016	3Q24-SIS-3	EPA 3010A	870559	EPA 6020B	870701
35893092017	3Q24-SIS-4	EPA 3010A	870559	EPA 6020B	870701
35893092018	3Q24-LF-1	EPA 3010A	870559	EPA 6020B	870701
35893092019	3Q24-LF-2	EPA 3010A	870559	EPA 6020B	870701
35893092020	3Q24-LF-3	EPA 3010A	870559	EPA 6020B	870701
35893092021	3Q24-LF-4	EPA 3010A	870559	EPA 6020B	870701
35893092022	3Q24-LF-5	EPA 3010A	870559	EPA 6020B	870701
35893092023	3Q24-LF-6	EPA 3010A	870559	EPA 6020B	870701
35893092024	3Q24-EBLANK2	EPA 3010A	870559	EPA 6020B	870701
35893092025	3Q24-Barnstead	EPA 3010A	870559	EPA 6020B	870701
35893092001	3Q24-R1T6	SM 7110C-2000	685617		
35893092002	3Q24-R2T1	SM 7110C-2000	685616		
35893092003	3Q24-R3T7	SM 7110C-2000	685616		
35893092004	3Q24-R4T5	SM 7110C-2000	685616		
35893092005	3Q24-R6T1	SM 7110C-2000	685616		
35893092006	3Q24-R6T4	SM 7110C-2000	685616		
35893092007	3Q24-R6T8	SM 7110C-2000	685617		
35893092008	3Q24-R8T10	SM 7110C-2000	685617		
35893092009	3Q24-R9T5	SM 7110C-2000	685616		
35893092010	3Q24-R10T8	SM 7110C-2000	685617		
35893092012	3Q24-DEEP	SM 7110C-2000	685617		
35893092013	3Q24-EBLANK1	SM 7110C-2000	685617		
35893092004	3Q24-R4T5	EPA 903.1	684093		
35893092006	3Q24-R6T4	EPA 903.1	684093		
35893092014	3Q24-SIS-1	EPA 903.1	684093		
35893092015	3Q24-SIS-2	EPA 903.1	684093		
35893092016	3Q24-SIS-3	EPA 903.1	684093		
35893092017	3Q24-SIS-4	EPA 903.1	684093		
35893092018	3Q24-LF-1	EPA 903.1	684093		
35893092019	3Q24-LF-2	EPA 903.1	684093		
35893092020	3Q24-LF-3	EPA 903.1	684093		
35893092021	3Q24-LF-4	EPA 903.1	684093		
35893092022	3Q24-LF-5	EPA 903.1	684093		
35893092023	3Q24-LF-6	EPA 903.1	684093		
35893092024	3Q24-EBLANK2	EPA 903.1	684093		
35893092004	3Q24-R4T5	EPA 904.0	684094		
35893092006	3Q24-R6T4	EPA 904.0	684094		
35893092014	3Q24-SIS-1	EPA 904.0	684094		
35893092015	3Q24-SIS-2	EPA 904.0	684094		
35893092016	3Q24-SIS-3	EPA 904.0	684094		
35893092017	3Q24-SIS-4	EPA 904.0	684094		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092018	3Q24-LF-1	EPA 904.0	684094		
35893092019	3Q24-LF-2	EPA 904.0	684094		
35893092020	3Q24-LF-3	EPA 904.0	684094		
35893092021	3Q24-LF-4	EPA 904.0	684094		
35893092022	3Q24-LF-5	EPA 904.0	684094		
35893092023	3Q24-LF-6	EPA 904.0	684094		
35893092024	3Q24-EBLANK2	EPA 904.0	684094		
35893092004	3Q24-R4T5	Total Radium Calculation	688216		
35893092006	3Q24-R6T4	Total Radium Calculation	688216		
35893092014	3Q24-SIS-1	Total Radium Calculation	688216		
35893092015	3Q24-SIS-2	Total Radium Calculation	689204		
35893092016	3Q24-SIS-3	Total Radium Calculation	688216		
35893092017	3Q24-SIS-4	Total Radium Calculation	688216		
35893092018	3Q24-LF-1	Total Radium Calculation	688216		
35893092019	3Q24-LF-2	Total Radium Calculation	688216		
35893092020	3Q24-LF-3	Total Radium Calculation	688216		
35893092021	3Q24-LF-4	Total Radium Calculation	688216		
35893092022	3Q24-LF-5	Total Radium Calculation	688216		
35893092023	3Q24-LF-6	Total Radium Calculation	688216		
35893092024	3Q24-EBLANK2	Total Radium Calculation	688216		
35893092001	3Q24-R1T6	EPA 300.0	1030040		
35893092002	3Q24-R2T1	EPA 300.0	1030040		
35893092003	3Q24-R3T7	EPA 300.0	1030040		
35893092004	3Q24-R4T5	EPA 300.0	1030051		
35893092005	3Q24-R6T1	EPA 300.0	1030051		
35893092006	3Q24-R6T4	EPA 300.0	1030051		
35893092007	3Q24-R6T8	EPA 300.0	1030051		
35893092008	3Q24-R8T10	EPA 300.0	1030051		
35893092009	3Q24-R9T5	EPA 300.0	1030051		
35893092010	3Q24-R10T8	EPA 300.0	1030051		
35893092011	3Q24-R11T4	EPA 300.0	1030051		
35893092012	3Q24-DEEP	EPA 300.0	1030051		
35893092013	3Q24-EBLANK1	EPA 300.0	1030051		
35893092014	3Q24-SIS-1	EPA 300.0	1030051		
35893092015	3Q24-SIS-2	EPA 300.0	1030051		
35893092016	3Q24-SIS-3	EPA 300.0	1030743		
35893092017	3Q24-SIS-4	EPA 300.0	1030743		
35893092017	3Q24-SIS-4	EPA 300.0	1031345		
35893092018	3Q24-LF-1	EPA 300.0	1030743		
35893092019	3Q24-LF-2	EPA 300.0	1030743		
35893092020	3Q24-LF-3	EPA 300.0	1030743		
35893092021	3Q24-LF-4	EPA 300.0	1030743		
35893092022	3Q24-LF-5	EPA 300.0	1030743		
35893092022	3Q24-LF-5	EPA 300.0	1031345		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092023	3Q24-LF-6	EPA 300.0	1030743		
35893092024	3Q24-EBLANK2	EPA 300.0	1030743		
35893092025	3Q24-Barnstead	EPA 300.0	1030743		
35893092001	3Q24-R1T6	EPA 353.2	1029654		
35893092002	3Q24-R2T1	EPA 353.2	1029654		
35893092003	3Q24-R3T7	EPA 353.2	1029654		
35893092005	3Q24-R6T1	EPA 353.2	1029654		
35893092006	3Q24-R6T4	EPA 353.2	1029654		
35893092007	3Q24-R6T8	EPA 353.2	1029654		
35893092008	3Q24-R8T10	EPA 353.2	1029654		
35893092009	3Q24-R9T5	EPA 353.2	1029654		
35893092010	3Q24-R10T8	EPA 353.2	1029654		
35893092011	3Q24-R11T4	EPA 353.2	1029980		
35893092012	3Q24-DEEP	EPA 353.2	1029980		
35893092013	3Q24-EBLANK1	EPA 353.2	1029980		
35893092001	3Q24-R1T6	SM 5310B	1028286		
35893092002	3Q24-R2T1	SM 5310B	1028286		
35893092003	3Q24-R3T7	SM 5310B	1028286		
35893092004	3Q24-R4T5	SM 5310B	1028286		
35893092006	3Q24-R6T4	SM 5310B	1028286		
35893092007	3Q24-R6T8	SM 5310B	1028286		
35893092008	3Q24-R8T10	SM 5310B	1028286		
35893092009	3Q24-R9T5	SM 5310B	1028286		
35893092010	3Q24-R10T8	SM 5310B	1028286		
35893092011	3Q24-R11T4	SM 5310B	1028286		
35893092012	3Q24-DEEP	SM 5310B	1028286		
35893092013	3Q24-EBLANK1	SM 5310B	1028286		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix V

WO#: 35893092



ALL SH/ 35893092

Lab Project Manager:

Container Preservative Type: 1

ICE 2 1 1

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St.
Gainesville, FL 32653

Report To: Jeff Boudreau

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

Time Zone Collected: ET

Site/Facility ID #: 35-000113 / DEELAB

Compliance Monitoring? [] Yes [] No

DW PWS ID #: DW Location Code: Immediately Packed on Ice: [X] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
3Q24-R1T6	GW	Grab	7-09-24	12:02			3	
3Q24-R2T1	GW	Grab	7-08-24	12:30			3	
3Q24-R3T7	GW	Grab	7-09-24	09:42			3	
3Q24-R4T5	GW	Grab	7-08-24	09:51			5	
3Q24-R6T1	GW	Grab	7-08-24	08:56			3	
3Q24-R6T4	GW	Grab	7-08-24	13:33			5	
3Q24-R6T8	GW	Grab	7-15-24	09:27			3	
3Q24-R8T10	GW	Grab	7-15-24	12:49			3	
3Q24-R9T5	GW	Grab	7-09-24	09:47			3	

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A

FEDEX	UPS	Client	Courier	Pace Courier

Samples received via: Date/Time: 7/18/24 09:30
Date/Time: 7/18/24 09:30

Received by/Company: (Signature) BP Pace
Received by/Company: (Signature) RLU
Received by/Company: (Signature) RLU

Analysises	300.0 IC Anions (Cl, SO4)	353.2 Nitrogen, NO2/NO3	5310B TOC	Gross Alpha by 7110C	200.7 ICP Metals (Na, K)	300.0 IC Anions (Cl, SO4, F)	6020 Metals (Sb, Tl, B, Li)	Sum of Radium 226+228	Lab Profile/Line:
300.0 IC Anions (Cl, SO4)									Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA Y N NA

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact
- Custody Signatures Present
- Collector Signature Present
- Bottles Intact
- Correct Bottles
- Sufficient Volume
- Samples Received on Ice
- VOA - Headspace Acceptable
- USDA regulated Soils
- Samples in Holding Time
- Residual Chlorine Present
- Cl Strips:
- Sample pH Acceptable
- pH Strips:
- Sulfide Present
- Lead Acetate Strips:

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Received by/Company: (Signature) FEDEX
Date/Time: 7/17/24 13:30

Received by/Company: (Signature) BP Pace
Date/Time: 7/18/24 09:30

Received by/Company: (Signature) RLU
Date/Time: 7/18/24 09:30

Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ oC
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St. Gainesville, FL 32653

Report To: Jeff Boudreau

Copy To:

Customer Project Name/Number: ENV3Q24

Phone: 352-393-6346

Email: boudreaujp@gru.com

Collected By (print):

Collected By (signature):

Sample Disposal:

M Dispose as appropriate [] Return [] Archive: [] Hold:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information: PO#4510060812

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deenhaven Generating Station

State: FL / Gainesville County/City: Time Zone Collected: ET

Compliance Monitoring? [] Yes [] No

DW PWS ID #: DW Location Code: Immediately Packed on Ice: [x] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis: (Expedite Charges Apply)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
3Q24-R10T8	GW	Grab	7-16-24	11:00		3
3Q24-R11T4	GW	Grab	7-16-24	09:57		3
3Q24-DEEP	GW	Grab	7-16-24	08:35		3
3Q24-EBLANK1	GW	Grab	7-15-24	11:12		3
3Q24-SIS-1	GW	Grab	7-10-24	09:17		3
3Q24-SIS-2	GW	Grab	7-10-24	12:30		3
3Q24-SIS-3	GW	Grab	7-10-24	10:57		3
3Q24-SIS-4	GW	Grab	7-10-24	13:29		3
3Q24-LF-1	GW	Grab	7-10-24	08:28		3
3Q24-LF-2	GW	Grab	7-11-24	08:36		3

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Sample Temperature info: Temp Blank Received: Y N NA

Relinquished by/Company: (Signature) GRU

Date/Time: 7/17/24 1330

Relinquished by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature) FEDEX

Date/Time: 7/18/24 0930

Received by/Company: (Signature) [Signature]

Date/Time:

Received by/Company: (Signature)

Date/Time:

Container Preservative Type **

ICE 2 1 1 ICE 1 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signatures Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	Y N NA
Sample pH Acceptable	Y N NA
pH Strips:	Y N NA
Sulfide Present	Y N NA
Lead Acetate Strips:	Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Sum of Radium 226+228

6020 Metals (Sb, Ti, B, Li)

300.0 IC Anions (Cl, SO4, F)

200.7 ICP Metals (Na, K)

Gross Alpha by 710C

5310B TOC

353.2 Nitrogen, NO2/NO3

300.0 IC Anions (Cl, SO4)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)

300.0 IC Anions (Cl, SO4, F)



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJLL Log-in Number Here

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St, Gainesville, FL 32663

Report To: Jeff Boudreau

Copy To:

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

County/City: [] PT [] MT [] CT [] ET

Time Zone Collected: []

Customer Project Name/Number: ENV3Q24

Site/Facility ID #: 35-000113 / DEELAB

Phone: 352-393-6346

Email: boudreaujp@gru.com

Collected By (print):

Collected By (signature):

Turnaround Date Required: Normal

Rush: [] Same Day [] Next Day

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

(Expedite Charges Apply)

Analysis:

Compliance Monitoring: [] Yes [] No

DW PWS ID #: [] Yes [] No

DW Location Code: [] Yes [] No

Immediately Packed on Ice: [] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix *

Comp / Grab

Collected (or Composite Start) Date

Time

Composite End Date

Time

Res Cl

of Ctns

3Q24-LF-3

3Q24-LF-4

3Q24-LF-5

3Q24-LF-6

3Q24-EBLANK2

3Q24-Barnstead

300.0 IC Anions (Cl, SO4)

353.2 Nitrogen, NO2/NO3

5310B TOC

Gross Alpha by 7110C

200.7 ICP Metals (Na, K)

300.0 IC Anions (Cl, SO4, F)

6020 Metals (Sb, TI, B, Li)

Sum of Radium 226+228

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signatures Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:	Y	N	NA
Sample pH Acceptable	Y	N	NA
pH Strips:	Y	N	NA
Sulfide Present	Y	N	NA
Lead Acetate Strips:	Y	N	NA

LAB USE ONLY:
Lab Sample # / Comments:

Container Preservative Type **

ICE 2 2 1 1 ICE 1 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other.

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: Lab Sample Temperature Info: Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ oC
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:

Samples received via: FEDEX UPS Client Courier Pace Courier
Date/Time: _____
Table #: _____
Actnum: _____
Template: _____
Prelogin: _____
PM: _____
PB: _____

Relinquished by/Company: (Signature) *GAU* Date/Time: 7/17/24 1330 Received by/Company: (Signature) *FEDEX*
Relinquished by/Company: (Signature) Date/Time: _____ Received by/Company: (Signature) *JPB*
Relinquished by/Company: (Signature) Date/Time: _____ Received by/Company: (Signature) *JPB*

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WO#: 35893092 (R)

Project #
Project Manager:
Client:

PM: JSB **Due Date: 08/05/24**
CLIENT: DEELAB

Date and Initials of person:
Examining contents: NPI
Verifying pH: NPI

Thermometer Used: T-427 Date: 7/18/24 Time: 1607 Initials: RUP

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 30.2 (Visual) 0.0 (Correction Factor) 30.2 (Actual)
 Cooler #2 Temp. °C 29.2 (Visual) _____ (Correction Factor) 29.2 (Actual)
 Cooler #3 Temp. °C 28.3 (Visual) _____ (Correction Factor) 28.3 (Actual)
 Cooler #4 Temp. °C 29.6 (Visual) _____ (Correction Factor) 29.6 (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Exceptions: Vials, Microbiology, O&G, PFAS									
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <tr> <th colspan="2">Preservation Information</th> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments):

all remaining samples showed up on carrier route

Labeled by: AES

Reviewed by: NPI

Delivered by: NPI



Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: NOI

Verifying pH: NOI

Thermometer Used: T-426

Date: 7-18-24

Time: 0955

Initials: BIP

State of Origin: _____
 For WV projects, all containers verified to ≤6 °C

- Cooler #1 Temp. °C 4.0 (Visual) 0.0 (Correction Factor) 4.0 (Actual)
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
- Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

- Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
 - Samples on ice, cooling process has begun.
- Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2771 8019 5633

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
All containers needing acid / base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Headspace in Volatile Vials? (>6mm): <small>Exceptions: Vials, Microbiology, O&G, PFAS</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments): See attached Paper for missing samples

Labeled by: _____

Reviewed by: _____

Delivered by: _____



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

August 28, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 7/11/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24G035-01	SIS-1	Groundwater	07/10/2024 09:17	07/11/2024 14:29
K24G035-02	SIS-2	Groundwater	07/10/2024 12:30	07/11/2024 14:29
K24G035-03	SIS-3	Groundwater	07/10/2024 10:57	07/11/2024 14:29
K24G035-04	SIS-4	Groundwater	07/10/2024 13:29	07/11/2024 14:29
K24G035-05	LF-1	Groundwater	07/10/2024 08:28	07/11/2024 14:29
K24G035-06	LF-2	Groundwater	07/11/2024 08:36	07/11/2024 14:29
K24G035-07	LF-3	Groundwater	07/11/2024 09:47	07/11/2024 14:29
K24G035-08	LF-4	Groundwater	07/11/2024 10:50	07/11/2024 14:29
K24G035-09	LF-5	Groundwater	07/11/2024 11:54	07/11/2024 14:29
K24G035-10	LF-6	Groundwater	07/11/2024 13:17	07/11/2024 14:29
K24G035-11	EBLANK2	Groundwater	07/11/2024 09:18	07/11/2024 14:29



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-1

K24G035-05 (Groundwater, Grab)

Collected: 07/10/2024 8:28 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	56.6		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.3		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.3	I	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	100		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-2
K24G035-06 (Groundwater, Grab)
Collected: 07/11/2024 8:36 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	37.6		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.16	I	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	15.6		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	4.4	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	5.3		1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	225		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-3

K24G035-07 (Groundwater, Grab)

Collected: 07/11/2024 9:47 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	49.7		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.3		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	8.0		1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	367		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-4
K24G035-08 (Groundwater, Grab)
Collected: 07/11/2024 10:50 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.7	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	24.8		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.1		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	114		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-5
K24G035-09 (Groundwater, Grab)
Collected: 07/11/2024 11:54 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	63.1		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	43.5		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	2.1	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	11.2		1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	4.8	I	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	4.2	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.105	I	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	1020		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-6
K24G035-10 (Groundwater, Grab)
Collected: 07/11/2024 1:17 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	12.2		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	30.5		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	3.1	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.6	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	140		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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EBLANK2
K24G035-11 (Groundwater, Grab)
Collected: 07/11/2024 9:18 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G142 - EPA 200.7

Blank (B24G142-BLK1)

Prepared: 7/23/2024 Analyzed: 7/25/2024

Calcium	0.10 U		0.10	0.40	mg/L						
Cobalt	1.0 U		1.0	4.0	ug/L						
Molybdenum	2.5 U		2.5	10.0	ug/L						
Chromium	1.2 U		1.2	4.8	ug/L						
Lead	3.0 U		3.0	12.0	ug/L						
Selenium	4.0 U		4.0	16.0	ug/L						
Beryllium	0.10 U		0.10	0.40	ug/L						
Cadmium	0.30 U		0.30	1.20	ug/L						
Barium	0.20 U		0.20	0.80	ug/L						
Arsenic	2.5 U		2.5	10.0	ug/L						

LCS (B24G142-BS1)

Prepared: 7/23/2024 Analyzed: 7/25/2024

Beryllium	101			ug/L	100			101	90-110		
Barium	102			ug/L	100			102	90-110		
Calcium	25.0			mg/L	25.2			99.2	90-110		
Chromium	102			ug/L	100			102	90-110		
Arsenic	107			ug/L	100			107	90-110		
Cobalt	105			ug/L	100			105	90-110		
Cadmium	100			ug/L	100			100	90-110		
Selenium	97.1			ug/L	100			97.1	90-110		
Lead	102			ug/L	100			102	90-110		
Molybdenum	106			ug/L	100			106	90-110		

Duplicate (B24G142-DUP1)

Source: K24G035-01

Prepared: 7/23/2024 Analyzed: 7/25/2024

Selenium	4.0 U		4.0	16.0	ug/L		ND			60.5	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			14.2	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			0.00	
Barium	28.3		0.20	0.80	ug/L		28.2			0.100	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			NR	
Calcium	63.1		0.10	0.40	mg/L		64.0			0.939	
Chromium	1.7 I		1.2	4.8	ug/L		1.8			2.99	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	
Molybdenum	2.5 U		2.5	10.0	ug/L		ND			5.44	
Cobalt	1.0 U		1.0	4.0	ug/L		ND			3.22	

Duplicate (B24G142-DUP2)

Source: K24G035-05

Prepared: 7/23/2024 Analyzed: 7/25/2024

Selenium	4.0 U		4.0	16.0	ug/L		ND			32.1	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			9.49	
Molybdenum	2.5 U		2.5	10.0	ug/L		ND			0.743	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	
Cobalt	1.3 I		1.0	4.0	ug/L		1.3			1.91	
Chromium	1.2 U		1.2	4.8	ug/L		ND			4.18	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G142 - EPA 200.7 (Continued)

Duplicate (B24G142-DUP2)		Source: K24G035-05				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Calcium	12.4		0.10	0.40	mg/L		12.3			0.103	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			NR	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			9.43	
Barium	57.0		0.20	0.80	ug/L		56.6			0.451	

Matrix Spike (B24G142-MS1)		Source: K24G035-01				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Beryllium	207		0.10	0.40	ug/L	200	ND	104	90-110		
Calcium	88.4		0.10	0.40	mg/L	25.0	64.0	97.7	90-110		
Barium	556		0.20	0.80	ug/L	500	28.2	106	90-110		
Cobalt	214		1.0	4.0	ug/L	200	ND	107	90-110		
Lead	203		3.0	12.0	ug/L	200	ND	101	90-110		
Selenium	48.6		4.0	16.0	ug/L	50.0	ND	97.2	90-110		
Cadmium	49.5		0.30	1.20	ug/L	50.0	ND	99.0	90-110		
Arsenic	210		2.5	10.0	ug/L	200	ND	105	90-110		
Chromium	212		1.2	4.8	ug/L	200	1.8	105	90-110		
Molybdenum	515		2.5	10.0	ug/L	500	ND	103	90-110		

Matrix Spike (B24G142-MS2)		Source: K24G035-05				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Cobalt	212		1.0	4.0	ug/L	200	1.3	105	90-110		
Lead	201		3.0	12.0	ug/L	200	ND	101	90-110		
Chromium	208		1.2	4.8	ug/L	200	ND	104	90-110		
Barium	571		0.20	0.80	ug/L	500	56.6	103	90-110		
Molybdenum	502		2.5	10.0	ug/L	500	ND	100	90-110		
Cadmium	49.2		0.30	1.20	ug/L	50.0	ND	98.4	90-110		
Selenium	49.0		4.0	16.0	ug/L	50.0	ND	98.0	90-110		
Beryllium	200		0.10	0.40	ug/L	200	ND	100	90-110		
Arsenic	204		2.5	10.0	ug/L	200	ND	102	90-110		
Calcium	36.7		0.10	0.40	mg/L	25.0	12.3	97.5	90-110		

Batch B24G154 - MERCURY

Blank (B24G154-BLK1)		Prepared & Analyzed: 7/24/2024									
Mercury	0.100 U		0.100	0.400	ug/L						

LCS (B24G154-BS1)		Prepared & Analyzed: 7/24/2024									
Mercury	2.08		0.100	0.400	ug/L	2.00		104	90-110		

Duplicate (B24G154-DUP1)		Source: K24G035-01				Prepared & Analyzed: 7/24/2024					
Mercury	0.108 I		0.100	0.400	ug/L		ND			25.5	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control
Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G154 - MERCURY (Continued)

Duplicate (B24G154-DUP2)		Source: K24G035-05					Prepared & Analyzed: 7/24/2024					
Mercury	0.100	U	0.100	0.400	ug/L		ND				43.6	
Matrix Spike (B24G154-MS1)		Source: K24G035-01					Prepared & Analyzed: 7/24/2024					
Mercury	2.09		0.100	0.400	ug/L	2.00	ND	105	90-110			
Matrix Spike (B24G154-MS2)		Source: K24G035-05					Prepared & Analyzed: 7/24/2024					
Mercury	1.93		0.100	0.400	ug/L	2.00	ND	96.6	90-110			



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G096 - DEFAULT PREP - Wet Chem

Blank (B24G096-BLK1) Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24G096-DUP1) Source: K24G035-02 Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 544 10 40 mg/L 539 0.653

Reference (B24G096-SRM1) Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 241 mg/L 240 100 90-110

Batch B24G116 - DEFAULT PREP - Wet Chem

Blank (B24G116-BLK1) Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24G116-DUP1) Source: K24G024-12 Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 126 10 40 mg/L 125 0.563

Reference (B24G116-SRM1) Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 238 mg/L 240 99.2 90-110



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

Work Order #
K24035
Page 1 of 1
Project # 3024 CCR

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Matrix:
GW = Groundwater
W = Water

Batch:		ENV3Q24		Container Preservation Type											
Sample Collector(s):		Analysis Requested													
Sample ID	Matrix	Collection Date/Time	# of Ctns	N	N	I	I	N	N	N	N	I	I	N	
				Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, MB, Mn, Mo, Ni, Se, Ag, Sr, V, Zn, K, Na)											
				Mercury by 245.1											
				Color by 2120B											
				TSS by 2540D											
				TDS by 2540C											
				Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (As, Ba, Cd, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (As, Ba, Be, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (Mn, Mo, Ni, Na, Zn)											
				Chloride by 4500-Cl-C											
				Sulfate by 4500-SO4-E											
				Arsenic by 200.7											
3Q24-SIS-1	GW	7/10/24 @ 09:17	2		X			X	X						
3Q24-SIS-2	GW	7/10/24 @ 12:30	2		X			X	X						
3Q24-SIS-3	GW	7/10/24 @ 10:57	2		X			X	X						
3Q24-SIS-4	GW	7/10/24 @ 12:30	2		X			X	X						
3Q24-LF-1	GW	7/10/24 @ 08:28	2		X			X	X						
3Q24-LF-2	GW	7/11/24 @ 08:36	2		X			X	X						
3Q24-LF-3	GW	7/11/24 @ 09:47	2		X			X	X						
3Q24-LF-4	GW	7/11/24 @ 10:50	2		X			X	X						
3Q24-LF-5	GW	7/11/24 @ 11:54	2		X			X	X						
3Q24-LF-6	GW	7/11/24 @ 13:17	2		X			X	X						
3Q24-EBLANK2	GW	7/11/24 @ 09:18	1		X			X	X						

Sample ID
-01
-02
-03
-04
-05
-06
-07
-08
-09
-10
-11

Released By: *[Signature]* Date/Time: 07/11/24 1429
Received By: *[Signature]* Date/Time: 07/11/24 1429

Released By: _____ Date/Time: _____
Received By: _____ Date/Time: _____

* Samples for TDS analysis were received on ice. JUD 07/11/24

Note - Time written on bottle was 12:30 for SIS-2 and 10:57 for SIS-3, which did not match COC. Emailed Deerhaven on 07/11/24 about discrepancy. JUD 07/11/24

Per email from Kent on 07/12/24, time on bottles was correct and there was a typo on the COC. Correct time for SIS-2 was 1230 and correct time for SIS-3 was 1057. COC was corrected to match times on bottles. JUD 07/15/24

Attachment B
Groundwater Sampling Field and
Calibration Logs

DGS Groundwater Sampling Log



WELL ID: R4T5	Location:	Latitude: 29°45'52.14"	Longitude: -82°23'33.18"	MSL @ TOC: 187.46	Date In Service: 7-93
Quarter: <u>1Q24</u>	Date: <u>1-8-24</u>	Well Type: <u>I</u>			

Purging Data

Diameter(In) <u>2</u>	Total well depth(ft) <u>15.08</u>	Depth to water(ft) <u>10.21</u>	Well capacity(L/ft) <u>0.6</u>
Distance from TOC to top of screen <u>5.08</u> ft.	Purging Method: <u>PP</u>	Equipment Volume = <u>760 mL</u>	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: <u>11:30</u>	
Well Vol = (15.08 - 10.21) X 0.6 = 2.922 L 1/4 well vol. = <u>0.7305</u>			
Init Tubing Dpth(ft): <u>10.71</u>	Final Tube Dept(ft): <u>11.33</u>	Purge Start Time: <u>11:32</u>	Purge Stop Time: <u>11:53</u>
			Total Volume Purged <u>4.5 L</u>

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
<u>11:44</u>	<u>3.0</u>	<u>3.0</u>	<u>180</u>	<u>10.83</u>	<u>6.18</u>	<u>22.10</u>	<u>766.0</u>	<u>0.53</u>	<u>1.09</u>	<u>9.7</u>	<u>Yellow</u>
<u>11:48</u>	<u>0.75</u>	<u>3.75</u>	<u>180</u>	<u>10.83</u>	<u>6.18</u>	<u>22.07</u>	<u>762.6</u>	<u>0.47</u>	<u>0.80</u>	<u>5.2</u>	<u>Clear</u>
<u>11:52</u>	<u>0.75</u>	<u>4.5</u>	<u>180</u>	<u>10.83</u>	<u>6.18</u>	<u>22.10</u>	<u>759.4</u>	<u>0.46</u>	<u>0.69</u>	<u>0.7</u>	<u>Sulfur Odor</u>

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>JCDavis</u>				Sampler(s) Signatures: <u>[Signature]</u>			
Sampling Method: <u>PP</u>	Tube Material: <u>PP/S</u>	Sampling Started Tube Dpth(ft): <u>11.33</u> Time: <u>11:55</u>		Sampling completed Tube Dpth(ft): <u>11.33</u> Time: <u>12:40</u>			
Field Decon: <u>NO</u>	Field Filtered: <u>NO</u>	Duplicate: <u>YES</u> <input checked="" type="radio"/> <u>NO</u>	Acid ID# <u>HNO3: D50073</u>	<u>H2SO4: D50032</u>			
Sample Container Specification			Sample Preservation				
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
<u>1Q24-R4T5-A</u>	<u>PE</u>	<u>4000/500</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Kanapaha: Physical</u>	
<u>1Q24-R4T5-K</u>	<u>PE</u>	<u>250</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Pace: Anions</u>	
<u>1Q24-R4T5-C</u>	<u>PE</u>	<u>250</u>	<u>H2SO4/Chill</u>	<u>0.5 mL</u>	<u>1.0</u>	<u>Pace: NO2/NO3 and TOC</u>	
<u>1Q24-R4T5-D</u>	<u>PE</u>	<u>1000</u>	<u>HNO3</u>	<u>2 mL</u>	<u>1.3</u>	<u>Pace: Gross Alpha</u>	
<u>1Q24-R4T5-E</u>	<u>PE</u>	<u>250(500)</u>	<u>HNO3</u>	<u>0.5(1.0 mL)</u>	<u>1.3</u>	<u>Kanapaha: Metals</u>	
<u>1Q24-R4T5-M</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>0.5 mL</u>	<u>1.3</u>	<u>Pace: Metals (preserved in field)</u>	
<u>1Q24-R4T5-N</u>	<u>PE</u>	<u>2000</u>	<u>HNO3</u>	<u>4 mL</u>	<u>1.6</u>	<u>Pace: Radium 226+228</u>	
Tubing Depth is <u>0.5</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: <u>54F</u> Winds: <u>E 8 mph</u> Cloud Cover: <u>Cloudy</u> Precip: <u>Drizzling</u>							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: R6T4	Location:	Latitude: 29°46'00.90"	Longitude: -82°23'40.20"	MSL @ TOC: 183.6	Date In Service: 7-83
Quarter: <u>1Q24</u>	Date: <u>1-10-24</u>	Well Type: <u>1</u>			

Purging Data

Diameter(In) <u>2</u>	Total well depth(ft) <u>14.13</u>	Depth to water(ft) <u>1.99</u>	Well capacity(L/ft) <u>0.6</u>
Distance from TOC to top of screen <u>4.13</u> ft.		Purging Method: <u>PP</u>	Equipment Volume = <u>750 mL</u>
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: <u>0810</u>
Well Vol = (14.13 - 1.99) X 0.6 = <u>7.284</u> L			1/4 well vol. = <u>1.821</u>
Init Tubing Dpth(ft): <u>2.49</u>	Final Tube Dept(ft): <u>3.24</u>	Purge Start Time: <u>0812</u>	Purge Stop time: <u>0850</u> Total Volume Purged <u>12.0</u> L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
<u>0837</u>	<u>7.3</u>	<u>7.3</u>	<u>460</u>	<u>2.74</u>	<u>6.50</u>	<u>18.44</u>	<u>365.1</u>	<u>0.29</u>	<u>0.54</u>	<u>304.2</u>	<u>Clear</u>
<u>0841</u>	<u>1.9</u>	<u>9.2</u>	<u>460</u>	<u>2.74</u>	<u>6.46</u>	<u>18.72</u>	<u>350.3</u>	<u>0.28</u>	<u>0.58</u>	<u>249.9</u>	<u>Colorless</u>
<u>0845</u>	<u>1.9</u>	<u>11.1</u>	<u>460</u>	<u>2.74</u>	<u>6.37</u>	<u>18.85</u>	<u>337.1</u>	<u>0.25</u>	<u>0.65</u>	<u>164.3</u>	<u>Colorless</u>
<u>0848</u>	<u>1.9</u>	<u>13.0</u>	<u>460</u>	<u>2.74</u>	<u>6.29</u>	<u>18.85</u>	<u>334.2</u>	<u>0.25</u>	<u>0.58</u>	<u>107.4</u>	

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>JC Davis</u>				Sampler(s) Signatures: <u>[Signature]</u>			
Sampling Method: <u>PP</u>	Tube Material: <u>PP/S</u>	Sampling Started Tube Dpth(ft): <u>3.24</u> Time: <u>0852</u>		Sampling completed Tube Dpth(ft): <u>3.24</u> Time: <u>0909</u>			
Field Decon: <u>NO</u>	Field Filtered: <u>NO</u>	Duplicate: <u>YES (NO)</u>	Acid ID# HNO3: <u>DS0073</u>	H2SO4: <u>DS0032</u>			

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
<u>1Q24-R6T4-A</u>	<u>PE</u>	<u>4000/500</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Kanapaha: Physical</u>
<u>1Q24-R6T4-K</u>	<u>PE</u>	<u>250</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Pace: Anions</u>
<u>1Q24-R6T4-C</u>	<u>PE</u>	<u>250</u>	<u>H2SO4/Chill</u>	<u>0.5 mL</u>	<u>1.3</u>	<u>Pace: NO2/NO3 and TOC</u>
<u>1Q24-R6T4-D</u>	<u>PE</u>	<u>1000</u>	<u>HNO3</u>	<u>2 mL</u>	<u>1.3</u>	<u>Pace: Gross Alpha</u>
<u>1Q24-R6T4-E</u>	<u>PE</u>	<u>250/500</u>	<u>HNO3</u>	<u>0.5/1.0 mL</u>	<u>1.3</u>	<u>Kanapaha: Metals</u>
<u>1Q24-R6T4-M</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>0.5 mL</u>	<u>1.3</u>	<u>Pace: Metals</u>
<u>1Q24-R6T4-N</u>	<u>PE</u>	<u>2000</u>	<u>HNO3</u>	<u>4 mL</u>	<u>1.3</u>	<u>Pace: Radium 226+228</u>

Tubing Depth is 0.5 ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: 44 F Winds: W 7 mph Cloud Cover: Clear Precip: 0
 Remarks:

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **EBLANK 1**

Quarter: **1Q24**

Date: **1/10/24**

Purging Data

Purging Method: **PP** Equipment Volume = **750 mL**

Well Collected At: **R9TS**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **1510**

Purge Stop time: **N/A**

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): **K. Batefield, JCDwin**

Sampler(s) Signatures: *K. Batefield, JCDwin*

Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 1512	Sampling completed Time: 1514			
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0073 H2SO4: DS0032			
Sample Container Specification		Sample Preservation			Intended Analysis or method	
ID:	Material	Vol mL	Preservative	Vol Adde		final pH
1Q24-EBLANK1-B	PE	250	Chill <6 C	n/a	n/a	Pace Anions
1Q24-EBLANK1-C	PE	250	H2SO4+Chill	0.5 mL	1.3	Pace NO2/NO3 and TOC
1Q24-EBLANK1-D	PE	1000	HNO3	2 mL	1.3	Pace Gross Alpha
1Q24-EBLANK1-E	PE	250 (500)	HNO3	0.5 (1 mL)	1.3	Kanapaha Metals
N/A	PE	250	HNO3	0.5 mL		Pace Metals
N/A	PE	2000	HNO3	4 mL		Pace Radium 226+228

N/A Well found locked on arrival **N/A** Well left locked on departure
 Temperature: **59° F** Winds: **W @ 14 mph** Cloud Cover: **partly cloudy** Precip: **0**
 Remarks: **Depth probe was dipped into EBLANK container after decon, before collecting sample in bottles.**

DGS Groundwater Sampling Log



WELL ID: **SIS-1** Location: Latitude: Longitude: MSL @ TOC Date In Service
 29°46'00.1308" -82°23'33.3204" 185.11 2017

Quarter: **1Q24** Date: **1/11/24** Well Type: **U**

Purging Data

Diameter(in)	2	Total well depth(ft)	13.92	Depth to water(ft)	3.77	Well capacity(L/ft)	0.6				
Distance from TOC to top of screen	3.92	ft.		Purging Method:	PP	Equipment Volume =	760 mL				
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity						Time of Depth Meter Decon: 0855					
Well Vol = (13.92 - 3.77) X 0.6 = 6.1 L						1/4 well vol. = 1.6 L					
Init Tubing Dpth(ft):	2.9	Final Tube Dept(ft):	4.83	Purge Start Time:	0857	Purge Stop time:	0921				
						Total Volume Purged 6.9 L					
Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0915	6.1	6.1	380	4.33	6.62	13.81	475.2	0.64	3.00	248.3	clear no color no odor
0918	1.4	5.5	380	4.33	6.60	13.80	477.7	0.59	2.77	237.3	
0921	1.4	6.9	380	4.33	6.59	13.91	479.8	0.58	2.00	226.7	

Decon Depth Mtr - rinse with analyte free water
 §Purge method FDEP-SOP 2212.3.1

◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): **R. Brakefield, J. Davis** Sampler(s) Signatures: *R. Brakefield, J. Davis*

Sampling Method: PP Tube Material: PP/S Sampling Started Tube Dpth(ft): **9.0** Time: **0923** Sampling completed Tube Dpth(ft): **9.0** Time: **0933**

Field Decon: NO Field Filtered: NO Duplicate: YES NO Acid ID# HNO3: **DS0073** H2SO4: **N/A**

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q24-SIS-1-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q24-SIS-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha
1Q24-SIS-1-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q24-SIS-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)
1Q24-SIS-1-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **46°F** Winds: **No wind** Cloud Cover: **overcast** Precip:

Remarks:

DGS Groundwater Sampling Log



WELL ID: SIS-2	Location: _____	Latitude: 29°45'53.4672"	Longitude: -82°23'31.5096"	MSL @ TOC: 183.3	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 14.22	Depth to water(ft) 4.67	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.22 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0946
Well Vol = (14.22 - 4.67) X 0.6 = 5.8 L			1/4 well vol. = 1.5 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0948	Purge Stop time: 1010
			Total Volume Purged 8.2 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1004	5.8	5.8	360	5.19	7.21	15.35	1576	5.35	4.56	261.5	Clear No color No odor <div style="text-align: right; margin-top: 10px;"> >20% DO ↓ </div>
1007	1.2	7.0	360	5.19	7.21	15.32	1600	5.18	4.62	262.3	
1010	1.2	8.2	360	5.19	7.21	15.32	1617	5.22	3.99	262.7	

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield</u> <u>JCD</u>				Sampler(s) Signatures: <u>K. Brakefield</u> <u>JCD</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1012		Sampling completed Tube Dpth(ft): 9.0 Time: 1022			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: DS0073	H2SO4: N/A			
Sample Container Specification			Sample Preservation				
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
1Q24-SIS-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a		Kanapaha: Physical
1Q24-SIS-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5m	 	Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL	 	Pace: Gross Alpha	
1Q24-SIS-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-SIS-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (<i>preserved in field</i>)	
1Q24-SIS-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 51°F Winds: No wind Cloud Cover: partly cloudy Precip: Ø Remarks:							

DGS Groundwater Sampling Log



WELL ID: SIS-3	Location: 29°45'51.8472" -82°23'35.5632"	Latitude: 29°45'51.8472"	Longitude: -82°23'35.5632"	MSL @ TOC Date In Service: 183.11 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 13.38	Depth to water(ft) 2.66	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 3.38 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 1036
Well Vol = (13.38 - 2.66) X 0.6 = 6.5 L			1/4 well vol. = 1.6 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1038	Purge Stop time: 1119
			Total Volume Purged 7.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1113	6.5	6.5	160	3.49	6.88	14.16	239.9	2.13	3.34	231.2	clear No color No odor
1116	0.5	7.0	160	3.49	6.88	14.18	242.7	2.11	3.71	224.1	
1119	0.5	7.5	160	3.51	6.88	14.25	246.3	2.10	4.61	215.6	

>20% DO
↓

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Blakefield, JCD				Sampler(s) Signatures: <i>[Signature]</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 1122	Sampling Completed Tube Dpth(ft): 9.0	Time: 1149		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: DS0073	H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-SIS-3-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-SIS-3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-SIS-3-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-SIS-3-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-SIS-3-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 58°F Winds: ESE @ 1mph Cloud Cover: cloudy Precip: 0 Remarks:							

DGS Groundwater Sampling Log



WELL ID: SIS-4	Location:	Latitude: 29°45'54.144"	Longitude: -82°23'38.4108"	MSL @ TOC	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 13.7	Depth to water(ft) 3.75	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 3.7	ft.	Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1158	
Well Vol = (13.7 - 3.75) X 0.6 = 6.0 L		1/4 well vol. = 1.5 L	
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1200	Purge Stop time: 1228
			Total Volume Purged 7.6 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1221	6.0	6.0	260	4.77	6.83	15.76	334.7	0.75	1.43	210.3	Clear w/ particulates Yellowish color Slight sulfur odor
1224	0.8	6.8	260	4.77	6.83	15.79	332.2	0.69	1.21	206.7	
1228	0.8	7.6	260	4.77	6.82	15.80	327.1	0.61	2.10	201.2	

* FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield, J. Decker</u>				Sampler(s) Signatures: <u>K. Brakefield, J. Decker</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1230		Sampling completed Tube Dpth(ft): 9.0 Time: 1245			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: DS0073 H2SO4: N/A				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-SIS-4-F	PE	4000 <input checked="" type="radio"/> 500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-SIS-4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-SIS-4-G	PE	250 <input checked="" type="radio"/> 500	HNO3	0.5 <input checked="" type="radio"/> 1.0 mL	1.3	Kanapaha: Metals	
1Q24-SIS-4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-SIS-4-N	PE	2000	HNO3	4 mL	1.0	Pace: Radium 226+228	
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>62°C</u> Winds: <u>E @ 5 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>0</u> Remarks:							

DGS Groundwater Sampling Log



WELL ID: LF-1	Location: 29°45'59.0544" -82°23'51.8244"	Latitude: 29°45'59.0544"	Longitude: -82°23'51.8244"	MSL @ TOC: 185.76	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: U			

Purging Data

Diameter(In): 2	Total well depth(ft): 14.88	Depth to water(ft): 4.84	Well capacity(L/ft): 0.6
Distance from TOC to top of screen: 4.88 ft.	Purging Method: PP		Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 0748	
Well Vol = (14.88 - 4.84) X 0.6 = 6.1 L		1/4 well vol. = 1.6 L	
Int Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0751	Purge Stop time: 0819
			Total Volume Purged (2.5 L): 12.5

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0805	0.1	0.1	440	5.07	6.72	17.82	433.2	5.40	4.65	348.6	DO > 20% ↓ clear with particulates No color No odor
0809	1.6	1.7	440	5.07	6.70	17.88	422.1	5.58	3.97	345.1	
0812	1.6	3.3	440	5.07	6.66	18.02	413.2	5.06	1.97	340.9	
0815	1.6	4.9	440	5.07	6.63	18.12	407.2	4.78	1.98	337.0	
0819	1.6	6.5	440	5.07	6.59	18.16	397.8	4.54	4.69	328.3	

▲ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mir - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Bakerfield, J. Davis				Sampler(s) Signatures: <i>K. Bakerfield, J. Davis</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 0821	Sampling completed Tube Dpth(ft): 9.0	Time: 0830		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0073	H2SO4: N/A			
Sample Container Specification		Sample Preservation				Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-LF-1-F	PE	4000/500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-LF-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-LF-1-G	PE	250/500	HNO3	0.5/1.0 mL	1.3	Kanapaha: Metals	
1Q24-LF-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-LF-1-N	PE	2000	HNO3	4 mL	1.3	Pace: Radlum 226+228	

Tubing Depth is **N/A** It below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **45°F** Winds: **E @ 2 mph** Cloud Cover: **overcast** Precip: **0**
 Remarks:

DGS Groundwater Sampling Log



WELL ID: LF-2	Location:	Latitude: 29°45'50.46"	Longitude: -82°23'47.40"	MSL @ TOC: 182.33	Date In Service: 2019
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 15.36	Depth to water(ft) 3.54	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 5.36 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 1319
Well Vol = (15.36 - 3.54) X 0.6 = 7.1 L			1/4 well vol. = 1.8 L
Ini/Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1321	Purge Stop time: 1336
Total Volume Purged 2.7 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1330	1.5	1.5	200	3.78	5.24	16.23	257.9	0.72	12.4	119.3	clear w/ particulates. No color Sulfur odor
1333	0.6	2.1	200	3.78	5.22	16.26	260.1	0.69	10.6	108.3	
1336	0.6	2.7	200	3.78	5.21	16.31	260.3	0.65	10.1	101.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): R. Bracketfield, JCDunn				Sampler(s) Signatures: <i>R. Bracketfield, JCDunn</i>			
Sampling Method: PP	Tube Material: PP/S	Tube Dpth(ft): 9.0	Sampling Started Time: 1338	Tube Dpth(ft): 9.0	Sampling completed Time: 1357		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50073	H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-LF-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-LF-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL	 	Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL	 	Pace: Gross Alpha	
1Q24-LF-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-LF-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals <i>(preserved in field)</i>	
1Q24-LF-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 63°F Winds: W @ 5 mph Cloud Cover: cloudy Precip: 0 Remarks:							

DGS Groundwater Sampling Log



WELL ID: **LF-3** Location: Latitude: **29°45'50.38"** Longitude: **-82°23'52.30"** MSL @ TOC: **183.7** Date In Service: **2019**

Quarter: **1Q24** Date: **1/12/24** Well Type: **D**

Purging Data

Diameter(in)	2	Total well depth(ft)	16.29	Depth to water(ft)	4.00	Well capacity(L/ft)	0.6		
Distance from TOC to top of screen	6.29	ft.		Purging Method:	PP	Equipment Volume =	760 mL		
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon:				0751	
Well Vol = (16.29 - 4.00) X 0.6 = 7.4 L				1/4 well vol. =				1.85 L	
Init Tubing Dpth(ft):	9.0	Final Tube Dept(ft):	9.0	Purge Start Time:	0755	Purge Stop time:	0807	Total Volume Purged:	3.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0801	1.5	1.5	300	4.30	5.96	15.47	542.1	1.10	1.94	-22.3	clear No color Sulfur smell
0804	0.9	2.4	300	4.30	5.93	15.52	527.3	0.80	2.45	-44.7	
0807	0.9	3.3	300	4.30	5.92	15.57	522.2	0.66	1.91	-55.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): **K. Brackett, J. Davis** Sampler(s) Signatures: **K. Brackett, J. Davis**

Sampling Method:	PP	Tube Material:	PP/S	Sampling Started Tube Dpth(ft):	9.0	Time:	0810	Sampling completed Tube Dpth(ft):	9.0	Time:	0820
Field Decon:	NO	Field Filtered:	NO	Duplicate:	YES	<input checked="" type="radio"/> NO	Acid ID#	HNO3: DS0073	H2SO4:	N/A	
Sample Container Specification			Sample Preservation			Intended Analysis or method					
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH						
1Q24-LF-3-F	PE	400(1500)	Chill <6 C	n/a	n/a	Kanapaha: Physical					
1Q24-LF-3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions					
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC					
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha					
1Q24-LF-3-G	PE	250(500)	HNO3	0.5(1.0 mL)	1.3	Kanapaha: Metals					
1Q24-LF-3-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals					
1Q24-LF-3-N	PE	2000	HNO3	4 mL	1.0	Pace: Radium 226+228					

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **59°F** Winds: **ESE @ 9 mph** Cloud Cover: **overcast** Precip: **0**
 Remarks:

DGS Groundwater Sampling Log



WELL ID: LF-4	Location:	Latitude: 29°45'50.43"	Longitude: -82°23'58.46"	MSL @ TOC: 184.83	Date In Service: 2019
Quarter: 1Q24	Date: 1/12/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 16.06	Depth to water(ft) 3.84	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.06 ft.	Purging Method: PP		Equipment Volume = 760 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0846
Well Vol = (16.06 - 3.84) X 0.6 = 7.4 L			1/4 well vol. = 1.85 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0849	Purge Stop time: 0911
Total Volume Purged: 7.0 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0904	5.0	5.0	320	4.25	5.13	15.01	223.7	1.07	10.9	128.4	clear No color Sulfur odor
0907	1.0	6.0	320	4.25	5.14	15.02	224.1	1.09	12.6	120.5	
0911	1.0	7.0	320	4.25	5.14	15.05	222.3	1.03	7.01	117.2	

• FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Bakefield, J. Durin				Sampler(s) Signatures: <i>K. Bakefield J. Durin</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0914		Sampling completed Tube Dpth(ft): 9.0 Time: 0924			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: D50073	H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-LF-4-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-LF-4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL	1.3	Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL	1.3	Pace: Gross Alpha	
1Q24-LF-4-G	PE	250 (500)	HNO3	0.5 (1.0) mL	1.3	Kanapaha: Metals	
1Q24-LF-4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-LF-4-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 61°F Winds: SE @ 10 mph Cloud Cover: overcast Precip: rain Remarks: Extended initial purge until turbidity dropped below 20%. Rain began during sample collection. Well and equipment were covered.							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-5	Location:	Latitude: 29°45'53.70"	Longitude: -82°23'59.83"	MSL @ TOC: 184.33	Date In Service: 2020
Quarter: 1Q24	Date: 1/17/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 4.15	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0830
Well Vol = (14.52 - 4.15) X 0.6 = 6.25 L			1/4 well vol. = 1.61 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start time: 0832	Purge Stop time: 0917
			Total Volume Purged 12.9 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0850	6.3	6.3	400	5.56	5.95	16.02	509.6	0.73	18.0	144.2	clear colorless odorless
0853	1.2	7.5	400	5.56	5.88	16.03	540.8	0.76	13.4	161.4	
0911	3.0	10.5	400	5.56	5.67	16.20	745.3	0.80	4.71	106.2	
0914	1.2	11.7	400	5.56	5.65	16.26	761.3	0.86	4.98	104.0	
0917	1.2	12.9	400	5.56	5.63	16.26	775.6	0.88	4.04	102.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield, JCDavis				Sampler(s) Signatures: <i>[Signatures]</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 0920	Sampling completed Tube Dpth(ft): 9.0	Time: 0929		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/>	Acid ID# HNO3: DS0073	H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-LF-5-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-LF-5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-LF-5-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-LF-5-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-LF-5-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **34° F** Winds: **NNW @ 7 mph** Cloud Cover: **overcast** Precip: **0"**
 Remarks: **Extended the purge between parameters until conductivity stabilizes**

DGS Groundwater Sampling Log



WELL ID: LF-6	Location:	Latitude: 29°45'56.71"	Longitude: -82°23'59.75"	MSL @ TOC	Date In Service: 2020
Quarter: <u>1Q24</u>	Date: <u>1/17/24</u>	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 14.52	Depth to water(ft) 4.13	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: <u>0944</u>	
Well Vol = (14.52 - 4.13) X 0.6 = 6.25 L		1/4 well vol. = 1.6 L	
Init Tubing Dpth(ft): 9.0	Final Tube Dep(ft): 9.0	Purge Start Time: <u>0946</u>	Purge Stop time: <u>1011</u>
			Total Volume Purged 8.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU) ±0.2§	Temp (°C) ±0.2§	Cond (µmho) ±5%§	Diss O2 (mg/L) 20% sat§	Turbidity (ntu) 20 max§	ORP (mv)	Observed odor or color
1005	6.3	6.3	360	4.65	6.50	15.90	170.5	1.85	16.8	159.9	clear no color
1008	1.0	7.3	360	4.65	6.48	16.01	170.4	1.70	14.8	169.0	
1011	1.0	8.3	360	4.65	6.49	16.01	171.1	1.69	14.0	167.5	

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

♣ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): <u>JC Davis, K. Brakefield</u>				Sampler(s) Signatures: <u>[Signatures]</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u> Time: <u>1014</u>		Sampling completed Tube Dpth(ft): <u>9.0</u> Time: <u>1024</u>			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: <u>DS0073</u>		H2SO4: <u>N/A</u>		
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
<u>1Q24-LF-6-F</u>	PE	4000 <u>(500)</u>	Chill <6 C	n/a	n/a	Kanapaha: Physical	
<u>1Q24-LF-6-K</u>	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
<u>N/A</u>	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
<u>N/A</u>	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
<u>1Q24-LF-6-G</u>	PE	250 <u>(500)</u>	HNO3	0.5 <u>(1.0 mL)</u>	<u>1.3</u>	Kanapaha: Metals	
<u>1Q24-LF-6-L</u>	PE	250	HNO3	0.5 mL	<u>1.3</u>	Pace: Metals <u>(preserved in field)</u>	
<u>1Q24-LF-6-N</u>	PE	2000	HNO3	4 mL	<u>1.3</u>	Pace: Radium 226+228	
Tubing Depth is <u>N/A</u> below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>38°F</u> Winds: <u>NE @ 6 mph</u> Cloud Cover: <u>overcast</u> Precip: <u>Ø</u> Remarks:							

DGS Groundwater Sampling Log



WELL ID: **EBLANK 2**

Quarter: 1Q24

Date: 1/11/24

Purging Data

Purging Method: PP Equipment Volume = 760 mL

Well Collected At: **LF-2**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **1308**

Purge Stop time: **N/A**

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
\$Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>R. Brackett, J. Davis</i>			Sampler(s) Signatures: <i>R. Brackett, J. Davis</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 1310	Sampling completed Time: 1313			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: DS0073 H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	
1Q24-EBLANK2-K	PE	250	Chill <6 C	n/a	n/a	Pace Anions
N/A	PE	250	H2SO4+Chill	0.5 mL		Pace NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace Gross Alpha
1Q24-EBLANK2-G	PE	250 / 500	HNO3	0.5 / 1 mL	1.3	Kanapaha Metals
1Q24-EBLANK2-L	PE	250	HNO3	0.5 mL	1.3	Pace Metals <i>(preserved in field)</i>
1Q24-EBLANK2-N	PE	2000	HNO3	4 mL	1.0	Pace Radium 226+228

N/A Well found locked on arrival N/A Well left locked on departure
 Temperature: **63°F** Winds: **W @ 5mph** Cloud Cover: **cloudy** Precip: **Ø**
 Remarks:

Instrument Calibration Log

Model 2100QIS01

Serial Number 23020D000369

Manufacturer: Hach

Date Purchased 08-2023

Parameter: Turbidity

GRU Prop Tag# none

QTR: 1Q24 : used Manufactures SOP for calibrations and _____ SOP for verifications

	Standard Concentration, ID#, Expiration Date	Unit
Standard A	<u>6.60 , Gelex Std</u>	<u>NTU</u>
Standard B	<u>59.6 , Gelex Std.</u>	<u>NTU</u>
Standard C	<u>578 , Gelex Std.</u>	<u>NTU</u>
QC	<u>20 , DS0062 , exp. 03/25</u>	<u>NTU</u>
QC	<u>20.1 , DS0061 , exp. 04/24</u>	<u>NTU</u>

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
1/5/24	1341	A	6.60	6.63	P	No	cont	KSB
1/5/24	1342	B	59.6	60.7	P	No	cont	KSB
1/5/24	1343	C	578	585	P	No	cont	KSB
1/5/24	1343	QC	20	20.9	P	No	cont	KSB
1/8/24	0701	QC	20.1	0.09	P	No	cont	KSB
1/9/24	0747	A	6.60	6.59	P	No	cont	KSB
1/10/24	1509	A	6.60	6.58	P	No	cont	JCD
1/11/24	1420	A	6.60	6.56	P	No	cont	KSB
1/12/24	0946	A	6.60	6.51	P	No	cont	KSB
1/12/24	0948	B	59.6	60.7	P	No	cont	KSB
1/18/24	0715	A	6.60	6.62	P	No	cont	KSB
1/18/24	0716	B	59.6	60.6	P	No	cont	KSB
1/18/24	1406	A	6.60	6.59	P	No	cont	KSB
1/18/24	1407	B	59.6	60.7	P	No	cont	KSB

Primary Standards

- 10 NTU, ID# _____, EXP. _____
- 20 NTU, ID# _____, EXP. _____
- 100 NTU, ID# _____, EXP. _____
- 800 NTU, ID# _____, EXP. _____

Acceptance Criteria

- 0.1 to 10.0 NTU = +/- 10%
- 11 to 40 NTU = +/- 8%
- 41 to 100 NTU = +/- 6.5%
- >100 NTU = +/- 5%

DGS Groundwater Sampling Log



WELL ID: LF-1	Location:	Latitude: 29°45'59.0544"	Longitude: -82°23'51.8244"	MSL @ TOC	Date In Service
Quarter: 3Q24	Date: 7/10/24	185.76	2017	Well Type: U	

Purging Data

Diameter(in) 2	Total well depth(ft) 14.88	Depth to water(ft) 6.37	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.88 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 8:01
Well Vol = (14.88 - 6.37) X 0.6 = 5.11 L			1/4 well vol. = 1.3
Init Tubing Dpth(ft): 9'	Final Tube Dept(ft): 9'	Purge Start Time: 8:17	Purge Stop time: 8:27
			Total Volume Purged 7.20 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
8:20	5.20	5.20	300	6.49	5.35	26.39	178.7	0.19	0.60	52.2	clear
8:23	1.0	6.20	300	6.49	5.35	26.38	177.9	0.18	0.76	44.3	Colorless
8:26	1.0	7.20 <small>km 7/10/24</small>	300	6.49	5.35	26.38	171.6	0.17	0.72	40.7	No odor

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): K. Morrison, K. Brakefield				Sampler(s) Signatures: K Morrison, K Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9'	Time: 8:28	Sampling completed Tube Dpth(ft): 9'	Time: 8:38		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: DS0073	H2SO4: DS0032	TV		
Sample Container Specification		Sample Preservation		Intended Analysis or method			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
3Q24-LF1 F	PE	400 (500)	Chill <6 C	n/a	n/a		
3Q24-LF1 K	PE	250	Chill <6 C	n/a	n/a		
N/A	PE	250	H2SO4/Chill	0.5 mL	—		
N/A	PE	1000	HNO3	2 mL	←		
3Q24-LF1 G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3		
3Q24-LF1 J	PE	250	HNO3	0.5 mL	1.3		
3Q24-LF1 M	PE	2000	HNO3	4 mL	1.3		
Tubing Depth is 9' ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: 80°F Winds: 11mph SW Cloud Cover: Partly Cloudy Precip: N/A							
Remarks:							

DGS Groundwater Sampling Log



WELL ID: LF-2	Location:	Latitude: 29°45'50.46"	Longitude: -82°23'47.40"	MSL @ TOC 182.33	Date In Service 2019
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 15.36	Depth to water(ft) 4.59	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 5.36 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0752
Well Vol = (15.36 - 4.59) X 0.6 = 6.46 L			1/4 well vol. = 1.62 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0755	Purge Stop time: 0834
			Total Volume Purged 8.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0825	6.5	6.5	220	4.92	5.17	27.92	235.4	0.13	1.38	55.9	clear No color slight sulfur odor
0829	1.0	7.5	220	4.92	5.16	27.85	236.9	0.12	1.30	53.1	
0834	1.0	8.5	220	4.95	5.16	27.85	238.8	0.11	1.54	51.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>K. Bracketfield</i>				Sampler(s) Signatures: <i>K Bracketfield</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0836		Sampling completed Tube Dpth(ft): 9.0 Time: 0852			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: D50077	H2SO4: N/A			
Sample Container Specification			Sample Preservation		D50073		
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
3Q24-LF-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
3Q24-LF-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
3Q24-LF-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is ^{N/A} ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: 80°F Winds: WNW @ 4 mph Cloud Cover: partly cloudy Precip: 0							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-3	Location:	Latitude: 29°45'50.38"	Longitude: -82°23'52.30"	MSL @ TOC	Date In Service
Quarter: <u>3Q24</u>	Date: <u>7/11/24</u>			183.7	2019
			Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 16.29	Depth to water(ft) 6.60	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.29 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: <u>0903</u>
Well Vol = (16.29 - 6.60) X 0.6 = 5.91 L			1/4 well vol. = 1.45L

Init Tubing Dpth(ft): <u>9.0</u>	Final Tube Depth(ft): <u>9.0</u>	Purge Start Time: <u>0907</u>	Purge Stop time: <u>0944</u>	Total Volume Purged 7.9 L
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Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
<u>0935</u>	<u>5.9</u>	<u>5.9</u>	<u>210</u>	<u>6.77</u>	<u>5.85</u>	<u>27.65</u>	<u>419.2</u>	<u>0.17</u>	<u>4.02</u>	<u>-86.6</u>	<i>some particulates yellowish color strong sulfur odor</i>
<u>0940</u>	<u>1.0</u>	<u>6.9</u>	<u>210</u>	<u>6.77</u>	<u>5.85</u>	<u>27.72</u>	<u>420.9</u>	<u>0.15</u>	<u>3.95</u>	<u>-93.1</u>	
<u>0944</u>	<u>1.0</u>	<u>7.9</u>	<u>210</u>	<u>6.77</u>	<u>5.86</u>	<u>27.69</u>	<u>421.9</u>	<u>0.12</u>	<u>3.68</u>	<u>-102.4</u>	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield</u>	Sampler(s) Signatures: <u>K. Brakefield</u>
---	---

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u> Time: <u>0947</u>	Sampling completed Tube Dpth(ft): <u>9.0</u> Time: <u>1002</u>
----------------------------	----------------------------	--	--

Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: <u>DS0077</u> H2SO4: <u>N/A</u>
------------------------	---------------------------	--	--

Sample Container Specification	Sample Preservation	<u>DS0073</u>
--------------------------------	---------------------	---------------

Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
<u>3Q24-LF-3-F</u>	PE	<u>4000</u> <u>(500)</u>	Chill <6 C	n/a	n/a	Kanapaha: Physical
<u>3Q24-LF-3-K</u>	PE	<u>250</u>	Chill <6 C	n/a	n/a	Pace: Anions
<u>N/A</u>	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
<u>N/A</u>	PE	1000	HNO3	2 mL		Pace: Gross Alpha
<u>3Q24-LF-3-G</u>	PE	<u>250</u> <u>(500)</u>	HNO3	<u>0.5</u> <u>(1.0 mL)</u>	<u>1.3</u>	Kanapaha: Metals
<u>3Q24-LF-3-L</u>	PE	<u>250</u>	HNO3	<u>0.5 mL</u>	<u>1.3</u>	Pace: Metals (preserved in field)
<u>3Q24-LF-3-N</u>	PE	<u>2000</u>	HNO3	<u>4 mL</u>	<u>1.3</u>	Pace: Radium 226+228

Tubing Depth is <u>N/A</u> ft below depth to water for every instance.	<input checked="" type="checkbox"/> Well found locked on arrival	<input checked="" type="checkbox"/> Well left locked on departure
Temperature: <u>82°F</u> Winds: <u>NW @ 5 mph</u> Cloud Cover: <u>cloudy</u>	Precip: <u>0</u>	
Remarks: <u>EBLANK 2 collected at this location.</u>		

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-4	Location:	Latitude: 29°45'50.43"	Longitude: -82°23'58.46"	MSL @ TOC 184.83	Date In Service 2019
Quarter: <u>3Q24</u>	Date: <u>7/11/24</u>	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 16.06	Depth to water(ft) 7.05	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.06 ft.		Purging Method: PP Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: <u>1012</u>
Well Vol = (16.06 - 7.05) X 0.6 = 5.41 L			1/4 well vol. = 1.35 L
Init Tubing Dpth(ft): <u>9.0</u>	Final Tube Dept(ft): <u>9.0</u>	Purge Start Time: <u>1015</u>	Purge Stop time: _____
Total Volume Purged _____ L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1040	5.5	5.5	250	7.30	5.10	28.54	181.9	0.29	3.13	49.1	Clear slight orange color slight sulfur odor
1044	1.0	6.5	250	7.30	5.11	28.56	181.7	0.26	2.48	45.7	
1048	1.0	7.5	250	7.30	5.11	28.57	181.3	0.23	0.96	43.7	

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

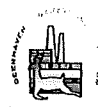
◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): <u>K. Brakefield</u>				Sampler(s) Signatures: <u>K. Brakefield</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u> Time: <u>1050</u>		Sampling completed Tube Dpth(ft): <u>9.0</u> Time: <u>1104</u>			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID#	HNO3: <u>DS0077</u>	H2SO4: <u>N/A</u>		
Sample Container Specification		Sample Preservation		<u>DS0073</u>			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
<u>3Q24-LF-4-F</u>	<u>PE</u>	<u>4000</u> (<u>500</u>)	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>		
<u>3Q24-LF-4-K</u>	<u>PE</u>	<u>250</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>		
<u>N/A</u>	<u>PE</u>	<u>250</u>	<u>H2SO4/Chill</u>	<u>0.5 mL</u>	<u>n/a</u>		
<u>N/A</u>	<u>PE</u>	<u>1000</u>	<u>HNO3</u>	<u>2 mL</u>	<u>n/a</u>		
<u>3Q24-LF-4-G</u>	<u>PE</u>	<u>250</u> (<u>500</u>)	<u>HNO3</u>	<u>0.5</u> (<u>1.0 mL</u>)	<u>1.3</u>		
<u>3Q24-LF-4-L</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>0.5 mL</u>	<u>1.3</u>		
<u>3Q24-LF-4-N</u>	<u>PE</u>	<u>2000</u>	<u>HNO3</u>	<u>4 mL</u>	<u>1.3</u>		
Intended Analysis or method <u>Kanapaha: Physical</u> <u>Pace: Anions</u> <u>Pace: NO2/NO3 and TOC</u> <u>Pace: Gross Alpha</u> <u>Kanapaha: Metals</u> <u>Pace: Metals (preserved in field)</u> <u>Pace: Radium 226+228</u>							
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>88°F</u> Winds: <u>NW @ 6 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>Ø</u> Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-5	Location:	Latitude: 29°45'53.70"	Longitude: -82°23'59.83"	MSL @ TOC 184.33	Date In Service 2020
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 7.45	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 1120
Well Vol = (14.52 - 7.45) X 0.6 = 4.24 L			1/4 well vol. = 1.1 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1123	Purge Stop time: 1151
			Total Volume Purged 6.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1143	4.5	4.5	250	7.83	5.39	27.56	1218	0.16	10.7	49.6	clear yellowish color slight sulfur odor
1147	1.0	5.5	250	7.85	5.37	27.56	1228	0.15	10.0	47.6	
1151	1.0	6.5	250	7.85	5.36	27.59	1240	0.16	6.92	45.2	

♣ FDEP SOP Section 2212.3

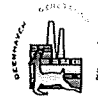
Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield</u>				Sampler(s) Signatures: <u>K. Brakefield</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 1154	Sampling completed Tube Dpth(ft): 9.0	Time: 1208		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: D50077	H2SO4: N/A			
Sample Container Specification			Sample Preservation		D50073		
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
3Q24-LF-5-F	PE	4000 <input checked="" type="radio"/> 500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF-5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
NA	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
3Q24-LF-5-G	PE	250 <input checked="" type="radio"/> 500	HNO3	0.5 <input checked="" type="radio"/> 1.0 mL	1.3	Kanapaha: Metals	
3Q24-LF-5-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF-5-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: <u>91.0 F</u> Winds: <u>NW @ 6 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>0</u>							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-6	Location:	Latitude: 29°45'56.71"	Longitude: -82°23'59.75"	MSL @ TOC: 184.59	Date In Service: 2020
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 7.36	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1239	
Well Vol = (14.52 - 7.36) X 0.6 = 4.3 L 1/4 well vol. = 1.1 L			
Init Tubing Dpth(ft): 9.0	Final Tube Depl(ft): 9.0	Purge Start Time: 1242	Purge Stop time: 1315
			Total Volume Purged 6.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1305	4.3	4.3	220	7.68	6.28	27.41	175.1	0.55	3.61	28.7	clear no color slight sulfur odor
1310	1.0	5.3	220	7.68	6.28	27.48	175.1	0.51	1.49	34.2	
1315	1.0	6.3	220	7.68	6.28	27.38	175.5	0.52	3.54	37.2	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield				Sampler(s) Signatures: K. Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1317		Sampling completed Tube Dpth(ft): 9.0 Time: 1333			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO <input type="radio"/>	Acid ID# HNO3: D50077 H2SO4: N/A				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
3Q24-LF-6-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF-6-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
3Q24-LF-6-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
3Q24-LF-6-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF-6-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: 92°F Winds: NW @ 5mph Cloud Cover: cloudy Precip: 0							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **EBLANK2**

Quarter: **3Q24**

Date: **7/11/24**

Purging Data

Purging Method: PP Equipment Volume = 750 mL

Well Collected At: **LF-3**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **0903**

Purge Stop time: **N/A**

Sampling Data

FDEP SOP Section 2212.3

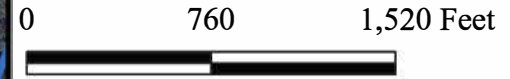
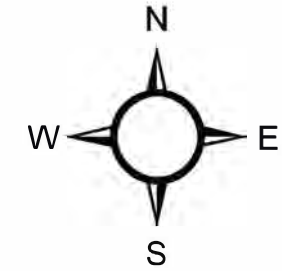
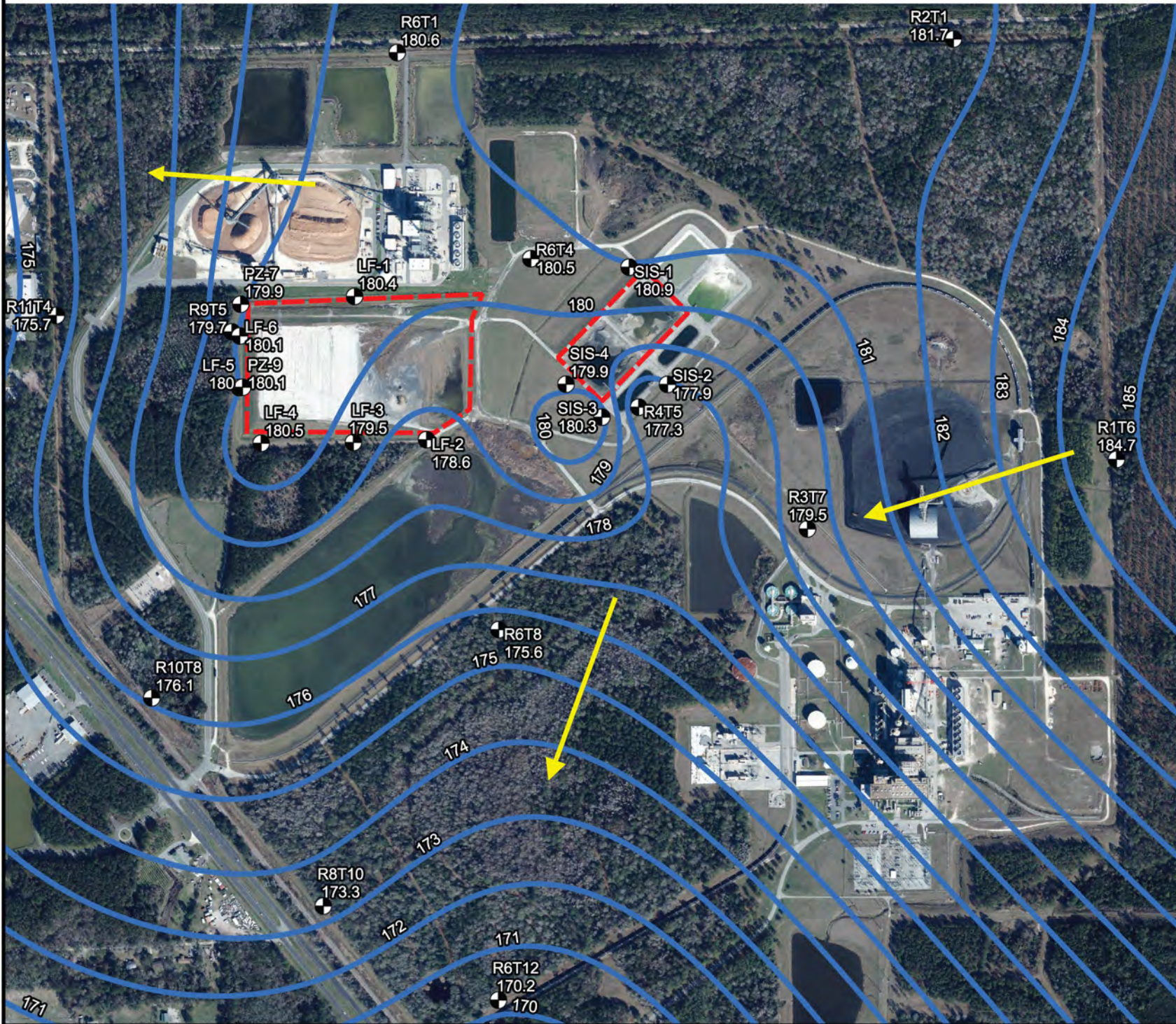
Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield			Sampler(s) Signatures: K. Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 0918		Sampling completed Time: 0921		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0077	H2SO4: N/A		
Sample Container Specification		Sample Preservation			Intended Analysis or method DS0073	
ID:	Material	Vol mL	Preservative	Vol Adde		final pH
3Q24-EBLANK2-K	PE	250	Chill <6 C	n/a	n/a	Pace Anions
3Q24-N/A	PE	250	H2SO4+Chill	0.5 mL		Pace NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace Gross Alpha
3Q24-EBLANK2-G	PE	250 (500)	HNO3	0.5 (1 mL)	1.3	Kanapaha Metals
3Q24-EBLANK2-L	PE	250	HNO3	0.5 mL	1.3	Pace Metals (preserved in field)
3Q24-EBLANK2-N	PE	2000	HNO3	4 mL	1.3	Pace Radium 226+228

Well found locked on arrival **N/A** Well left locked on departure
 Temperature: **82°F** Winds: **NW @ 5 mph** Cloud Cover: **cloudy** Precip: **0**
 Remarks: **Depth probe was dipped into EB2 container after decon, and before collecting samples.**

Attachment C
Potentiometric Contours and Site-Wide
Groundwater Flow Direction, January
2024 and July 2024

CCR Units January 2024 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

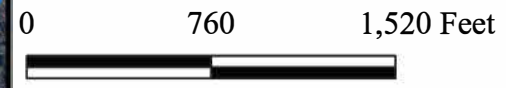
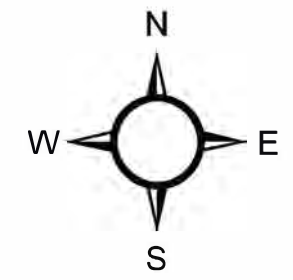
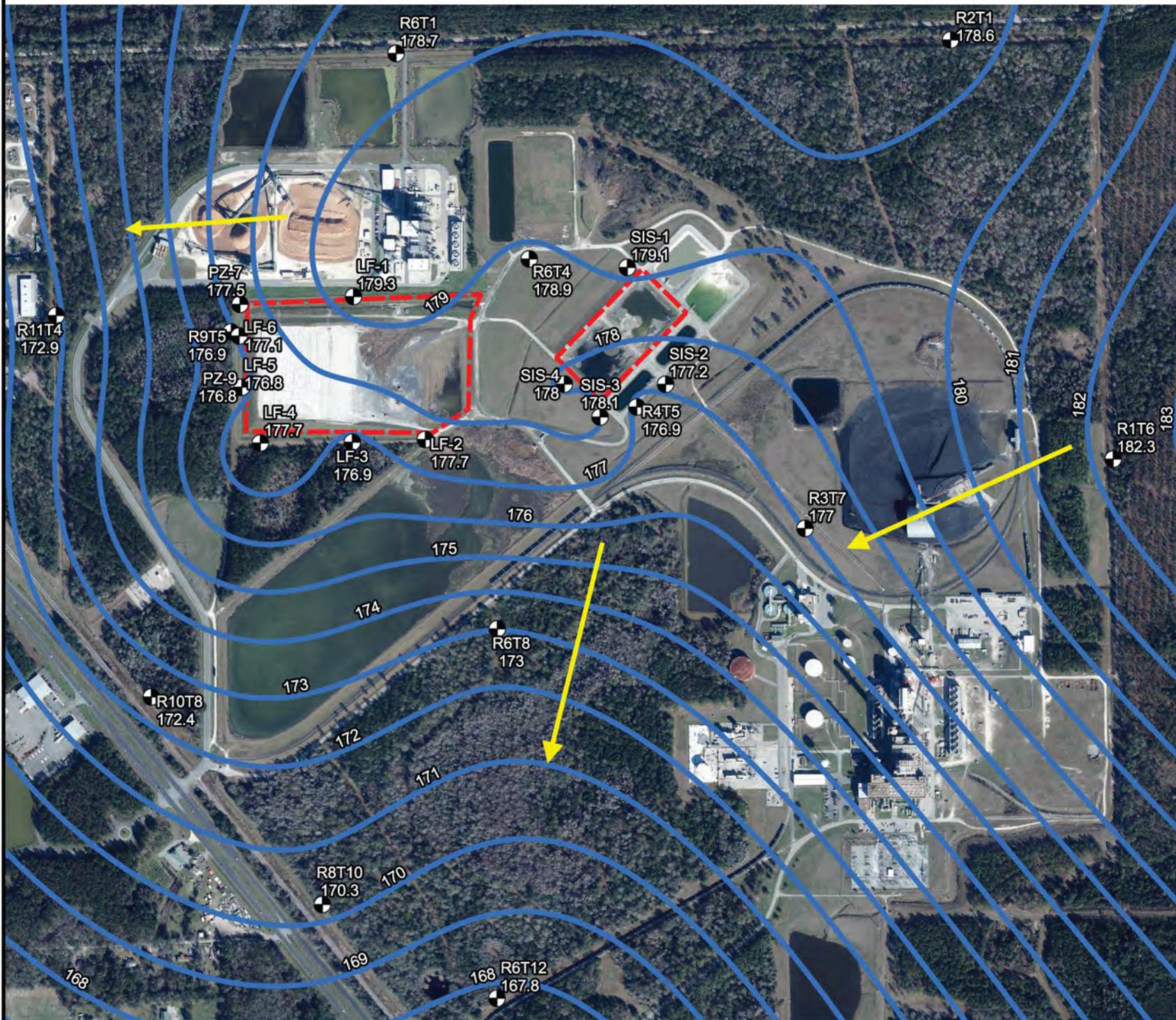
Approximate Groundwater Flow Direction January 8 to 17, 2024

NOTES:

1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIALAQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: AD

CCR Units July 2024 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction July 10 to 11, 2024

- NOTES:**
1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIALAQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
 2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
 3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
 4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: AD

Attachment A
Sampling Laboratory Analysis Reports



February 08, 2024

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV1Q24
Pace Project No.: 35855470

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: ENV1Q24

Pace Project No.: 35855470

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 2950
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA010
 Louisiana DEQ/TNI Certification #: 04086
 Maine Certification #: 2023021
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572023-03
 New Hampshire/TNI Certification #: 297622
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-015
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: TN02867
 Texas/TNI Certification #: T104704188-22-18
 Utah/TNI Certification #: PA014572223-14
 USDA Soil Permit #: 525-23-67-77263
 Vermont Dept. of Health: ID# VT-0282
 Virgin Island/PADEP Certification
 Virginia/VELAP Certification #: 460198
 Washington Certification #: C868
 West Virginia DEP Certification #: 143
 West Virginia DHHR Certification #: 9964C
 Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
 Alaska DEC- CS/UST/LUST
 Alabama Certification #: 41320
 California Certification# 3096
 Colorado Certification: FL NELAC Reciprocity
 Connecticut Certification #: PH-0216
 Delaware Certification: FL NELAC Reciprocity
 DoD-ANAB #:ADE-3199
 Florida Certification #: E83079
 Georgia Certification #: 955
 Guam Certification: FL NELAC Reciprocity
 Hawaii Certification: FL NELAC Reciprocity
 Illinois Certification #: 200068
 Indiana Certification: FL NELAC Reciprocity
 Kansas Certification #: E-10383
 Kentucky Certification #: 90050
 Louisiana Certification #: FL NELAC Reciprocity
 Louisiana Environmental Certificate #: 05007
 Maine Certification #: FL01264
 Maryland Certification: #346
 Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911
 Mississippi Certification: FL NELAC Reciprocity
 Missouri Certification #: 236
 Montana Certification #: Cert 0074
 Nebraska Certification: NE-OS-28-14
 New Hampshire Certification #: 2958
 New Jersey Certification #: FL022
 New York Certification #: 11608
 North Carolina Environmental Certificate #: 667
 North Carolina Certification #: 12710
 North Dakota Certification #: R-216
 Ohio DEP 87780
 Oklahoma Certification #: D9947
 Pennsylvania Certification #: 68-00547
 Puerto Rico Certification #: FL01264
 South Carolina Certification: #96042001
 Tennessee Certification #: TN02974
 Texas Certification: FL NELAC Reciprocity
 US Virgin Islands Certification: FL NELAC Reciprocity
 Virginia Environmental Certification #: 460165
 West Virginia Certification #: 9962C

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV1Q24

Pace Project No.: 35855470

Pace Analytical Services Ormond Beach

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35855470001	1Q24-R1T6	Water	01/10/24 13:16	01/23/24 09:55
35855470002	1Q24-R2T1	Water	01/08/24 14:48	01/23/24 09:55
35855470003	1Q24-R3T7	Water	01/10/24 11:19	01/23/24 09:55
35855470004	1Q24-R4T5	Water	01/08/24 11:55	01/23/24 09:55
35855470005	1Q24-R6T1	Water	01/08/24 10:23	01/23/24 09:55
35855470006	1Q24-R6T4	Water	01/10/24 08:52	01/23/24 09:55
35855470007	1Q24-R6T8	Water	01/17/24 11:35	01/23/24 09:55
35855470008	1Q24-R6T12	Water	01/18/24 08:17	01/23/24 09:55
35855470009	1Q24-R8T10	Water	01/18/24 10:27	01/23/24 09:55
35855470010	1Q24-R9T5	Water	01/10/24 14:44	01/23/24 09:55
35855470011	1Q24-R10T8	Water	01/18/24 13:21	01/23/24 09:55
35855470012	1Q24-R11T4	Water	01/18/24 12:24	01/23/24 09:55
35855470013	1Q24-DEEP	Water	01/17/24 12:35	01/23/24 09:55
35855470014	1Q24-EBLANK1	Water	01/10/24 15:12	01/23/24 09:55
35855470015	1Q24-SIS-1	Water	01/11/24 09:23	01/23/24 09:55
35855470016	1Q24-SIS-2	Water	01/11/24 10:12	01/23/24 09:55
35855470017	1Q24-SIS-3	Water	01/11/24 11:22	01/23/24 09:55
35855470018	1Q24-SIS-4	Water	01/11/24 12:30	01/23/24 09:55
35855470019	1Q24-LF-1	Water	01/11/24 08:21	01/23/24 09:55
35855470020	1Q24-LF-2	Water	01/11/24 13:38	01/23/24 09:55
35855470021	1Q24-LF-3	Water	01/12/24 08:10	01/23/24 09:55
35855470022	1Q24-LF-4	Water	01/12/24 09:14	01/23/24 09:55
35855470023	1Q24-LF-5	Water	01/17/24 09:20	01/23/24 09:55
35855470024	1Q24-LF-6	Water	01/17/24 10:14	01/23/24 09:55
35855470025	1Q24-EBLANK2	Water	01/11/24 13:10	01/23/24 09:55
35855470026	1Q24-Barnstead	Water	01/08/24 07:36	01/23/24 09:55

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470001	1Q24-R1T6	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470002	1Q24-R2T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470003	1Q24-R3T7	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470004	1Q24-R4T5	EPA 6020B	MT1	4	PASI-GA
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470005	1Q24-R6T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470006	1Q24-R6T4	EPA 6020B	MT1	4	PASI-GA
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470007	1Q24-R6T8	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470008	1Q24-R6T12	SM 7110C-2000	KET	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470009	1Q24-R8T10	EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
35855470010	1Q24-R9T5	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
35855470011	1Q24-R10T8	SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35855470012	1Q24-R11T4	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
35855470013	1Q24-DEEP	EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
35855470014	1Q24-EBLANK1	EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	VAG	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
35855470015	1Q24-SIS-1	SM 5310B	EAD	1	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35855470016	1Q24-SIS-2	EPA 300.0	VAG	3	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470017	1Q24-SIS-3	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470018	1Q24-SIS-4	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470019	1Q24-LF-1	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470020	1Q24-LF-2	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470021	1Q24-LF-3	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470022	1Q24-LF-4	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470023	1Q24-LF-5	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470024	1Q24-LF-6	EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35855470025	1Q24-EBLANK2	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
		EPA 6020B	MT1	4	PASI-GA
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	VAG	3	PASI-O
35855470026	1Q24-Barnstead	EPA 6020B	MT1	4	PASI-GA
		EPA 300.0	CMB	3	PASI-O

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

PASI-O = Pace Analytical Services - Ormond Beach

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R4T5 **Lab ID: 35855470004** Collected: 01/08/24 11:55 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 16:47	7440-36-0	
Boron	15.1 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 16:47	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 16:47	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 16:47	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	4.6 I	mg/L	5.0	2.5	1		01/25/24 01:55	16887-00-6	
Fluoride	0.28	mg/L	0.050	0.015	1		01/25/24 01:55	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/25/24 01:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.083	mg/L	0.050	0.015	1		01/30/24 15:55		
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	23.1	mg/L	1.0	0.50	1		01/26/24 04:05	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R6T4 Lab ID: 35855470006 Collected: 01/10/24 08:52 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 16:50	7440-36-0	
Boron	24.9 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 16:50	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 16:50	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 16:50	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	12.5	mg/L	5.0	2.5	1		01/27/24 22:23	16887-00-6	
Fluoride	0.076	mg/L	0.050	0.015	1		01/27/24 22:23	16984-48-8	
Sulfate	64.3	mg/L	5.0	2.5	1		01/27/24 22:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Ormond Beach									
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		01/31/24 20:12		
5310B TOC									
Analytical Method: SM 5310B									
Pace Analytical Services - Ormond Beach									
Total Organic Carbon	7.0	mg/L	1.0	0.50	1		01/29/24 18:13	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK1 Lab ID: 35855470014 Collected: 01/10/24 15:12 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	2.5 U	mg/L	5.0	2.5	1		01/28/24 04:55	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/28/24 04:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		01/31/24 22:04		
5310B TOC		Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach							
Total Organic Carbon	0.50 U	mg/L	1.0	0.50	1		01/29/24 20:51	7440-44-0	Y

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-1 Lab ID: 35855470015 Collected: 01/11/24 09:23 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.56 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:05	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:05	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:05	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:05	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	30.1	mg/L	5.0	2.5	1		01/29/24 18:00	16887-00-6	
Fluoride	0.17	mg/L	0.050	0.015	1		01/29/24 18:00	16984-48-8	
Sulfate	28.0	mg/L	5.0	2.5	1		01/29/24 18:00	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-2 Lab ID: 35855470016 Collected: 01/11/24 10:12 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:09	7440-36-0	
Boron	41.1	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:09	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:09	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:09	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	159	mg/L	25.0	12.5	5		01/29/24 18:22	16887-00-6	
Fluoride	0.27	mg/L	0.25	0.073	5		01/29/24 18:22	16984-48-8	
Sulfate	370	mg/L	25.0	12.5	5		01/29/24 18:22	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-3 Lab ID: 35855470017 Collected: 01/11/24 11:22 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:13	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:13	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:13	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:13	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	11.9	mg/L	5.0	2.5	1		01/29/24 18:43	16887-00-6	
Fluoride	0.13	mg/L	0.050	0.015	1		01/29/24 18:43	16984-48-8	
Sulfate	6.5	mg/L	5.0	2.5	1		01/29/24 18:43	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-SIS-4 **Lab ID: 35855470018** Collected: 01/11/24 12:30 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:24	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:24	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:24	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:24	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	11.3	mg/L	5.0	2.5	1		01/29/24 19:04	16887-00-6	
Fluoride	0.22	mg/L	0.050	0.015	1		01/29/24 19:04	16984-48-8	
Sulfate	12.5	mg/L	5.0	2.5	1		01/29/24 19:04	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-1 Lab ID: 35855470019 Collected: 01/11/24 08:21 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	2.1 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:28	7440-36-0	
Boron	117	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:28	7440-42-8	
Lithium	3.6 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:28	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:28	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	8.0	mg/L	5.0	2.5	1		01/29/24 19:26	16887-00-6	
Fluoride	0.11	mg/L	0.050	0.015	1		01/29/24 19:26	16984-48-8	
Sulfate	13.2	mg/L	5.0	2.5	1		01/29/24 19:26	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-2 Lab ID: 35855470020 Collected: 01/11/24 13:38 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:32	7440-36-0	
Boron	36.1 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:32	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:32	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:32	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	42.1	mg/L	5.0	2.5	1		01/29/24 19:47	16887-00-6	
Fluoride	0.25	mg/L	0.050	0.015	1		01/29/24 19:47	16984-48-8	
Sulfate	18.9	mg/L	5.0	2.5	1		01/29/24 19:47	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-3 **Lab ID: 35855470021** Collected: 01/12/24 08:10 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:35	7440-36-0	
Boron	2120	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:35	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:35	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:35	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	21.7	mg/L	5.0	2.5	1		01/29/24 20:09	16887-00-6	
Fluoride	0.031 I	mg/L	0.050	0.015	1		01/29/24 20:09	16984-48-8	
Sulfate	98.2	mg/L	5.0	2.5	1		01/29/24 20:09	14808-79-8	J(M1)

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-4 **Lab ID: 35855470022** Collected: 01/12/24 09:14 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:39	7440-36-0	
Boron	218	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:39	7440-42-8	
Lithium	6.9 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:39	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:39	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	18.4	mg/L	5.0	2.5	1		01/29/24 21:56	16887-00-6	
Fluoride	0.086	mg/L	0.050	0.015	1		01/29/24 21:56	16984-48-8	
Sulfate	47.0	mg/L	5.0	2.5	1		01/29/24 21:56	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-5 Lab ID: 35855470023 Collected: 01/17/24 09:20 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.76 I	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:43	7440-36-0	
Boron	731	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:43	7440-42-8	
Lithium	1.6 I	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:43	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:43	7440-28-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	22.4	mg/L	5.0	2.5	1		01/29/24 22:18	16887-00-6	
Fluoride	0.096	mg/L	0.050	0.015	1		01/29/24 22:18	16984-48-8	
Sulfate	314	mg/L	25.0	12.5	5		01/30/24 08:40	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-6 **Lab ID: 35855470024** Collected: 01/17/24 10:14 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:47	7440-36-0	
Boron	14.4 I	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:47	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:47	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:47	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	3.1 I	mg/L	5.0	2.5	1		01/29/24 22:39	16887-00-6	
Fluoride	0.040 I	mg/L	0.050	0.015	1		01/29/24 22:39	16984-48-8	
Sulfate	15.8	mg/L	5.0	2.5	1		01/29/24 22:39	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK2 Lab ID: 35855470025 Collected: 01/11/24 13:10 Received: 01/23/24 09:55 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.54 U	ug/L	3.0	0.54	1	01/29/24 12:50	01/30/24 17:50	7440-36-0	
Boron	11.9 U	ug/L	40.0	11.9	1	01/29/24 12:50	01/30/24 17:50	7440-42-8	
Lithium	1.6 U	ug/L	30.0	1.6	1	01/29/24 12:50	01/30/24 17:50	7439-93-2	
Thallium	0.38 U	ug/L	1.0	0.38	1	01/29/24 12:50	01/30/24 17:50	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		01/29/24 23:00	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		01/29/24 23:00	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		01/29/24 23:00	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	828557	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025, 35855470026		

METHOD BLANK:	4283207	Matrix:	Water
Associated Lab Samples:	35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025, 35855470026		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.54 U	3.0	0.54	01/30/24 16:39	
Boron	ug/L	11.9 U	40.0	11.9	01/30/24 16:39	
Lithium	ug/L	1.6 U	30.0	1.6	01/30/24 16:39	
Thallium	ug/L	0.38 U	1.0	0.38	01/30/24 16:39	

LABORATORY CONTROL SAMPLE: 4283208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	100	102	102	80-120	
Boron	ug/L	1000	1110	111	80-120	
Lithium	ug/L	100	110	110	80-120	
Thallium	ug/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4283209 4283210

Parameter	Units	35855470006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	ug/L	0.54 U	100	104	100	105	104	105	75-125	1	20	
Boron	ug/L	24.9 I	1000	1040	1000	1040	102	102	75-125	0	20	
Lithium	ug/L	1.6 U	100	102	100	102	102	102	75-125	0	20	
Thallium	ug/L	0.38 U	100	94.8	100	95.1	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	983579	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470004, 35855470005, 35855470026		

METHOD BLANK: 5410198 Matrix: Water
 Associated Lab Samples: 35855470004, 35855470005, 35855470026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/24/24 15:36	
Fluoride	mg/L	0.015 U	0.050	0.015	01/24/24 15:36	
Sulfate	mg/L	2.5 U	5.0	2.5	01/24/24 15:36	

LABORATORY CONTROL SAMPLE: 5410199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5412413 5412414

Parameter	Units	35855009004		5412413		5412414		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	9.0	50	50	58.3	57.5	99	97	90-110	1	20		
Fluoride	mg/L	0.50	5	5	5.7	5.6	104	103	90-110	1	20		
Sulfate	mg/L	2.5 U	50	50	49.8	49.2	96	94	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5412415 5412416

Parameter	Units	35855224001		5412415		5412416		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	27.4	50	50	78.2	83.4	102	112	90-110	6	20	J(M1)	
Fluoride	mg/L	0.65	5	5	5.5	6.1	98	108	90-110	9	20		
Sulfate	mg/L	106	100	100	214	215	108	109	90-110	0	20	L	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 984246

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470002

METHOD BLANK: 5413879

Matrix: Water

Associated Lab Samples: 35855470002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/26/24 16:23	
Sulfate	mg/L	2.5 U	5.0	2.5	01/26/24 16:23	

LABORATORY CONTROL SAMPLE: 5413880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	
Sulfate	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415343 5415344

Parameter	Units	35856196001		5415344		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	11.6	50	50	61.5	60.8	100	98	90-110	1	20
Sulfate	mg/L	13.3	50	50	63.0	62.2	99	98	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415345 5415346

Parameter	Units	35855290003		5415346		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	48.2	50	50	103	102	110	109	90-110	1	20 L
Sulfate	mg/L	2.5 U	50	50	48.3	47.7	94	93	90-110	1	20

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984475	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470001, 35855470003, 35855470006

METHOD BLANK: 5415139 Matrix: Water
 Associated Lab Samples: 35855470001, 35855470003, 35855470006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/27/24 13:32	
Fluoride	mg/L	0.015 U	0.050	0.015	01/27/24 13:32	
Sulfate	mg/L	2.5 U	5.0	2.5	01/27/24 13:32	

LABORATORY CONTROL SAMPLE: 5415140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.8	94	90-110	
Fluoride	mg/L	5	5.0	99	90-110	
Sulfate	mg/L	50	46.4	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5416058 5416059

Parameter	Units	35855644001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chloride	mg/L	38.9	50	50	93.4	93.9	109	110	90-110	1	20		
Fluoride	mg/L	0.68	5	5	5.9	5.9	104	105	90-110	1	20		
Sulfate	mg/L	11.2	50	50	60.2	60.4	98	99	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5416060 5416061

Parameter	Units	35855470003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chloride	mg/L	9.3	50	50	59.3	58.6	100	99	90-110	1	20		
Fluoride	mg/L	0.30	5	5	5.5	5.4	104	103	90-110	1	20		
Sulfate	mg/L	56.2	50	50	112	112	112	111	90-110	0	20	J(M1), L	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984493	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

METHOD BLANK:	5415283	Matrix:	Water
Associated Lab Samples:	35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/27/24 19:16	
Sulfate	mg/L	2.5 U	5.0	2.5	01/27/24 19:16	

LABORATORY CONTROL SAMPLE: 5415284						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415872													5415873	
Parameter	Units	35856533009		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Chloride	mg/L	259	250	250	527	539	107	112	90-110	2	20	J(M1), L
Sulfate	mg/L	52.2	250	250	297	301	98	100	90-110	2	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415876													5415877	
Parameter	Units	35855470010		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Chloride	mg/L	27.5	50	50	82.3	82.5	110	110	90-110	0	20	
Sulfate	mg/L	177	50	50	279	279	131	130	90-110	0	20	J(M1), L		

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984780	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470010, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

METHOD BLANK: 5416120 Matrix: Water

Associated Lab Samples: 35855470010, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/29/24 16:13	
Fluoride	mg/L	0.015 U	0.050	0.015	01/29/24 16:13	
Sulfate	mg/L	2.5 U	5.0	2.5	01/29/24 16:13	

LABORATORY CONTROL SAMPLE: 5416121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417865 5417866

Parameter	Units	35855470021		5417866		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	21.7	50	50	73.7	74.0	104	105	90-110	0	20	
Fluoride	mg/L	0.031 I	5	5	4.9	4.9	98	98	90-110	0	20	
Sulfate	mg/L	98.2	50	50	157	157	117	117	90-110	0	20	J(M1), L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417867 5417868

Parameter	Units	35855843001		5417868		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	7.9	50	50	58.2	58.5	101	101	90-110	0	20	
Fluoride	mg/L	0.15	5	5	5.2	5.2	101	102	90-110	0	20	
Sulfate	mg/L	ND	50	50	49.7	50.0	96	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 985088

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470004, 35855470005

METHOD BLANK: 5417520

Matrix: Water

Associated Lab Samples: 35855470004, 35855470005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/30/24 15:15	

LABORATORY CONTROL SAMPLE: 5417521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417523 5417522

Parameter	Units	35855920005		5417523		5417522		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.9	2.0	97	98	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417525 5417524

Parameter	Units	35856557005		5417525		5417524		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.65	2	2	2.5	2.5	93	92	90-110	1	20		

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	985089	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470002

METHOD BLANK: 5417527 Matrix: Water

Associated Lab Samples: 35855470002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 01:52	

LABORATORY CONTROL SAMPLE: 5417528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417530 5417529

Parameter	Units	35856608001		5417529		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.13	2	2	1.9	2.0	89	92	90-110	3	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5417532 5417531

Parameter	Units	35855420005		5417531		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	11.1	20	20	28.1	27.4	85	81	90-110	2	20	J(M1)

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch: 985455

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35855470006

METHOD BLANK: 5419483

Matrix: Water

Associated Lab Samples: 35855470006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 19:35	

LABORATORY CONTROL SAMPLE: 5419484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419486 5419485

Parameter	Units	35855630001		5419486		5419485		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.5	1.5	73	74	90-110	1	20	J(M1)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419488 5419487

Parameter	Units	35856917003		5419488		5419487		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	2.1	2	2	3.2	3.2	52	55	90-110	1	20	J(M1)	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	985502	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470001, 35855470003, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

METHOD BLANK:	5419884	Matrix:	Water
Associated Lab Samples:	35855470001, 35855470003, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/31/24 22:47	

LABORATORY CONTROL SAMPLE: 5419885						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419887												5419886	
Parameter	Units	35855470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.1	1.2	57	61	90-110	8	20	J(M1)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5419889												5419888	
Parameter	Units	35855873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.63	2	2	2.2	2.2	79	79	90-110	0	20	J(M1)	

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	983863	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470002, 35855470004, 35855470005		

METHOD BLANK: 5411633 Matrix: Water
 Associated Lab Samples: 35855470002, 35855470004, 35855470005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	01/26/24 00:13	

LABORATORY CONTROL SAMPLE: 5411634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5411635 5411636

Parameter	Units	35854934001		5411635		5411636		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Total Organic Carbon	mg/L	16.1	20	20	20	36.2	36.3	100	101	80-120	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5411637 5411638

Parameter	Units	35855595001		5411637		5411638		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Total Organic Carbon	mg/L	7.1	20	20	20	26.4	26.2	96	96	80-120	1	20

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QUALITY CONTROL DATA

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	984679	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35855470001, 35855470003, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

METHOD BLANK:	5415798	Matrix:	Water
Associated Lab Samples:	35855470001, 35855470003, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	01/29/24 16:47	

LABORATORY CONTROL SAMPLE: 5415799						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	20.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415800												5415801	
Parameter	Units	35855470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Total Organic Carbon	mg/L	5.0	20	20	25.8	25.3	104	101	80-120	2	20	Y	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5415802												5415803	
Parameter	Units	35856217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Total Organic Carbon	mg/L	9.1	20	20	27.8	28.3	93	96	80-120	2	20		

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-R4T5 Lab ID: 35855470004 Collected: 01/08/24 11:55 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
Gross Alpha	SM 7110C-2000	2.79U ± 1.56 (2.79) C:NA T:NA	pCi/L	02/07/24 20:33	12587-46-1	
Radium-226	EPA 903.1	1.48U ± 0.723 (1.48) C:NA T:92%	pCi/L	02/05/24 14:15	13982-63-3	
Radium-228	EPA 904.0	0.687U ± 0.344 (0.687) C:81% T:86%	pCi/L	02/05/24 12:10	15262-20-1	
Total Radium	Total Radium Calculation	2.17U ± 1.07 (2.17)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-R6T4 **Lab ID: 35855470006** Collected: 01/10/24 08:52 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Gross Alpha	SM 7110C-2000	2.66 ± 1.56 (2.45) C:NA T:NA	pCi/L	02/07/24 18:26	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.40U ± 0.685 (1.40) C:NA T:82%	pCi/L	02/05/24 14:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.690U ± 0.362 (0.690) C:84% T:76%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.09U ± 1.05 (2.09)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-EBLANK1		Lab ID: 35855470014	Collected: 01/10/24 15:12	Received: 01/23/24 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Gross Alpha	SM 7110C-2000	3.01U ± 1.73 (3.01)		pCi/L	02/07/24 18:08	12587-46-1	
		C:NA T:NA					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-1 Lab ID: 35855470015 Collected: 01/11/24 09:23 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.355 ± 0.327 (0.192) C:NA T:86%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.657U ± 0.347 (0.657) C:80% T:78%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.849U ± 0.674 (0.849)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-2 Lab ID: 35855470016 Collected: 01/11/24 10:12 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.23U ± 0.700 (1.23) C:NA T:74%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.15 ± 0.481 (0.708) C:80% T:73%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94U ± 1.18 (1.94)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-3 Lab ID: 35855470017 Collected: 01/11/24 11:22 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.876U ± 0.456 (0.876) C:NA T:92%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.645U ± 0.326 (0.645) C:83% T:84%	pCi/L	02/05/24 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52U ± 0.782 (1.52)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-SIS-4 Lab ID: 35855470018 Collected: 01/11/24 12:30 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.898U ± 0.414 (0.898) C:NA T:89%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.963U ± 0.486 (0.963) C:78% T:84%	pCi/L	02/05/24 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.86U ± 0.900 (1.86)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-1						
Lab ID: 35855470019						
Collected: 01/11/24 08:21						
Received: 01/23/24 09:55						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.02U ± 0.673 (1.02) C:NA T:88%	pCi/L	02/05/24 14:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.836U ± 0.409 (0.836) C:86% T:78%	pCi/L	02/05/24 15:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.86U ± 1.08 (1.86)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-2						
Lab ID: 35855470020						
Collected: 01/11/24 13:38						
Received: 01/23/24 09:55						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.04U ± 0.684 (1.04) C:NA T:88%	pCi/L	02/05/24 14:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.612U ± 0.233 (0.612) C:87% T:84%	pCi/L	02/05/24 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.65U ± 0.917 (1.65)	pCi/L	02/07/24 09:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-LF-3 Lab ID: 35855470021 Collected: 01/12/24 08:10 Received: 01/23/24 09:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.18 ± 0.660 (0.847) C:NA T:107%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.24 ± 0.558 (0.964) C:87% T:76%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.41 ± 1.22 (1.81)	pCi/L	02/07/24 09:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-4 **Lab ID: 35855470022** Collected: 01/12/24 09:14 Received: 01/23/24 09:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.844U ± 0.457 (0.844) C:NA T:81%	pCi/L	02/05/24 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.723U ± 0.322 (0.723) C:87% T:71%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.57U ± 0.779 (1.57)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-5 **Lab ID: 35855470023** Collected: 01/17/24 09:20 Received: 01/23/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	4.82 ± 1.32 (0.210) C:NA T:76%	pCi/L	02/05/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.82 ± 0.750 (0.739) C:89% T:69%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	7.63 ± 2.07 (0.949)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Sample: 1Q24-LF-6 **Lab ID: 35855470024** Collected: 01/17/24 10:14 Received: 01/23/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.06U ± 0.394 (1.06) C:NA T:86%	pCi/L	02/05/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.677U ± 0.318 (0.677) C:90% T:80%	pCi/L	02/05/24 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.74U ± 0.712 (1.74)	pCi/L	02/07/24 09:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 1Q24-EBLANK2						
Lab ID: 35855470025						
Collected: 01/11/24 13:10						
Received: 01/23/24 09:55						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.13U ± 0.504 (1.13) C:NA T:85%	pCi/L	02/05/24 14:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.849U ± 0.407 (0.849) C:90% T:82%	pCi/L	02/05/24 15:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.98U ± 0.911 (1.98)	pCi/L	02/07/24 09:54	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	644981	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

METHOD BLANK:	3143115	Matrix:	Water
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Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0568 ± 0.259 (0.527) C:NA T:90%	pCi/L	02/05/24 14:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	644983	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

METHOD BLANK:	3143116	Matrix:	Water
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Associated Lab Samples: 35855470004, 35855470006, 35855470015, 35855470016, 35855470017, 35855470018, 35855470019, 35855470020, 35855470021, 35855470022, 35855470023, 35855470024, 35855470025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.442 ± 0.326 (0.620) C:80% T:75%	pCi/L	02/05/24 12:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q24

Pace Project No.: 35855470

QC Batch:	646707	Analysis Method:	SM 7110C-2000
QC Batch Method:	SM 7110C-2000	Analysis Description:	7110C Gross Alpha
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35855470001, 35855470002, 35855470003, 35855470004, 35855470005, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

METHOD BLANK:	3150740	Matrix:	Water
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Associated Lab Samples: 35855470001, 35855470002, 35855470003, 35855470004, 35855470005, 35855470006, 35855470007, 35855470008, 35855470009, 35855470010, 35855470011, 35855470012, 35855470013, 35855470014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.872 ± 1.06 (2.18) C:NA T:NA	pCi/L	02/08/24 08:34	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: ENV1Q24

Pace Project No.: 35855470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470004	1Q24-R4T5	EPA 3005A	828557	EPA 6020B	828677
35855470006	1Q24-R6T4	EPA 3005A	828557	EPA 6020B	828677
35855470015	1Q24-SIS-1	EPA 3005A	828557	EPA 6020B	828677
35855470016	1Q24-SIS-2	EPA 3005A	828557	EPA 6020B	828677
35855470017	1Q24-SIS-3	EPA 3005A	828557	EPA 6020B	828677
35855470018	1Q24-SIS-4	EPA 3005A	828557	EPA 6020B	828677
35855470019	1Q24-LF-1	EPA 3005A	828557	EPA 6020B	828677
35855470020	1Q24-LF-2	EPA 3005A	828557	EPA 6020B	828677
35855470021	1Q24-LF-3	EPA 3005A	828557	EPA 6020B	828677
35855470022	1Q24-LF-4	EPA 3005A	828557	EPA 6020B	828677
35855470023	1Q24-LF-5	EPA 3005A	828557	EPA 6020B	828677
35855470024	1Q24-LF-6	EPA 3005A	828557	EPA 6020B	828677
35855470025	1Q24-EBLANK2	EPA 3005A	828557	EPA 6020B	828677
35855470026	1Q24-Barnstead	EPA 3005A	828557	EPA 6020B	828677
35855470001	1Q24-R1T6	SM 7110C-2000	646707		
35855470002	1Q24-R2T1	SM 7110C-2000	646707		
35855470003	1Q24-R3T7	SM 7110C-2000	646707		
35855470004	1Q24-R4T5	SM 7110C-2000	646707		
35855470005	1Q24-R6T1	SM 7110C-2000	646707		
35855470006	1Q24-R6T4	SM 7110C-2000	646707		
35855470007	1Q24-R6T8	SM 7110C-2000	646707		
35855470008	1Q24-R6T12	SM 7110C-2000	646707		
35855470009	1Q24-R8T10	SM 7110C-2000	646707		
35855470010	1Q24-R9T5	SM 7110C-2000	646707		
35855470011	1Q24-R10T8	SM 7110C-2000	646707		
35855470012	1Q24-R11T4	SM 7110C-2000	646707		
35855470013	1Q24-DEEP	SM 7110C-2000	646707		
35855470014	1Q24-EBLANK1	SM 7110C-2000	646707		
35855470004	1Q24-R4T5	EPA 903.1	644981		
35855470006	1Q24-R6T4	EPA 903.1	644981		
35855470015	1Q24-SIS-1	EPA 903.1	644981		
35855470016	1Q24-SIS-2	EPA 903.1	644981		
35855470017	1Q24-SIS-3	EPA 903.1	644981		
35855470018	1Q24-SIS-4	EPA 903.1	644981		
35855470019	1Q24-LF-1	EPA 903.1	644981		
35855470020	1Q24-LF-2	EPA 903.1	644981		
35855470021	1Q24-LF-3	EPA 903.1	644981		
35855470022	1Q24-LF-4	EPA 903.1	644981		
35855470023	1Q24-LF-5	EPA 903.1	644981		
35855470024	1Q24-LF-6	EPA 903.1	644981		
35855470025	1Q24-EBLANK2	EPA 903.1	644981		
35855470004	1Q24-R4T5	EPA 904.0	644983		
35855470006	1Q24-R6T4	EPA 904.0	644983		
35855470015	1Q24-SIS-1	EPA 904.0	644983		
35855470016	1Q24-SIS-2	EPA 904.0	644983		
35855470017	1Q24-SIS-3	EPA 904.0	644983		
35855470018	1Q24-SIS-4	EPA 904.0	644983		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470019	1Q24-LF-1	EPA 904.0	644983		
35855470020	1Q24-LF-2	EPA 904.0	644983		
35855470021	1Q24-LF-3	EPA 904.0	644983		
35855470022	1Q24-LF-4	EPA 904.0	644983		
35855470023	1Q24-LF-5	EPA 904.0	644983		
35855470024	1Q24-LF-6	EPA 904.0	644983		
35855470025	1Q24-EBLANK2	EPA 904.0	644983		
35855470004	1Q24-R4T5	Total Radium Calculation	647046		
35855470006	1Q24-R6T4	Total Radium Calculation	647046		
35855470015	1Q24-SIS-1	Total Radium Calculation	647046		
35855470016	1Q24-SIS-2	Total Radium Calculation	647046		
35855470017	1Q24-SIS-3	Total Radium Calculation	647046		
35855470018	1Q24-SIS-4	Total Radium Calculation	647046		
35855470019	1Q24-LF-1	Total Radium Calculation	647046		
35855470020	1Q24-LF-2	Total Radium Calculation	647046		
35855470021	1Q24-LF-3	Total Radium Calculation	647046		
35855470022	1Q24-LF-4	Total Radium Calculation	647046		
35855470023	1Q24-LF-5	Total Radium Calculation	647046		
35855470024	1Q24-LF-6	Total Radium Calculation	647046		
35855470025	1Q24-EBLANK2	Total Radium Calculation	647046		
35855470001	1Q24-R1T6	EPA 300.0	984475		
35855470002	1Q24-R2T1	EPA 300.0	984246		
35855470003	1Q24-R3T7	EPA 300.0	984475		
35855470004	1Q24-R4T5	EPA 300.0	983579		
35855470005	1Q24-R6T1	EPA 300.0	983579		
35855470006	1Q24-R6T4	EPA 300.0	984475		
35855470007	1Q24-R6T8	EPA 300.0	984493		
35855470008	1Q24-R6T12	EPA 300.0	984493		
35855470009	1Q24-R8T10	EPA 300.0	984493		
35855470010	1Q24-R9T5	EPA 300.0	984493		
35855470010	1Q24-R9T5	EPA 300.0	984780		
35855470011	1Q24-R10T8	EPA 300.0	984493		
35855470012	1Q24-R11T4	EPA 300.0	984493		
35855470013	1Q24-DEEP	EPA 300.0	984493		
35855470014	1Q24-EBLANK1	EPA 300.0	984493		
35855470015	1Q24-SIS-1	EPA 300.0	984780		
35855470016	1Q24-SIS-2	EPA 300.0	984780		
35855470017	1Q24-SIS-3	EPA 300.0	984780		
35855470018	1Q24-SIS-4	EPA 300.0	984780		
35855470019	1Q24-LF-1	EPA 300.0	984780		
35855470020	1Q24-LF-2	EPA 300.0	984780		
35855470021	1Q24-LF-3	EPA 300.0	984780		
35855470022	1Q24-LF-4	EPA 300.0	984780		
35855470023	1Q24-LF-5	EPA 300.0	984780		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q24

Pace Project No.: 35855470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35855470024	1Q24-LF-6	EPA 300.0	984780		
35855470025	1Q24-EBLANK2	EPA 300.0	984780		
35855470026	1Q24-Barnstead	EPA 300.0	983579		
35855470001	1Q24-R1T6	EPA 353.2	985502		
35855470002	1Q24-R2T1	EPA 353.2	985089		
35855470003	1Q24-R3T7	EPA 353.2	985502		
35855470004	1Q24-R4T5	EPA 353.2	985088		
35855470005	1Q24-R6T1	EPA 353.2	985088		
35855470006	1Q24-R6T4	EPA 353.2	985455		
35855470007	1Q24-R6T8	EPA 353.2	985502		
35855470008	1Q24-R6T12	EPA 353.2	985502		
35855470009	1Q24-R8T10	EPA 353.2	985502		
35855470010	1Q24-R9T5	EPA 353.2	985502		
35855470011	1Q24-R10T8	EPA 353.2	985502		
35855470012	1Q24-R11T4	EPA 353.2	985502		
35855470013	1Q24-DEEP	EPA 353.2	985502		
35855470014	1Q24-EBLANK1	EPA 353.2	985502		
35855470001	1Q24-R1T6	SM 5310B	984679		
35855470002	1Q24-R2T1	SM 5310B	983863		
35855470003	1Q24-R3T7	SM 5310B	984679		
35855470004	1Q24-R4T5	SM 5310B	983863		
35855470005	1Q24-R6T1	SM 5310B	983863		
35855470006	1Q24-R6T4	SM 5310B	984679		
35855470007	1Q24-R6T8	SM 5310B	984679		
35855470008	1Q24-R6T12	SM 5310B	984679		
35855470009	1Q24-R8T10	SM 5310B	984679		
35855470010	1Q24-R9T5	SM 5310B	984679		
35855470011	1Q24-R10T8	SM 5310B	984679		
35855470012	1Q24-R11T4	SM 5310B	984679		
35855470013	1Q24-DEEP	SM 5310B	984679		
35855470014	1Q24-EBLANK1	SM 5310B	984679		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St
Gainesville, FL 32653

Report To: Jeff Boudreau

Billing Information:
PO#4510060812

Email To: boudreaujp@gru.com

Site Collection Info/Address:
Deerhaven Generating Station

Customer Project Name/Number:
ENV1Q24

State: FL / Gainesville

Time Zone Collected: [] PT [] MT [] CT [] ET

Site/Facility ID #: 35-000113 / DEELAB

Purchase Order #: 4510060812

Turnaround Date Required: Normal

Sample Disposal: [] Return [] Dispose as appropriate [] Hold:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns
			Date	Time			
1Q24-R1T6	GW	Grab	1/10/24	13:16			3
1Q24-R2T1	GW	Grab	1/8/24	14:48			3
1Q24-R3T7	GW	Grab	1/10/24	11:19			3
1Q24-R4T5	GW	Grab	1/8/24	11:55			5
1Q24-R6T1	GW	Grab	1/8/24	10:23			3
1Q24-R6T4	GW	Grab	1/10/24	08:52			5
1Q24-R6T8	GW	Grab	1/17/24	11:35			3
1Q24-R6T12	GW	Grab	1/18/24	08:17			3
1Q24-R8T10	GW	Grab	1/18/24	10:27			3
1Q24-R9T5	GW	Grab	1/10/24	14:44			3

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Date/Time: 1-22-24 / 13:00

Received by/Company: (Signature) NDDAC

Received by/Company: (Signature)

Received by/Company: (Signature)

WO#: 35855470



35855470

LAB USE

Container / PRESERVATIVE TYPE

ICE 2 1 1 ICE 1 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

300.0 IC Anions (Cl, SO4)

353.2 Nitrogen, NO2/NO3

5310B TOC

Gross Alpha by 710C

300.0 IC Anions (Cl, SO4, F)

6020 Metals (Sb, Tl, B, Li)

Sum of Radium 226+228

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signature Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VQA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips: Y N NA
- Sample pH Acceptable Y N NA
- pH Strips: Y N NA
- Sulfide Present Y N NA
- Lead Acetate Strips: Y N NA

LAB USE ONLY:

Lab Sample # / Comments:

SHORT HOLDS PRESENT (-72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 1-23-24 0955

Table #: Acctnum: Template: Prelogin: PM: PB:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: ___oC

Cooler 1 Therm Corr. Factor: ___oC

Cooler 1 Corrected Temp: 0.6 oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3

Shipped via FedEx

Relinquished by/Company: (Signature) K. Brakfield, GRU

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St, Gainesville, FL 32653

Report To: Jeff Boudreau

Copy To: boudreauj@gru.com

Customer Project Name/Number: ENV1Q24

Site/Facility ID #: 35-000113 / DEELAB

Collected By (print): JCD/KB

Turnaround Date Required: Normal

Sample Disposal: [X] Dispose as appropriate [] Return

* Matrix Codes (Insert in Matrix box below): Drinking Water (GW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 1Q24-R10T8

1Q24-R11T4

1Q24-DEEP

1Q24-EBLANK1

1Q24-SIS-1

1Q24-SIS-2

1Q24-SIS-3

1Q24-SIS-4

1Q24-LF-1

1Q24-LF-2

Customer Remarks / Special Conditions / Possible Hazards:

Shipped via FedEx

Billing Information: PO#4510060812

Email To: boudreauj@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

Time Zone Collected: [] PT [] MT [] CT [X] ET

Compliance Monitoring: [] Yes [] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [X] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis:

Collected (or Composite Start) Date Time

1/18/24 13:21

1/18/24 12:24

1/17/24 12:35

1/10/24 15:12

1/11/24 09:23

1/11/24 10:12

1/11/24 11:22

1/11/24 12:30

1/11/24 08:21

1/11/24 13:38

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature)

Date/Time: 1-22-24 / 13:00

Received by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Container Preservative Type: ICE 2 1 1 ICE 1 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA, Custody Signatures Present Y N NA, Collector Signature Present Y N NA, Bottles Intact Y N NA, Correct Bottles Y N NA, Sufficient Volume Y N NA, Samples Received on Ice Y N NA, VOA - Headspace Acceptable Y N NA, USDA Regulated Soils Y N NA, Samples in Holding Time Y N NA, Residual Chlorine Present Y N NA, Cl Strips: Sample pH Acceptable Y N NA, pH Strips: Sulfide Present Y N NA, Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Sum of Radium 226+228

6020 Metals (Sb, Tl, B, Li)

300.0 IC Anions (Cl, SO4, F)

Gross Alpha by 7110C

5310B TOC

353.2 Nitrogen, NO2/NO3

300.0 IC Anions (Cl, SO4)

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Courier Pace Courier

Date/Time: MTJL LAB USE ONLY

Date/Time: Table #:

Date/Time: Accnum:

Date/Time: Template:

Date/Time: Prelogin:

Date/Time: PM:

Date/Time: PB:

Lab Sample Temperature Info: Temp Blank Received: Y N NA, Therm ID#: Cooler 1 Temp Upon Receipt: oC, Cooler 1 Therm Corr. Factor: oC, Cooler 1 Corrected Temp: 0.6 oC, Comments:

Trip Blank Received: Y N NA, HCL MeOH TSP Other, Non Conformance(s): YES / NO, Page: 2 of 3



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

Company: **Gainesville Regional Utilities**

Address: 10001 NW 13th St, Gainesville, FL 32653

Report To: **Jeff Boudreau**

Copy To:

Customer Project Name/Number: **ENV1Q24**

Phone: 352-393-6346

Email: **boudreaujp@gru.com**

Collected By (print): **JCD/KB**

Collected By (signature):

Sample Disposal: Dispose as appropriate Return Archive: Hold:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information: **PO#4510060812**

Email To: **boudreaujp@gru.com**

Site Collection Info/Address: Deerhaven Generating Station

State: **FL** / Gainesville

County/City: **FL** / Gainesville

Time Zone Collected: **ET**

Compliance Monitoring? Yes No

DW PWS ID #: **DEELAB**

DW Location Code: **4510060812**

Immediately Packed on Ice: Yes No

Field Filtered (if applicable): Yes No

Analysis: _____

Turnaround Date Required: **Normal**

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Comp/Grab

Matrix *

Collected (or Composite Start) Date Time

Res Cl

of Ctns

1Q24-LF-3 **GW** **Grab** **1/12/24 08:10** **3**

1Q24-LF-4 **GW** **Grab** **1/12/24 09:14** **3**

1Q24-LF-5 **GW** **Grab** **1/17/24 09:20** **3**

1Q24-LF-6 **GW** **Grab** **1/17/24 10:14** **3**

1Q24-EBLANK2 **GW** **Grab** **1/11/24 13:10** **3**

1Q24-Barnstead **GW** **Grab** **1/8/24 07:36** **2**

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

ICE	2	1	1	1	1	1
-----	---	---	---	---	---	---

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

353.2 Nitrogen, NO2/NO3	5310B TOC	Gross Alpha by 7110C	300.0 IC Anions (Cl, SO4, F)	6020 Metals (Sb, Tl, B, Li)	Sum of Radium 226+228	
-------------------------	-----------	----------------------	------------------------------	-----------------------------	-----------------------	--

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Shipped via FedEx

Type of Ice Used: **Wet Blue Dry None**

Packing Material Used:

Radchem sample(s) screened (<500 cpm): **Y N NA**

Received by/Company: (Signature) *Novac*

Received by/Company: (Signature)

Received by/Company: (Signature)

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Lab Tracking #:

Samples received via:

FEDEX UPS Client Courier Pace Courier

Table #: **1-23-240955**

Accnum: _____

Template: _____

Prelogin: _____

Lab Sample Temperature Info:

Temp Blank Received: **Y N NA**

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ °C

Cooler 1 Therm Corr. Factor: _____ °C

Cooler 1 Corrected Temp: **2.6** °C

Comments:

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: 3 of 3

Pace

WO#: 35855470
 PM: JSB Due Date: 02/08/24
 CLIENT: DEELAB

Project # _____
 Project Manager: _____
 Client: _____

Date and Initials of person: _____
 Examining contents: _____
 Label: _____
 Deliver: TSI
 pH: _____
 Initials: NPI

Thermometer Used: T-414 Date: 1-23-24 Time: 0958

State of Origin: _____ For WV projects, all containers verified to ≤6 °C
 Cooler #1 Temp. °C 0.6 (Visual) 0.0 (Correction Factor) 0.6 (Actual)
 Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2700 7099 0641

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)
 Shorted Date: _____ Shorted Time: _____
 Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sufficient Volume.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:								
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Exceptions: Vials, Microbiology, O&G, PFAS									
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <thead> <tr> <th colspan="2">Preservation Information</th> </tr> </thead> <tbody> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </tbody> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments): SOME samples arrived first overnight and some arrived later on the FedEx express truck later on. The two SCURBS reflect the different dropoffs

Pace

Sample Condition Upon Receipt Form (SCUR)
WO#: 35855470
 PM: JSB Due Date: 02/08/24
 CLIENT: DEELAB

Project #
 Project Manager:
 Client:

Date and Initials of person:
 Examining contents:
 Label: JS/
 Deliver:
 pH:
 Initials: EASI

Thermometer Used: T-408 Date: 1/23/24 Time: 1114

State of Origin: _____
 For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 13.4 (Visual) 0 (Correction Factor) 13.4 (Actual)
 Cooler #2 Temp.°C 14.4 (Visual) _____ (Correction Factor) 14.4 (Actual)
 Cooler #3 Temp.°C 18.8 (Visual) _____ (Correction Factor) 18.8 (Actual)
 Cooler #4 Temp.°C 15.2 (Visual) _____ (Correction Factor) 15.2 (Actual)
 Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other:
 Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:
 Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2700 7049 8752
 Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other:

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type:

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments:							
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
All containers needing preservation are found to be in compliance with EPA recommendation: <small>Exceptions: Vials, Microbiology, O&G, PFAS</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
	<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>	Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____
Preservation Information								
Preservative: _____	Date: _____							
Lot / Trace: _____	Time: _____							
Amount added (mL): _____	Initials: _____							
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A							
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A							

Comments / Resolutions (use back for additional comments):



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

March 13, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven Monitoring Wells

Enclosed are the results of analyses for samples received by the laboratory on 1/9/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24A032-01	R1T6 (MWD-1-6)	Groundwater	01/10/2024 13:16	01/11/2024 08:05
K24A032-02	R2T1 (MWB-2-1)	Groundwater	01/08/2024 14:48	01/09/2024 08:40
K24A032-03	R3T7 (MWI-3-7)	Groundwater	01/10/2024 11:19	01/11/2024 08:05
K24A032-04	R4T5B (MWI-4-5)	Groundwater	01/08/2024 11:55	01/09/2024 08:40
K24A032-05	R6T1B (MWD-6-1)	Groundwater	01/08/2024 09:51	01/09/2024 08:40
K24A032-06	R6T4B (MWI-6-4)	Groundwater	01/10/2024 08:52	01/11/2024 08:05
K24A032-07	R6T8B (MWI-6-8)	Groundwater	01/17/2024 11:35	01/17/2024 14:19
K24A032-08	R6T12 (MWD-6-12)	Groundwater	01/18/2024 08:17	01/18/2024 14:45
K24A032-09	R8T10 (MWC-8-10)	Groundwater	01/18/2024 10:27	01/18/2024 14:45
K24A032-10	R9T5B (MWI-9-5)	Groundwater	01/10/2024 14:44	01/11/2024 08:05
K24A032-11	R10T8 (MWC-10-8)	Groundwater	01/18/2024 13:21	01/18/2024 14:45
K24A032-12	R11T4B (MWC-11-4)	Groundwater	01/18/2024 12:24	01/18/2024 14:45
K24A032-13	DEEP-1 (MWC-DEEP)	Groundwater	01/17/2024 12:35	01/17/2024 14:19
K24A032-14	EBLANK1	Water	01/10/2024 15:12	01/11/2024 08:05
K24A032-15	BARNSTEAD	Water	01/08/2024 07:36	01/09/2024 08:40



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

R4T5B (MWI-4-5)
K24A032-04 (Groundwater, Grab)
Collected: 01/08/2024 11:55 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
---------	--------	------	-----	-----	-------	-----	----------	----------	--------

Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	103		5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.7	I	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	10.3		0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	92.4		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	18200		42.0	168	ug/L	10	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	28.0		0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	113		1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	0.34	I	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	7.08		0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	80.1		0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	3.1	I	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Color	120		25	100	Color Units	5	01/09/2024	01/09/2024	SM 2120B
Total Dissolved Solids	437		10	40	mg/L	1	01/11/2024	01/11/2024	SM 2540C
TSS		1 U	1	4	mg/L	1	01/10/2024	01/10/2024	SM 2540D



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

R6T4B (MWI-6-4)
K24A032-06 (Groundwater, Grab)
Collected: 01/10/2024 8:52 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	60.6		5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	14.2		0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	38.9		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	591		4.2	16.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	5.41		0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	24.7		1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.9	I	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	1.50		0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	26.2		0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	73.5		0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	10.7	I	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Color	36		5	20	Color Units	1	01/11/2024	01/11/2024	SM 2120B
Total Dissolved Solids	203		10	40	mg/L	1	01/11/2024	01/11/2024	SM 2540C
TSS	1	U	1	4	mg/L	1	01/11/2024	01/11/2024	SM 2540D



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

EBLANK1

K24A032-14 (Water, Grab)

Collected: 01/10/2024 3:12 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Aluminum	5.0	U	5.0	20.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Iron	4.2	U	4.2	16.8	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Magnesium	0.01	U	0.01	0.04	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Manganese	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Potassium	0.10	U	0.10	0.40	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Silver	0.60	U	0.60	2.40	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Sodium	0.20	U	0.20	0.80	mg/L	1	01/23/2024	02/07/2024	EPA 200.7
Strontium	0.30	U	0.30	1.20	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/23/2024	02/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/31/2024	01/31/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7

Blank (B24A149-BLK1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Vanadium	3.0U		3.0	12.0	ug/L						
Sodium	0.20U		0.20	0.80	mg/L						
Manganese	1.0U		1.0	4.0	ug/L						
Selenium	4.0U		4.0	16.0	ug/L						
Molybdenum	2.5U		2.5	10.0	ug/L						
Lead	3.0U		3.0	12.0	ug/L						
Iron	4.2U		4.2	16.8	ug/L						
Nickel	1.0U		1.0	4.0	ug/L						
Copper	1.5U		1.5	6.0	ug/L						
Potassium	0.10U		0.10	0.40	mg/L						
Magnesium	0.01U		0.01	0.04	mg/L						
Aluminum	5.0U		5.0	20.0	ug/L						
Silver	0.60U		0.60	2.40	ug/L						
Strontium	0.30U		0.30	1.20	ug/L						
Beryllium	0.10U		0.10	0.40	ug/L						
Cadmium	0.30U		0.30	1.20	ug/L						
Zinc	2.1U		2.1	8.4	ug/L						
Cobalt	1.0U		1.0	4.0	ug/L						
Barium	0.20U		0.20	0.80	ug/L						
Calcium	0.10U		0.10	0.40	mg/L						
Arsenic	2.5U		2.5	10.0	ug/L						
Chromium	1.2U		1.2	4.8	ug/L						

LCS (B24A149-BS1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Cobalt	98.3				ug/L	100		98.3	90-110		
Copper	98.2				ug/L	100		98.2	90-110		
Chromium	97.0				ug/L	100		97.0	90-110		
Calcium	24.0				mg/L	25.2		95.2	90-110		
Arsenic	101				ug/L	100		101	90-110		
Barium	96.9				ug/L	100		96.9	90-110		
Cadmium	99.1				ug/L	100		99.1	90-110		
Lead	99.1				ug/L	100		99.1	90-110		
Sodium	24.0				mg/L	25.1		95.5	90-110		
Aluminum	99.8				ug/L	100		99.8	90-110		
Iron	95.9				ug/L	100		95.9	90-110		
Strontium	94.4				ug/L	100		94.4	90-110		
Silver	51.4				ug/L	49.9		103	90-110		
Manganese	97.3				ug/L	100		97.3	90-110		
Selenium	93.6				ug/L	100		93.6	90-110		
Molybdenum	100				ug/L	100		100	90-110		
Zinc	98.0				ug/L	100		98.0	90-110		
Magnesium	24.4				mg/L	25.1		97.3	90-110		
Potassium	12.0				mg/L	12.6		95.3	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

LCS (B24A149-BS1)

Prepared: 1/23/2024 Analyzed: 2/7/2024

Beryllium	101				ug/L	100		101	90-110		
Vanadium	97.0				ug/L	100		97.0	90-110		
Nickel	102				ug/L	100		102	90-110		

Duplicate (B24A149-DUP1)

Source: K24A032-02

Prepared: 1/23/2024 Analyzed: 2/7/2024

Selenium	4.0U		4.0	16.0	ug/L		ND				NR
Potassium	0.25I		0.10	0.40	mg/L		0.25				0.287
Nickel	1.1I		1.0	4.0	ug/L		1.1				2.40
Molybdenum	2.5U		2.5	10.0	ug/L		ND				66.4
Magnesium	0.56		0.01	0.04	mg/L		0.56				1.26
Aluminum	128		5.0	20.0	ug/L		127				0.392
Lead	3.0U		3.0	12.0	ug/L		ND				0.838
Iron	160		4.2	16.8	ug/L		159				0.697
Manganese	6.4		1.0	4.0	ug/L		6.3				0.758
Silver	0.60U		0.60	2.40	ug/L		ND				NR
Sodium	2.58		0.20	0.80	mg/L		2.57				0.302
Vanadium	3.0U		3.0	12.0	ug/L		ND				8.04
Arsenic	2.5U		2.5	10.0	ug/L		ND				140
Zinc	2.1I		2.1	8.4	ug/L		ND				3.44
Beryllium	0.10U		0.10	0.40	ug/L		ND				NR
Copper	1.5U		1.5	6.0	ug/L		ND				17.8
Cobalt	1.0U		1.0	4.0	ug/L		ND				16.0
Calcium	4.00		0.10	0.40	mg/L		3.96				0.729
Chromium	1.6I		1.2	4.8	ug/L		1.6				0.227
Barium	1.62		0.20	0.80	ug/L		1.59				1.28
Strontium	16.1		0.30	1.20	ug/L		15.9				0.958
Cadmium	0.30U		0.30	1.20	ug/L		ND				48.4

Duplicate (B24A149-DUP2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Lead	3.0U		3.0	12.0	ug/L		ND				NR
Sodium	25.9		0.20	0.80	mg/L		26.2				0.845
Silver	0.60U		0.60	2.40	ug/L		ND				NR
Potassium	1.45		0.10	0.40	mg/L		1.46				0.390
Zinc	2.1U		2.1	8.4	ug/L		2.3				121
Vanadium	6.4I		3.0	12.0	ug/L		6.3				1.61
Strontium	194		0.30	1.20	ug/L		193				0.498
Nickel	2.4I		1.0	4.0	ug/L		2.4				1.89
Molybdenum	12.8		2.5	10.0	ug/L		12.6				1.22
Magnesium	11.2		0.01	0.04	mg/L		11.1				0.501
Selenium	4.0U		4.0	16.0	ug/L		ND				65.3
Iron	683		4.2	16.8	ug/L		678				0.521
Arsenic	2.5U		2.5	10.0	ug/L		ND				25.6
Manganese	22.8		1.0	4.0	ug/L		24.0				3.60



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

Duplicate (B24A149-DUP2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Aluminum	13.21		5.0	20.0	ug/L		12.9			1.58	
Copper	1.5U		1.5	6.0	ug/L		ND			30.9	
Barium	1.42		0.20	0.80	ug/L		1.43			0.595	
Beryllium	0.10U		0.10	0.40	ug/L		ND			NR	
Cadmium	0.30U		0.30	1.20	ug/L		ND			NR	
Calcium	67.7		0.10	0.40	mg/L		68.0			0.290	
Chromium	1.2U		1.2	4.8	ug/L		ND			25.5	
Cobalt	1.0U		1.0	4.0	ug/L		ND			35.4	

Matrix Spike (B24A149-MS1)

Source: K24A032-02

Prepared: 1/23/2024 Analyzed: 2/7/2024

Manganese	202		1.0	4.0	ug/L	200	6.3	97.8	90-110		
Beryllium	199		0.10	0.40	ug/L	200	ND	99.7	90-110		
Nickel	209		1.0	4.0	ug/L	200	1.1	104	90-110		
Strontium	509		0.30	1.20	ug/L	500	15.9	98.7	90-110		
Sodium	27.3		0.20	0.80	mg/L	25.0	2.57	99.1	90-110		
Molybdenum	490		2.5	10.0	ug/L	500	ND	98.0	90-110		
Potassium	24.4		0.10	0.40	mg/L	25.0	0.25	96.7	90-110		
Vanadium	486		3.0	12.0	ug/L	500	ND	97.1	90-110		
Barium	489		0.20	0.80	ug/L	500	1.59	97.5	90-110		
Cobalt	203		1.0	4.0	ug/L	200	ND	102	90-110		
Zinc	195		2.1	8.4	ug/L	200	ND	97.6	90-110		
Copper	193		1.5	6.0	ug/L	200	ND	96.5	90-110		
Iron	1130		4.2	16.8	ug/L	1000	159	97.5	90-110		
Chromium	203		1.2	4.8	ug/L	200	1.6	101	90-110		
Selenium	48.7		4.0	16.0	ug/L	50.0	ND	97.3	90-110		
Aluminum	634		5.0	20.0	ug/L	500	127	101	90-110		
Calcium	28.0		0.10	0.40	mg/L	25.0	3.96	96.2	90-110		
Arsenic	197		2.5	10.0	ug/L	200	ND	98.5	90-110		
Cadmium	49.0		0.30	1.20	ug/L	50.0	ND	97.9	90-110		
Lead	199		3.0	12.0	ug/L	200	ND	99.3	90-110		
Silver	47.4		0.60	2.40	ug/L	50.0	ND	94.8	90-110		
Magnesium	25.3		0.01	0.04	mg/L	25.0	0.56	99.1	90-110		

Matrix Spike (B24A149-MS2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Calcium	93.8		0.10	0.40	mg/L	25.0	68.0	103	90-110		
Manganese	220		1.0	4.0	ug/L	200	24.0	98.1	90-110		
Cobalt	204		1.0	4.0	ug/L	200	ND	102	90-110		
Potassium	26.0		0.20	0.80	mg/L	25.0	1.46	98.3	90-110		
Selenium	47.1		4.0	16.0	ug/L	50.0	ND	94.3	90-110		
Copper	195		1.5	6.0	ug/L	200	ND	97.6	90-110		
Magnesium	36.2		0.01	0.04	mg/L	25.0	11.1	101	90-110		
Iron	1690		4.2	16.8	ug/L	1000	678	101	90-110		
Vanadium	491		3.0	12.0	ug/L	500	6.3	96.9	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A149 - EPA 200.7 (Continued)

Matrix Spike (B24A149-MS2)

Source: K24A032-03

Prepared: 1/23/2024 Analyzed: 2/7/2024

Sodium	51.0		0.20	0.80	mg/L	25.0	26.2	99.4	90-110		
Beryllium	199		0.10	0.40	ug/L	200	ND	99.6	90-110		
Nickel	212		1.0	4.0	ug/L	200	2.4	105	90-110		
Aluminum	509		5.0	20.0	ug/L	500	12.9	99.1	90-110		
Zinc	194		2.1	8.4	ug/L	200	2.3	96.0	90-110		
Arsenic	201		2.5	10.0	ug/L	200	ND	101	90-110		
Cadmium	49.0		0.30	1.20	ug/L	50.0	ND	98.0	90-110		
Chromium	202		1.2	4.8	ug/L	200	ND	101	90-110		
Silver	47.9		0.60	2.40	ug/L	50.0	ND	95.8	90-110		
Lead	196		3.0	12.0	ug/L	200	ND	98.2	90-110		
Barium	490		0.20	0.80	ug/L	500	1.43	97.7	90-110		
Strontium	688		0.30	1.20	ug/L	500	193	99.0	90-110		
Molybdenum	503		2.5	10.0	ug/L	500	12.6	98.1	90-110		

Batch B24A209 - MERCURY

Blank (B24A209-BLK1)

Prepared & Analyzed: 1/31/2024

Mercury	0.100 U		0.100	0.400	ug/L						
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LCS (B24A209-BS1)

Prepared & Analyzed: 1/31/2024

Mercury	1.99		0.100	0.400	ug/L	2.00		99.7	90-110		
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Duplicate (B24A209-DUP1)

Source: K24A032-04

Prepared & Analyzed: 1/31/2024

Mercury	0.100 U		0.100	0.400	ug/L		ND			62.3	
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Duplicate (B24A209-DUP2)

Source: K24A032-08

Prepared & Analyzed: 1/31/2024

Mercury	0.100 U		0.100	0.400	ug/L		ND			25.4	
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Matrix Spike (B24A209-MS1)

Source: K24A032-04

Prepared & Analyzed: 1/31/2024

Mercury	2.05		0.100	0.400	ug/L	2.00	ND	103	90-110		
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Matrix Spike (B24A209-MS2)

Source: K24A032-08

Prepared & Analyzed: 1/31/2024

Mercury	2.03		0.100	0.400	ug/L	2.00	ND	101	90-110		
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A060 - DEFAULT PREP - Wet Chem

Duplicate (B24A060-DUP1)		Source: K24A032-04						Prepared & Analyzed: 1/9/2024				
Color	120		25	100	Color Units		120			0.00		

Reference (B24A060-SRM1)								Prepared & Analyzed: 1/9/2024				
Color	30		5	20	Color Units	30.0		100	90-110	0.00		

Reference (B24A060-SRM2)								Prepared & Analyzed: 1/9/2024				
Color	30		5	20	Color Units	30.0		100	90-110	0.00		

Batch B24A066 - DEFAULT PREP - Wet Chem

Blank (B24A066-BLK1)								Prepared & Analyzed: 1/10/2024				
TSS	1U		1	4	mg/L							

LCS (B24A066-BS1)								Prepared & Analyzed: 1/10/2024				
TSS	96				mg/L	100		96.0	77.1-110			

Duplicate (B24A066-DUP1)		Source: K24A033-02						Prepared & Analyzed: 1/10/2024				
TSS	172		1	4	mg/L		166			2.51		

Batch B24A073 - DEFAULT PREP - Wet Chem

Duplicate (B24A073-DUP1)		Source: K24A032-01						Prepared & Analyzed: 1/11/2024				
Color	25		5	20	Color Units		25			0.00		

Reference (B24A073-SRM1)								Prepared & Analyzed: 1/11/2024				
Color	30		5	20	Color Units	30.0		100	90-110	0.00		

Reference (B24A073-SRM2)								Prepared & Analyzed: 1/11/2024				
Color	30		5	20	Color Units	30.0		100	90-110	0.00		

Batch B24A078 - DEFAULT PREP - Wet Chem

Blank (B24A078-BLK1)								Prepared & Analyzed: 1/11/2024				
TSS	1U		1	4	mg/L							



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A078 - DEFAULT PREP - Wet Chem (Continued)

LCS (B24A078-BS1)						Prepared & Analyzed: 1/11/2024					
TSS	101				mg/L	100		101	77.1-110		

Duplicate (B24A078-DUP1)						Source: K24A036-03 Prepared & Analyzed: 1/11/2024					
TSS	1 U		1	4	mg/L		ND			20.2	

Duplicate (B24A078-DUP2)						Source: K24A037-04 Prepared & Analyzed: 1/11/2024					
TSS	1 U		1	4	mg/L		ND			141	

Batch B24A081 - DEFAULT PREP - Wet Chem

Blank (B24A081-BLK1)						Prepared & Analyzed: 1/11/2024					
Total Dissolved Solids	10 U		10	40	mg/L						

Duplicate (B24A081-DUP1)						Source: K24A032-01 Prepared & Analyzed: 1/11/2024					
Total Dissolved Solids	304		10	40	mg/L		299			1.17	

Reference (B24A081-SRM1)						Prepared & Analyzed: 1/11/2024					
Total Dissolved Solids	244				mg/L	240		102	90-110		

Batch B24A111 - DEFAULT PREP - Wet Chem

Duplicate (B24A111-DUP1)						Source: K24A032-07 Prepared & Analyzed: 1/17/2024					
Color	5 U		5	20	Color Units		ND			0.00	

Reference (B24A111-SRM1)						Prepared & Analyzed: 1/17/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Reference (B24A111-SRM2)						Prepared & Analyzed: 1/17/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Batch B24A112 - DEFAULT PREP - Wet Chem

Blank (B24A112-BLK1)						Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	10 U		10	40	mg/L						



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A112 - DEFAULT PREP - Wet Chem (Continued)

Duplicate (B24A112-DUP1)		Source: K24A053-02					Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	1040		10	40	mg/L		1030			0.613		

Duplicate (B24A112-DUP2)		Source: K24A053-06					Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	195		10	40	mg/L		197			0.722		

Reference (B24A112-SRM1)							Prepared & Analyzed: 1/17/2024					
Total Dissolved Solids	238				mg/L	240		99.2	90-110			

Batch B24A116 - DEFAULT PREP - Wet Chem

Blank (B24A116-BLK1)							Prepared & Analyzed: 1/18/2024					
TSS	1 U		1	4	mg/L							

LCS (B24A116-BS1)							Prepared & Analyzed: 1/18/2024					
TSS	93				mg/L	100		93.0	77.1-110			

Duplicate (B24A116-DUP1)		Source: K24A054-04					Prepared & Analyzed: 1/18/2024					
TSS	1 U		1	4	mg/L		ND			28.3		

Batch B24A121 - DEFAULT PREP - Wet Chem

Blank (B24A121-BLK1)							Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	10 U		10	40	mg/L							

Duplicate (B24A121-DUP1)		Source: K24A032-09					Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	290		10	40	mg/L		289			0.244		

Reference (B24A121-SRM1)							Prepared & Analyzed: 1/21/2024					
Total Dissolved Solids	244				mg/L	240		102	90-110			

Batch B24A122 - DEFAULT PREP - Wet Chem

Duplicate (B24A122-DUP1)		Source: K24A032-09					Prepared & Analyzed: 1/19/2024					
Color	90		10	40	Color Units		90			0.00		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Wet Chemistry by APHA/EPA Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A122 - DEFAULT PREP - Wet Chem (Continued)

Reference (B24A122-SRM1)						Prepared & Analyzed: 1/19/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Reference (B24A122-SRM2)						Prepared & Analyzed: 1/19/2024					
Color	30		5	20	Color Units	30.0		100	90-110	0.00	

Batch B24A125 - DEFAULT PREP - Wet Chem

Blank (B24A125-BLK1)						Prepared & Analyzed: 1/19/2024					
TSS	1 U		1	4	mg/L						

LCS (B24A125-BS1)						Prepared & Analyzed: 1/19/2024					
TSS	92				mg/L	100		92.0	77.1-110		

Duplicate (B24A125-DUP1)						Source: K24A032-08 Prepared & Analyzed: 1/19/2024					
TSS	1 U		1	4	mg/L		ND			12.9	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven Monitoring Wells
Project Number: 1Q24 ENV
Project Manager: Jeff Boudreau

Reported:
03/13/2024 18:09

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653



Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 1 of 4

Project # 1Q24 ENV

Batch: ENV1Q24				Container Preservation Type										
Sample Collector(s): CD, KB				N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R2T1	GW	1/8/24 @ 1448	2	X	X	X	X	X						
1Q24-R4T5	GW	1/8/24 @ 1155	2	X	X	X	X	X						
1Q24-R6T1	GW	1/8/24 @ 0951	2	X	X	X	X	X						
1Q24-Barnstead	GW	1/8/14 @ 0736	1	X										

Sample ID
-02
-04
-05
-15

 1/9/2024 @ 0840
 Released By _____ Date/Time _____ Received By  01/09/24 0840

Released By _____ Date/Time _____ Received By _____

* Note: Samples for Color/TSS/TDS were received on ice. JUD 01/09/24

CHAIN OF CUSTODY - Analytical Request Document

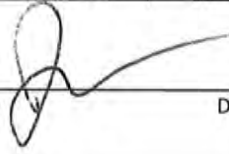

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 2 of 4
Project # 1024 ENV

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		JCD JC, KSB		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R1T6	GW	1/10/24 @ 1316	2	X	X	X	X	X						
1Q24-R3T7	GW	1/10/24 @ 1119	2	X	X	X	X	X						
1Q24-R6T4	GW	1/10/24 @ 0852	2	X	X	X	X	X						
1Q24-R9T5	GW	1/10/24 @ 1444	2	X	X	X	X	X						
1Q24-EBLK1	GW	1/10/24 @ 1512	1	X										

Sample ID
-01
-03
-06
-10
-14

Released By:  Date/Time: 1/11/24 0752 Received By:  Date/Time: 01/11/24 0805

Released By: _____ Date/Time: _____ Received By: _____

* Note: Samples for color/TSS/TDS were received on ice. JCD 01/09/24 JCD

Work Order
 # K24A032
 Page 3 of 4
 Project # 1Q24 ENV

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
 10001 NW 13th St., Gainesville, FL 32653

Preservations:
 I = Ice
 N = Nitric Acid
 S = Sulfuric Acid

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM KB		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q23-SIS-1	GW	1-11-24 / 09:23	2		X			X		X				
1Q23-SIS-2	GW	1-11-24 / 10:12	2		X			X		X				
1Q23-SIS-3	GW	1-11-24 / 11:22	2		X			X		X				
1Q23-SIS-4	GW	1-11-24 / 12:30	2		X			X		X				
1Q23-LF-1	GW	1-11-24 / 08:21	2		X			X		X				
1Q23-LF-2	GW	1-11-24 / 13:38	2		X			X		X				
1Q23-LF-3	GW	1-12-24 / 08:10	2		X			X		X				
1Q23-LF-4	GW	1-12-24 / 09:14	2		X			X		X				
1Q23-LF-5	GW	1-17-24 / 09:20	2		X			X		X				
1Q23-LF-6	GW	1-17-24 / 10:14	2		X			X		X				
1Q23-EBLANK2	GW	1-11-24 / 13:10	1		X					X				
1Q24-R6T8	GW	1-17-24 / 11:35	2	X	X	X	X	X						
1Q24-DEEP	GW	1-17-24 / 12:35	2	X	X	X	X	X						

Sample ID

-07
-13

[Signature]
 Released By

1-17-24 @ 14:19
 Date/Time

[Signature] 01/17/24 14:19
 Received By

Released By

Date/Time

Received By

* Note: Samples for Color/TSS/TDS were received on ice. JMD 01/17/24

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Work Order
#K24A032
Page 4 of 4
Project #1Q24ENV

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q24-R6T12	GW	1-18-24 / 08:17	2	X	X	X	X	X						
1Q24-R8T10	GW	1-18-24 / 10:27	2	X	X	X	X	X						
1Q24-R10T8	GW	1-18-24 / 13:21	2	X	X	X	X	X						
1Q24-R11T4	GW	1-18-24 / 12:24	2	X	X	X	X	X						

Sample ID
-08
-09
-11
-12

Released By: *[Signature]*
Date/Time: 1/18/24 @ 1445

Received By: *[Signature]*
Date/Time: 01/18/24 @ 1445

Released By: _____ Date/Time: 1/18/24 @ _____
Received By: _____

* Note: Samples for color/TSS/TDS were received on ice JUD 01/19/24



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

March 18, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 1/17/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24A053-01	SIS-1	Groundwater	01/11/2024 09:23	01/17/2024 14:19
K24A053-02	SIS-2	Groundwater	01/11/2024 10:12	01/17/2024 14:19
K24A053-03	SIS-3	Groundwater	01/11/2024 11:22	01/17/2024 14:19
K24A053-04	SIS-4	Groundwater	01/11/2024 12:30	01/17/2024 14:19
K24A053-05	LF-1	Groundwater	01/11/2024 08:21	01/17/2024 14:19
K24A053-06	LF-2	Groundwater	01/11/2024 13:38	01/17/2024 14:19
K24A053-07	LF-3	Groundwater	01/12/2024 08:10	01/17/2024 14:19
K24A053-08	LF-4	Groundwater	01/12/2024 09:14	01/17/2024 14:19
K24A053-09	LF-5	Groundwater	01/17/2024 09:20	01/17/2024 14:19
K24A053-10	LF-6	Groundwater	01/17/2024 10:14	01/17/2024 14:19
K24A053-11	EBLANK2	Groundwater	01/11/2024 13:10	01/17/2024 14:19



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-1
K24A053-01 (Groundwater, Grab)
Collected: 01/11/2024 9:23 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	18.7		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	63.2		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	303		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-2

K24A053-02 (Groundwater, Grab)

Collected: 01/11/2024 10:12 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	30.8		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	210	J(M2)	0.20	0.80	mg/L	2	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	4.8	I	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	1030		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-3
K24A053-03 (Groundwater, Grab)
Collected: 01/11/2024 11:22 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	9.15		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	41.9		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	187	Q	10	40	mg/L	1	01/21/2024	01/21/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

SIS-4
K24A053-04 (Groundwater, Grab)
Collected: 01/11/2024 12:30 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	8.52		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	50.2		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	213	Q	10	40	mg/L	1	01/21/2024	01/21/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-1

K24A053-05 (Groundwater, Grab)

Collected: 01/11/2024 8:21 am

Analyte	Result Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5 U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	180	0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10 U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30 U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	54.3	0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2 U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0 U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0 U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	21.1	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	5.6 I	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100 U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	212	10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-2
K24A053-06 (Groundwater, Grab)
Collected: 01/11/2024 1:38 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	39.2		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.14	I	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	17.0		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	4.3	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	5.0		1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	197		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-3

K24A053-07 (Groundwater, Grab)

Collected: 01/12/2024 8:10 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	50.5		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	16.0		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	6.2		1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.103	I	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	368		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-4

K24A053-08 (Groundwater, Grab)

Collected: 01/12/2024 9:14 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	29.5		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	13.9		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.1	I	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	128		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-5
K24A053-09 (Groundwater, Grab)
Collected: 01/17/2024 9:20 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	32.0		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	42.8		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	5.7		1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	14.0		2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	535		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

LF-6
K24A053-10 (Groundwater, Grab)
Collected: 01/17/2024 10:14 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	9.31		0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	30.4		0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	2.3	I	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	121		10	40	mg/L	1	01/17/2024	01/17/2024	SM 2540C
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EBLANK2
K24A053-11 (Groundwater, Grab)
Collected: 01/11/2024 1:10 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U, J(L1)	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	01/29/2024	03/07/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/29/2024	03/07/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/01/2024	02/01/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A189 - EPA 200.7

Blank (B24A189-BLK1)

Prepared: 1/29/2024 Analyzed: 3/7/2024

Lead	3.0U		3.0	12.0	ug/L						
Calcium	0.10U		0.10	0.40	mg/L						
Arsenic	2.5U		2.5	10.0	ug/L						
Chromium	1.2U		1.2	4.8	ug/L						
Beryllium	0.10U		0.10	0.40	ug/L						
Cadmium	0.30U		0.30	1.20	ug/L						
Barium	0.20U		0.20	0.80	ug/L						
Cobalt	1.0U		1.0	4.0	ug/L						
Molybdenum	2.5U		2.5	10.0	ug/L						
Selenium	4.0U		4.0	16.0	ug/L						

LCS (B24A189-BS1)

Prepared: 1/29/2024 Analyzed: 3/7/2024

Arsenic	111 J				ug/L	100		111	90-110		
Molybdenum	103				ug/L	100		103	90-110		
Cadmium	103				ug/L	100		103	90-110		
Calcium	25.5				mg/L	25.2		101	90-110		
Lead	100				ug/L	100		100	90-110		
Selenium	98.1				ug/L	100		98.1	90-110		
Beryllium	104				ug/L	100		104	90-110		
Cobalt	102				ug/L	100		102	90-110		
Barium	100				ug/L	100		100	90-110		
Chromium	101				ug/L	100		101	90-110		

Duplicate (B24A189-DUP1)

Source: K24A053-02

Prepared: 1/29/2024 Analyzed: 3/7/2024

Barium	30.7		0.20	0.80	ug/L		30.8		0.207		
Beryllium	0.10U		0.10	0.40	ug/L		ND		NR		
Cadmium	0.30U		0.30	1.20	ug/L		ND		NR		
Calcium	200		0.20	0.80	mg/L		210		3.47		
Lead	3.0U		3.0	12.0	ug/L		ND		NR		
Chromium	1.2U		1.2	4.8	ug/L		ND		0.704		
Selenium	4.0U		4.0	16.0	ug/L		ND		42.5		
Molybdenum	4.61		2.5	10.0	ug/L		4.8		2.73		
Cobalt	1.0U		1.0	4.0	ug/L		ND		1.07		
Arsenic	2.5U		2.5	10.0	ug/L		ND		155		

Duplicate (B24A189-DUP2)

Source: K24A053-06

Prepared: 1/29/2024 Analyzed: 3/7/2024

Selenium	4.0U		4.0	16.0	ug/L		ND		5.24		
Molybdenum	2.5U		2.5	10.0	ug/L		ND		NR		
Lead	3.0U		3.0	12.0	ug/L		ND		NR		
Cobalt	5.4		1.0	4.0	ug/L		5.0		6.20		
Chromium	4.51		1.2	4.8	ug/L		4.3		4.45		
Calcium	16.9		0.10	0.40	mg/L		17.0		0.334		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A189 - EPA 200.7 (Continued)

Duplicate (B24A189-DUP2)	Source: K24A053-06					Prepared: 1/29/2024 Analyzed: 3/7/2024					
Beryllium	0.14 I		0.10	0.40	ug/L		0.14				0.518
Barium	39.2		0.20	0.80	ug/L		39.2				0.0433
Arsenic	2.5 U		2.5	10.0	ug/L		ND				NR
Cadmium	0.30 U		0.30	1.20	ug/L		ND				NR

Matrix Spike (B24A189-MS1)	Source: K24A053-02					Prepared: 1/29/2024 Analyzed: 3/7/2024					
Arsenic	204		2.5	10.0	ug/L	200	ND	102	90-110		
Calcium	222 J		0.30	1.20	mg/L	25.0	210	47.8	90-110		
Selenium	49.2		4.0	16.0	ug/L	50.0	ND	98.3	90-110		
Molybdenum	501		2.5	10.0	ug/L	500	4.8	99.2	90-110		
Lead	198		3.0	12.0	ug/L	200	ND	98.9	90-110		
Cobalt	207		1.0	4.0	ug/L	200	ND	103	90-110		
Chromium	207		1.2	4.8	ug/L	200	ND	104	90-110		
Cadmium	50.0		0.30	1.20	ug/L	50.0	ND	100	90-110		
Beryllium	195		0.10	0.40	ug/L	200	ND	97.4	90-110		
Barium	526		0.20	0.80	ug/L	500	30.8	99.1	90-110		

Matrix Spike (B24A189-MS2)	Source: K24A053-06					Prepared: 1/29/2024 Analyzed: 3/7/2024					
Cobalt	217		1.0	4.0	ug/L	200	5.0	106	90-110		
Selenium	51.4		4.0	16.0	ug/L	50.0	ND	103	90-110		
Beryllium	203		0.10	0.40	ug/L	200	0.14	102	90-110		
Cadmium	50.1		0.30	1.20	ug/L	50.0	ND	100	90-110		
Arsenic	202		2.5	10.0	ug/L	200	ND	101	90-110		
Molybdenum	502		2.5	10.0	ug/L	500	ND	100	90-110		
Barium	538		0.20	0.80	ug/L	500	39.2	99.7	90-110		
Chromium	219		1.2	4.8	ug/L	200	4.3	107	90-110		
Lead	205		3.0	12.0	ug/L	200	ND	103	90-110		
Calcium	41.9		0.10	0.40	mg/L	25.0	17.0	99.6	90-110		

Batch B24B001 - MERCURY

Blank (B24B001-BLK1)	Prepared & Analyzed: 2/1/2024										
Mercury	0.100 U		0.100	0.400	ug/L						

LCS (B24B001-BS1)	Prepared & Analyzed: 2/1/2024										
Mercury	1.85		0.100	0.400	ug/L	2.00		92.6	90-110		

Duplicate (B24B001-DUP1)	Source: K24A053-04					Prepared & Analyzed: 2/1/2024					
Mercury	0.100 U		0.100	0.400	ug/L		ND				17.0



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Metals by EPA 200 Series Methods - Quality Control
Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24B001 - MERCURY (Continued)

Duplicate (B24B001-DUP2)		Source: K24A053-08					Prepared & Analyzed: 2/1/2024					
Mercury	0.100	U	0.100	0.400	ug/L		ND			44.3		

Matrix Spike (B24B001-MS1)		Source: K24A053-04					Prepared & Analyzed: 2/1/2024					
Mercury	1.98		0.100	0.400	ug/L	2.00	ND	99.1	90-110			

Matrix Spike (B24B001-MS2)		Source: K24A053-08					Prepared & Analyzed: 2/1/2024					
Mercury	1.88		0.100	0.400	ug/L	2.00	ND	94.2	90-110			



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24A112 - DEFAULT PREP - Wet Chem

Blank (B24A112-BLK1)

Prepared & Analyzed: 1/17/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24A112-DUP1)

Source: K24A053-02

Prepared & Analyzed: 1/17/2024

Total Dissolved Solids 1040 10 40 mg/L 1030 0.613

Duplicate (B24A112-DUP2)

Source: K24A053-06

Prepared & Analyzed: 1/17/2024

Total Dissolved Solids 195 10 40 mg/L 197 0.722

Reference (B24A112-SRM1)

Prepared & Analyzed: 1/17/2024

Total Dissolved Solids 238 mg/L 240 99.2 90-110

Batch B24A121 - DEFAULT PREP - Wet Chem

Blank (B24A121-BLK1)

Prepared & Analyzed: 1/21/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24A121-DUP1)

Source: K24A032-09

Prepared & Analyzed: 1/21/2024

Total Dissolved Solids 290 10 40 mg/L 289 0.244

Reference (B24A121-SRM1)

Prepared & Analyzed: 1/21/2024

Total Dissolved Solids 244 mg/L 240 102 90-110



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q24 CCR
Project Manager: Jeff Boudreau

Reported:
03/18/2024 15:52

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
J	Estimated value. Quality control associated with the reported value failed to meet the established quality control criteria.
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank
J(L1)	Estimated value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. NOTE: Analyte was not detected in associated samples, so sample results are unaffected by potential high bias.
J(M2)	Estimated value. Matrix spike recovery was below QC limits, indicating a potential negative matrix interference. Batch accepted based on laboratory control sample (LCS) recovery.

Work Order
#K24A053
Page 1 of 1

Project # 1Q24 CCR

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Batch:		ENV1Q24		Container Preservation Type										
Sample Collector(s):		CD, KM ^{KB}		N	N	I	I	I	I	N	N	N	I	I
				Analysis Requested										
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Alkalinity	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mo, Se, Total Hardness)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E
1Q23-SIS-1	GW	1-11-24 / 09:23	2		X			X		X				
1Q23-SIS-2	GW	1-11-24 / 10:12	2		X			X		X				
1Q23-SIS-3	GW	1-11-24 / 11:22	2		X			X		X				
1Q23-SIS-4	GW	1-11-24 / 12:30	2		X			X		X				
1Q23-LF-1	GW	1-11-24 / 08:21	2		X			X		X				
1Q23-LF-2	GW	1-11-24 / 13:38	2		X			X		X				
1Q23-LF-3	GW	1-12-24 / 08:10	2		X			X		X				
1Q23-LF-4	GW	1-12-24 / 09:14	2		X			X		X				
1Q23-LF-5	GW	1-17-24 / 09:20	2		X			X		X				
1Q23-LF-6	GW	1-17-24 / 10:14	2		X			X		X				
1Q23-EBLANK2	GW	1-11-24 / 13:10	1		X					X				
1Q24-R6T8	GW	1-17-24 / 11:35	2	X	X	X	X	X						
1Q24-DEEP	GW	1-17-24 / 12:35	2	X	X	X	X	X						

Sample ID
-01
-02
-03
-04
-05
-06
-07
-08
-09
-10
-11

JMD
JMD

Released By: *[Signature]* Date/Time: 1-17-24 @ 14:19 Received By: *[Signature]* 01/17/24 14:19

Note Samples for TDS analysis were received on ice. JMD 01/17/24



August 14, 2024

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV3Q24
Pace Project No.: 35893092

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

The container for Gross Alpha for 3Q24-R11T4 arrived at the sub lab empty and was not tested.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV3Q24

Pace Project No.: 35893092

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV3Q24

Pace Project No.: 35893092

Pace Analytical Services Ormond Beach

Utah

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35893092001	3Q24-R1T6	Water	07/09/24 12:02	07/18/24 09:30
35893092002	3Q24-R2T1	Water	07/08/24 12:30	07/18/24 09:30
35893092003	3Q24-R3T7	Water	07/09/24 09:42	07/18/24 09:30
35893092004	3Q24-R4T5	Water	07/08/24 09:51	07/18/24 09:30
35893092005	3Q24-R6T1	Water	07/08/24 08:56	07/18/24 09:30
35893092006	3Q24-R6T4	Water	07/08/24 13:33	07/18/24 09:30
35893092007	3Q24-R6T8	Water	07/15/24 09:27	07/18/24 09:30
35893092008	3Q24-R8T10	Water	07/15/24 12:49	07/18/24 09:30
35893092009	3Q24-R9T5	Water	07/09/24 09:47	07/18/24 09:30
35893092010	3Q24-R10T8	Water	07/16/24 11:00	07/18/24 09:30
35893092011	3Q24-R11T4	Water	07/16/24 09:57	07/18/24 09:30
35893092012	3Q24-DEEP	Water	07/16/24 08:35	07/18/24 09:30
35893092013	3Q24-EBLANK1	Water	07/15/24 11:12	07/18/24 09:30
35893092014	3Q24-SIS-1	Water	07/10/24 09:17	07/18/24 09:30
35893092015	3Q24-SIS-2	Water	07/10/24 12:30	07/18/24 09:30
35893092016	3Q24-SIS-3	Water	07/10/24 10:57	07/18/24 09:30
35893092017	3Q24-SIS-4	Water	07/10/24 13:29	07/18/24 09:30
35893092018	3Q24-LF-1	Water	07/10/24 08:28	07/18/24 09:30
35893092019	3Q24-LF-2	Water	07/11/24 08:36	07/18/24 09:30
35893092020	3Q24-LF-3	Water	07/11/24 09:47	07/18/24 09:30
35893092021	3Q24-LF-4	Water	07/11/24 10:50	07/18/24 09:30
35893092022	3Q24-LF-5	Water	07/11/24 11:54	07/18/24 09:30
35893092023	3Q24-LF-6	Water	07/11/24 13:17	07/18/24 09:30
35893092024	3Q24-EBLANK2	Water	07/11/24 09:18	07/18/24 09:30
35893092025	3Q24-Barnstead	Water	07/08/24 07:01	07/18/24 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092001	3Q24-R1T6	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092002	3Q24-R2T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092003	3Q24-R3T7	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092004	3Q24-R4T5	EPA 6020B	CRW, KRL	4	PASI-A
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
		SM 5310B	JH	1	PASI-O
35893092005	3Q24-R6T1	SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092006	3Q24-R6T4	EPA 6020B	CRW, KRL	4	PASI-A
		SM 7110C-2000	KET	1	PASI-PA
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092007	3Q24-R6T8	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092008	3Q24-R8T10	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092009	3Q24-R9T5	SM 5310B	JH	1	PASI-O
		SM 7110C-2000	KET	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092010	3Q24-R10T8	SM 5310B	JH	1	PASI-O
		SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35893092011	3Q24-R11T4	SM 5310B	JH	1	PASI-O
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092012	3Q24-DEEP	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092013	3Q24-EBLANK1	SM 7110C-2000	REH1	1	PASI-PA
		EPA 300.0	EAD	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
		SM 5310B	JH	1	PASI-O
35893092014	3Q24-SIS-1	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35893092015	3Q24-SIS-2	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35893092016	3Q24-SIS-3	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35893092017	3Q24-SIS-4	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q24
Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092018	3Q24-LF-1	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB, EAD	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
35893092019	3Q24-LF-2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35893092020	3Q24-LF-3	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35893092021	3Q24-LF-4	EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
35893092022	3Q24-LF-5	EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
35893092023	3Q24-LF-6	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB, EAD	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
35893092024	3Q24-EBLANK2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 903.1	DMC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV3Q24
Pace Project No.: 35893092

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35893092025	3Q24-Barnstead	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	CRW, KRL	4	PASI-A
		EPA 300.0	CMB	3	PASI-O

PASI-A = Pace Analytical Services - Asheville
PASI-O = Pace Analytical Services - Ormond Beach
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-1 **Lab ID: 35893092018** Collected: 07/10/24 08:28 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.22 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 17:56	7440-36-0	
Boron	85.7	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 14:53	7440-42-8	
Lithium	3.1	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 17:56	7439-93-2	
Thallium	0.036 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 17:56	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	20.3	mg/L	5.0	2.5	1		08/01/24 23:01	16887-00-6	
Fluoride	0.054	mg/L	0.050	0.015	1		08/01/24 23:01	16984-48-8	
Sulfate	10.7	mg/L	5.0	2.5	1		08/01/24 23:01	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-2 Lab ID: 35893092019 Collected: 07/11/24 08:36 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:24	7440-36-0	
Boron	39.3 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 14:57	7440-42-8	
Lithium	1.7 I	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:24	7439-93-2	
Thallium	0.030 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:24	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	42.7	mg/L	5.0	2.5	1		08/02/24 00:05	16887-00-6	
Fluoride	0.28	mg/L	0.050	0.015	1		08/02/24 00:05	16984-48-8	
Sulfate	14.5	mg/L	5.0	2.5	1		08/02/24 00:05	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-3 Lab ID: 35893092020 Collected: 07/11/24 09:47 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:32	7440-36-0	
Boron	2150	ug/L	1000	150	20	07/24/24 12:35	07/25/24 15:01	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:32	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:32	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	15.0	mg/L	5.0	2.5	1		08/02/24 00:27	16887-00-6	
Fluoride	0.037 I	mg/L	0.050	0.015	1		08/02/24 00:27	16984-48-8	
Sulfate	61.4	mg/L	5.0	2.5	1		08/02/24 00:27	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-4 **Lab ID: 35893092021** Collected: 07/11/24 10:50 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.10 U	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:35	7440-36-0	
Boron	309	ug/L	150	22.5	3	07/24/24 12:35	07/25/24 15:04	7440-42-8	
Lithium	13.0	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:35	7439-93-2	
Thallium	0.046 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:35	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	13.5	mg/L	5.0	2.5	1		08/02/24 00:48	16887-00-6	
Fluoride	0.058	mg/L	0.050	0.015	1		08/02/24 00:48	16984-48-8	
Sulfate	36.4	mg/L	5.0	2.5	1		08/02/24 00:48	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-5 **Lab ID: 35893092022** Collected: 07/11/24 11:54 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.22 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:39	7440-36-0	
Boron	1320	ug/L	500	74.9	10	07/24/24 12:35	07/25/24 15:08	7440-42-8	
Lithium	3.0	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:39	7439-93-2	
Thallium	0.10 I	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:39	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	42.2	mg/L	25.0	12.5	5		08/02/24 01:10	16887-00-6	
Fluoride	0.092 I	mg/L	0.10	0.029	2		08/04/24 18:32	16984-48-8	D3
Sulfate	533	mg/L	50.0	25.0	10		08/05/24 09:34	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-6 Lab ID: 35893092023 Collected: 07/11/24 13:17 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.27 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:43	7440-36-0	
Boron	46.3 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 15:12	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:43	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:43	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	3.9 I	mg/L	5.0	2.5	1		08/02/24 01:31	16887-00-6	
Fluoride	0.049 I	mg/L	0.050	0.015	1		08/02/24 01:31	16984-48-8	
Sulfate	14.5	mg/L	5.0	2.5	1		08/02/24 01:31	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-EBLANK2 Lab ID: 35893092024 Collected: 07/11/24 09:18 Received: 07/18/24 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Asheville									
Antimony	0.13 I	ug/L	1.0	0.10	1	07/24/24 12:35	07/24/24 18:28	7440-36-0	
Boron	11.0 I	ug/L	50.0	7.5	1	07/24/24 12:35	07/25/24 15:16	7440-42-8	
Lithium	0.33 U	ug/L	2.5	0.33	1	07/24/24 12:35	07/24/24 18:28	7439-93-2	
Thallium	0.028 U	ug/L	0.20	0.028	1	07/24/24 12:35	07/24/24 18:28	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		08/02/24 01:53	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		08/02/24 01:53	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		08/02/24 01:53	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	870559	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

METHOD BLANK:	4486138	Matrix:	Water
Associated Lab Samples:	35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.10 U	1.0	0.10	07/24/24 17:21	
Boron	ug/L	7.5 U	50.0	7.5	07/24/24 21:24	
Lithium	ug/L	0.33 U	2.5	0.33	07/24/24 17:21	
Thallium	ug/L	0.028 U	0.20	0.028	07/24/24 17:21	

LABORATORY CONTROL SAMPLE: 4486139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	53.2	106	80-120	
Boron	ug/L	50	47.6 I	95	80-120	
Lithium	ug/L	50	50.9	102	80-120	
Thallium	ug/L	25	25.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4486140 4486141

Parameter	Units	35893092025		4486141		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	ug/L	0.12 I	50	50	52.1	51.9	104	103	75-125	0	20
Boron	ug/L	7.5 U	50	50	48.2 I	50.1	94	98	75-125		20
Lithium	ug/L	0.33 U	50	50	50.7	49.8	101	99	75-125	2	20
Thallium	ug/L	0.028 U	25	25	26.0	25.7	104	103	75-125	1	20

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1030040	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092001, 35893092002, 35893092003

METHOD BLANK: 5660185 Matrix: Water

Associated Lab Samples: 35893092001, 35893092002, 35893092003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	07/31/24 04:18	
Sulfate	mg/L	2.5 U	5.0	2.5	07/31/24 04:18	

LABORATORY CONTROL SAMPLE: 5660186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.9	94	90-110	
Sulfate	mg/L	50	46.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662425 5662426

Parameter	Units	35894517001		5662425		5662426		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Chloride	mg/L	29.3	50	50	83.1	84.4	108	110	90-110	2	20
Sulfate	mg/L	14.1	50	50	64.0	65.4	100	102	90-110	2	20

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1030051	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092004, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013, 35893092014, 35893092015		

METHOD BLANK:	5660225	Matrix:	Water
Associated Lab Samples:	35893092004, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013, 35893092014, 35893092015		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	07/30/24 17:04	
Fluoride	mg/L	0.015 U	0.050	0.015	07/30/24 17:04	
Sulfate	mg/L	2.5 U	5.0	2.5	07/30/24 17:04	

LABORATORY CONTROL SAMPLE: 5660226						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662692												5662693	
Parameter	Units	35893977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	38.4	50	50	91.1	92.0	105	107	90-110	1	20		
Fluoride	mg/L	0.45	5	5	5.8	5.9	106	108	90-110	2	20		
Sulfate	mg/L	2.5 U	50	50	48.0	49.1	92	94	90-110	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5662694												5662695	
Parameter	Units	35893092007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	10.4	50	50	59.2	60.0	98	99	90-110	1	20		
Fluoride	mg/L	0.42	5	5	5.6	5.7	104	106	90-110	1	20		
Sulfate	mg/L	2.5 U	50	50	47.4	48.2	91	92	90-110	2	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1030743	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

METHOD BLANK:	5663653	Matrix:	Water
Associated Lab Samples:	35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024, 35893092025		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/01/24 16:56	
Fluoride	mg/L	0.015 U	0.050	0.015	08/01/24 16:56	
Sulfate	mg/L	2.5 U	5.0	2.5	08/01/24 16:56	

LABORATORY CONTROL SAMPLE: 5663654						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	5	5.1	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5665498												5665499	
Parameter	Units	35893892010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	60.5	50	50	116	117	112	113	90-110	1	20	J(M1), L	
Fluoride	mg/L	0.17	5	5	5.3	5.4	103	104	90-110	1	20		
Sulfate	mg/L	2.5 U	50	50	48.9	49.4	94	95	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5665500												5665501	
Parameter	Units	35893092018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	20.3	50	50	71.0	71.7	101	103	90-110	1	20		
Fluoride	mg/L	0.054	5	5	5.0	5.0	98	100	90-110	2	20		
Sulfate	mg/L	10.7	50	50	58.3	58.9	95	97	90-110	1	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 1031345

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092017, 35893092022

METHOD BLANK: 5667364

Matrix: Water

Associated Lab Samples: 35893092017, 35893092022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	0.015 U	0.050	0.015	08/04/24 17:07	
Sulfate	mg/L	2.5 U	5.0	2.5	08/04/24 17:07	

LABORATORY CONTROL SAMPLE: 5667365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	50	45.6	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5667681 5667682

Parameter	Units	35894132001		5667681		5667682		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Fluoride	mg/L	ND	5	5	4.9	4.9	97	97	90-110	0	20	
Sulfate	mg/L	26.4	50	50	74.8	74.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5667683 5667684

Parameter	Units	35894143001		5667683		5667684		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Fluoride	mg/L	0.056	5	5	5.0	5.0	98	98	90-110	0	20	
Sulfate	mg/L	7.1	50	50	53.0	52.8	92	91	90-110	0	20	

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1029654	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010		

METHOD BLANK:	5658752	Matrix:	Water
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092005, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	07/28/24 20:38	

LABORATORY CONTROL SAMPLE: 5658753						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5658755												5658754	
Parameter	Units	35894304005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.67	2	2	2.7	2.7	101	100	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5658757												5658756	
Parameter	Units	35894469006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, NO2 plus NO3	mg/L	0.17	2	2	2.2	2.1	102	96	90-110	6	20		

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1029980	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35893092011, 35893092012, 35893092013

METHOD BLANK: 5659995 Matrix: Water
 Associated Lab Samples: 35893092011, 35893092012, 35893092013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	07/30/24 09:08	

LABORATORY CONTROL SAMPLE: 5659996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5659998 5659997

Parameter	Units	35893092011		5659997		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.015 U	2	2	1.5	1.4	73	71	90-110	3	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5660000 5659999

Parameter	Units	35893673002		5659999		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Nitrogen, NO2 plus NO3	mg/L	0.75 U	100	100	65.3	64.7	65	64	90-110	1	20	J(M1)

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QUALITY CONTROL DATA

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	1028286	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092004, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013		

METHOD BLANK:	5651552	Matrix:	Water
Associated Lab Samples:	35893092001, 35893092002, 35893092003, 35893092004, 35893092006, 35893092007, 35893092008, 35893092009, 35893092010, 35893092011, 35893092012, 35893092013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	07/24/24 01:29	

LABORATORY CONTROL SAMPLE & LCSD: 5651553		5651554								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	20	18.8	19.4	94	97	90-110	3	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-1 Lab ID: 35893092018 Collected: 07/10/24 08:28 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.953U ± 0.620 (0.953) C:NA T:94%	pCi/L	08/07/24 14:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.28 ± 0.520 (0.854) C:83% T:88%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.04 ± 1.14 (1.81)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-2 Lab ID: 35893092019 Collected: 07/11/24 08:36 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.31U ± 0.636 (1.31) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.804U ± 0.365 (0.804) C:75% T:91%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.11U ± 1.00 (2.11)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-3 Lab ID: 35893092020 Collected: 07/11/24 09:47 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.03U ± 0.652 (1.03) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.933 ± 0.424 (0.689) C:75% T:87%	pCi/L	08/07/24 15:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.72U ± 1.08 (1.72)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-4 Lab ID: 35893092021 Collected: 07/11/24 10:50 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.799U ± 0.523 (0.799) C:NA T:93%	pCi/L	08/07/24 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.596U ± 0.329 (0.596) C:79% T:91%	pCi/L	08/07/24 15:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.40U ± 0.852 (1.40)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: 3Q24-LF-5 Lab ID: 35893092022 Collected: 07/11/24 11:54 Received: 07/18/24 09:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	7.33 ± 1.46 (0.783) C:NA T:98%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	5.13 ± 1.14 (0.729) C:73% T:91%	pCi/L	08/07/24 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	12.5 ± 2.60 (1.51)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-LF-6 **Lab ID: 35893092023** Collected: 07/11/24 13:17 Received: 07/18/24 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.794U ± 0.455 (0.794) C:NA T:97%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.642U ± 0.292 (0.642) C:81% T:91%	pCi/L	08/07/24 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44U ± 0.747 (1.44)	pCi/L	08/08/24 15:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

Sample: 3Q24-EBLANK2 **Lab ID: 35893092024** Collected: 07/11/24 09:18 Received: 07/18/24 09:30 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.13U ± 0.695 (1.13) C:NA T:96%	pCi/L	08/07/24 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.864U ± 0.373 (0.864) C:82% T:90%	pCi/L	08/07/24 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.99U ± 1.07 (1.99)	pCi/L	08/08/24 15:55	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	684093	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

METHOD BLANK:	3330489	Matrix:	Water
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Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0713 ± 0.221 (0.428) C:NA T:95%	pCi/L	08/07/24 14:43	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 685616

Analysis Method: SM 7110C-2000

QC Batch Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092002, 35893092003, 35893092004, 35893092005, 35893092006, 35893092009

METHOD BLANK: 3337849

Matrix: Water

Associated Lab Samples: 35893092002, 35893092003, 35893092004, 35893092005, 35893092006, 35893092009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.257 ± 0.952 (2.37) C:NA T:NA	pCi/L	08/02/24 08:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch:	684094	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

METHOD BLANK:	3330492	Matrix:	Water
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Associated Lab Samples: 35893092004, 35893092006, 35893092014, 35893092015, 35893092016, 35893092017, 35893092018, 35893092019, 35893092020, 35893092021, 35893092022, 35893092023, 35893092024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.610 ± 0.376 (0.694) C:78% T:87%	pCi/L	08/07/24 15:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q24

Pace Project No.: 35893092

QC Batch: 685617

Analysis Method: SM 7110C-2000

QC Batch Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 35893092001, 35893092007, 35893092008, 35893092010, 35893092012, 35893092013

METHOD BLANK: 3337850

Matrix: Water

Associated Lab Samples: 35893092001, 35893092007, 35893092008, 35893092010, 35893092012, 35893092013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.518 ± 0.661 (2.22) C:NA T:NA	pCi/L	08/06/24 08:23	

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QUALIFIERS

Project: ENV3Q24

Pace Project No.: 35893092

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Y The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092004	3Q24-R4T5	EPA 3010A	870559	EPA 6020B	870701
35893092006	3Q24-R6T4	EPA 3010A	870559	EPA 6020B	870701
35893092014	3Q24-SIS-1	EPA 3010A	870559	EPA 6020B	870701
35893092015	3Q24-SIS-2	EPA 3010A	870559	EPA 6020B	870701
35893092016	3Q24-SIS-3	EPA 3010A	870559	EPA 6020B	870701
35893092017	3Q24-SIS-4	EPA 3010A	870559	EPA 6020B	870701
35893092018	3Q24-LF-1	EPA 3010A	870559	EPA 6020B	870701
35893092019	3Q24-LF-2	EPA 3010A	870559	EPA 6020B	870701
35893092020	3Q24-LF-3	EPA 3010A	870559	EPA 6020B	870701
35893092021	3Q24-LF-4	EPA 3010A	870559	EPA 6020B	870701
35893092022	3Q24-LF-5	EPA 3010A	870559	EPA 6020B	870701
35893092023	3Q24-LF-6	EPA 3010A	870559	EPA 6020B	870701
35893092024	3Q24-EBLANK2	EPA 3010A	870559	EPA 6020B	870701
35893092025	3Q24-Barnstead	EPA 3010A	870559	EPA 6020B	870701
35893092001	3Q24-R1T6	SM 7110C-2000	685617		
35893092002	3Q24-R2T1	SM 7110C-2000	685616		
35893092003	3Q24-R3T7	SM 7110C-2000	685616		
35893092004	3Q24-R4T5	SM 7110C-2000	685616		
35893092005	3Q24-R6T1	SM 7110C-2000	685616		
35893092006	3Q24-R6T4	SM 7110C-2000	685616		
35893092007	3Q24-R6T8	SM 7110C-2000	685617		
35893092008	3Q24-R8T10	SM 7110C-2000	685617		
35893092009	3Q24-R9T5	SM 7110C-2000	685616		
35893092010	3Q24-R10T8	SM 7110C-2000	685617		
35893092012	3Q24-DEEP	SM 7110C-2000	685617		
35893092013	3Q24-EBLANK1	SM 7110C-2000	685617		
35893092004	3Q24-R4T5	EPA 903.1	684093		
35893092006	3Q24-R6T4	EPA 903.1	684093		
35893092014	3Q24-SIS-1	EPA 903.1	684093		
35893092015	3Q24-SIS-2	EPA 903.1	684093		
35893092016	3Q24-SIS-3	EPA 903.1	684093		
35893092017	3Q24-SIS-4	EPA 903.1	684093		
35893092018	3Q24-LF-1	EPA 903.1	684093		
35893092019	3Q24-LF-2	EPA 903.1	684093		
35893092020	3Q24-LF-3	EPA 903.1	684093		
35893092021	3Q24-LF-4	EPA 903.1	684093		
35893092022	3Q24-LF-5	EPA 903.1	684093		
35893092023	3Q24-LF-6	EPA 903.1	684093		
35893092024	3Q24-EBLANK2	EPA 903.1	684093		
35893092004	3Q24-R4T5	EPA 904.0	684094		
35893092006	3Q24-R6T4	EPA 904.0	684094		
35893092014	3Q24-SIS-1	EPA 904.0	684094		
35893092015	3Q24-SIS-2	EPA 904.0	684094		
35893092016	3Q24-SIS-3	EPA 904.0	684094		
35893092017	3Q24-SIS-4	EPA 904.0	684094		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092018	3Q24-LF-1	EPA 904.0	684094		
35893092019	3Q24-LF-2	EPA 904.0	684094		
35893092020	3Q24-LF-3	EPA 904.0	684094		
35893092021	3Q24-LF-4	EPA 904.0	684094		
35893092022	3Q24-LF-5	EPA 904.0	684094		
35893092023	3Q24-LF-6	EPA 904.0	684094		
35893092024	3Q24-EBLANK2	EPA 904.0	684094		
35893092004	3Q24-R4T5	Total Radium Calculation	688216		
35893092006	3Q24-R6T4	Total Radium Calculation	688216		
35893092014	3Q24-SIS-1	Total Radium Calculation	688216		
35893092015	3Q24-SIS-2	Total Radium Calculation	689204		
35893092016	3Q24-SIS-3	Total Radium Calculation	688216		
35893092017	3Q24-SIS-4	Total Radium Calculation	688216		
35893092018	3Q24-LF-1	Total Radium Calculation	688216		
35893092019	3Q24-LF-2	Total Radium Calculation	688216		
35893092020	3Q24-LF-3	Total Radium Calculation	688216		
35893092021	3Q24-LF-4	Total Radium Calculation	688216		
35893092022	3Q24-LF-5	Total Radium Calculation	688216		
35893092023	3Q24-LF-6	Total Radium Calculation	688216		
35893092024	3Q24-EBLANK2	Total Radium Calculation	688216		
35893092001	3Q24-R1T6	EPA 300.0	1030040		
35893092002	3Q24-R2T1	EPA 300.0	1030040		
35893092003	3Q24-R3T7	EPA 300.0	1030040		
35893092004	3Q24-R4T5	EPA 300.0	1030051		
35893092005	3Q24-R6T1	EPA 300.0	1030051		
35893092006	3Q24-R6T4	EPA 300.0	1030051		
35893092007	3Q24-R6T8	EPA 300.0	1030051		
35893092008	3Q24-R8T10	EPA 300.0	1030051		
35893092009	3Q24-R9T5	EPA 300.0	1030051		
35893092010	3Q24-R10T8	EPA 300.0	1030051		
35893092011	3Q24-R11T4	EPA 300.0	1030051		
35893092012	3Q24-DEEP	EPA 300.0	1030051		
35893092013	3Q24-EBLANK1	EPA 300.0	1030051		
35893092014	3Q24-SIS-1	EPA 300.0	1030051		
35893092015	3Q24-SIS-2	EPA 300.0	1030051		
35893092016	3Q24-SIS-3	EPA 300.0	1030743		
35893092017	3Q24-SIS-4	EPA 300.0	1030743		
35893092017	3Q24-SIS-4	EPA 300.0	1031345		
35893092018	3Q24-LF-1	EPA 300.0	1030743		
35893092019	3Q24-LF-2	EPA 300.0	1030743		
35893092020	3Q24-LF-3	EPA 300.0	1030743		
35893092021	3Q24-LF-4	EPA 300.0	1030743		
35893092022	3Q24-LF-5	EPA 300.0	1030743		
35893092022	3Q24-LF-5	EPA 300.0	1031345		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q24

Pace Project No.: 35893092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35893092023	3Q24-LF-6	EPA 300.0	1030743		
35893092024	3Q24-EBLANK2	EPA 300.0	1030743		
35893092025	3Q24-Barnstead	EPA 300.0	1030743		
35893092001	3Q24-R1T6	EPA 353.2	1029654		
35893092002	3Q24-R2T1	EPA 353.2	1029654		
35893092003	3Q24-R3T7	EPA 353.2	1029654		
35893092005	3Q24-R6T1	EPA 353.2	1029654		
35893092006	3Q24-R6T4	EPA 353.2	1029654		
35893092007	3Q24-R6T8	EPA 353.2	1029654		
35893092008	3Q24-R8T10	EPA 353.2	1029654		
35893092009	3Q24-R9T5	EPA 353.2	1029654		
35893092010	3Q24-R10T8	EPA 353.2	1029654		
35893092011	3Q24-R11T4	EPA 353.2	1029980		
35893092012	3Q24-DEEP	EPA 353.2	1029980		
35893092013	3Q24-EBLANK1	EPA 353.2	1029980		
35893092001	3Q24-R1T6	SM 5310B	1028286		
35893092002	3Q24-R2T1	SM 5310B	1028286		
35893092003	3Q24-R3T7	SM 5310B	1028286		
35893092004	3Q24-R4T5	SM 5310B	1028286		
35893092006	3Q24-R6T4	SM 5310B	1028286		
35893092007	3Q24-R6T8	SM 5310B	1028286		
35893092008	3Q24-R8T10	SM 5310B	1028286		
35893092009	3Q24-R9T5	SM 5310B	1028286		
35893092010	3Q24-R10T8	SM 5310B	1028286		
35893092011	3Q24-R11T4	SM 5310B	1028286		
35893092012	3Q24-DEEP	SM 5310B	1028286		
35893092013	3Q24-EBLANK1	SM 5310B	1028286		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJLL Log-in Number Here

Company: Gainesville Regional Utilities

Address: 10001 NW 13th St, Gainesville, FL 32653

Report To: Jeff Boudreau

Copy To:

Billing information: PO#4510060812

Email To: boudreaujp@gru.com

Site Collection Info/Address: Deerhaven Generating Station

State: FL / Gainesville

County/City: FL / Gainesville

Time Zone Collected: [] PT [] MT [] CT [] ET

Customer Project Name/Number: ENV3Q24

Phone: 352-393-6346

Email: boudreaujp@gru.com

Collected By (print):

Collected By (signature):

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:

Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)

Turnaround Date Required: Normal

Compliance Monitoring: [] Yes [] No

DW PWS ID #: [] Yes [] No

DW Location Code: [] Yes [] No

Immediately Packed on Ice: [] Yes [] No

Field Filtered (if applicable): [] Yes [] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

ICE 2 2 1 1 ICE 1 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other.

Lab Project Manager:

Analyses

Lab Profile/Line:

Analyses	Lab Profile/Line:
300.0 IC Anions (Cl, SO4)	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA
353.2 Nitrogen, NO2/NO3	LAB USE ONLY: Lab Sample # / Comments:
5310B TOC	
Gross Alpha by 7110C	
200.7 ICP Metals (Na, K)	
300.0 IC Anions (Cl, SO4, F)	
6020 Metals (Sb, TI, B, Li)	
Sum of Radium 226+228	

Customer Remarks / Special Conditions / Possible Hazards: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: _____

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: _____

Table #: _____

Actnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Received by/Company: (Signature) FEDEX

Date/Time: 7/17/24 1330

Received by/Company: (Signature) GRU

Date/Time: _____

Received by/Company: (Signature) GRU

Date/Time: _____

Received by/Company: (Signature) GRU

Date/Time: _____

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of 3



WO#: 35893092 (R)

Project #
Project Manager:
Client:

PM: JSB **Due Date: 08/05/24**
CLIENT: DEELAB

Date and Initials of person:
Examining contents: NPI
Verifying pH: NPI

Thermometer Used: T-427 Date: 7/18/24 Time: 1607 Initials: RUP

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 30.2 (Visual) 0.0 (Correction Factor) 30.2 (Actual)
 Cooler #2 Temp. °C 29.2 (Visual) _____ (Correction Factor) 29.2 (Actual)
 Cooler #3 Temp. °C 28.3 (Visual) _____ (Correction Factor) 28.3 (Actual)
 Cooler #4 Temp. °C 29.6 (Visual) _____ (Correction Factor) 29.6 (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Exceptions: Vials, Microbiology, O&G, PFAS									
Headspace in Volatile Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <thead> <tr> <th colspan="2">Preservation Information</th> </tr> </thead> <tbody> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </tbody> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments):

all remaining samples showed up on carrier route

Labeled by: AES

Reviewed by: NPI

Delivered by: NPI



Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

Date and Initials of person: _____
Examining contents: No

Verifying pH: No

Thermometer Used: T-426

Date: 7-18-24

Time: 0955

Initials: BIP

State of Origin: _____
 For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C	<u>4.0</u> (Visual)	<u>0.0</u> (Correction Factor)	<u>4.0</u> (Actual)
Cooler #2 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)
Cooler #3 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)
Cooler #4 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)
Cooler #5 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)
Cooler #6 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)
Recheck for OOT °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other: _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # 2771 8019 5633

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Ice: Wet Blue Dry None Melted

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody:	Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
	Relinquished To Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sufficient Volume.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Comments: _____								
All containers needing acid / base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Headspace in Volatile Vials? (>6mm): <small>Exceptions: Vials, Microbiology, O&G, PFAS</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A								
<table border="1"> <tr> <td colspan="2">Preservation Information</td> </tr> <tr> <td>Preservative: _____</td> <td>Date: _____</td> </tr> <tr> <td>Lot / Trace: _____</td> <td>Time: _____</td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: _____</td> </tr> </table>		Preservation Information		Preservative: _____	Date: _____	Lot / Trace: _____	Time: _____	Amount added (mL): _____	Initials: _____
Preservation Information									
Preservative: _____	Date: _____								
Lot / Trace: _____	Time: _____								
Amount added (mL): _____	Initials: _____								

Comments / Resolutions (use back for additional comments): See attached Paper for missing samples

Labeled by: _____

Reviewed by: _____

Delivered by: _____



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

August 28, 2024

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 7/11/2024. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K24G035-01	SIS-1	Groundwater	07/10/2024 09:17	07/11/2024 14:29
K24G035-02	SIS-2	Groundwater	07/10/2024 12:30	07/11/2024 14:29
K24G035-03	SIS-3	Groundwater	07/10/2024 10:57	07/11/2024 14:29
K24G035-04	SIS-4	Groundwater	07/10/2024 13:29	07/11/2024 14:29
K24G035-05	LF-1	Groundwater	07/10/2024 08:28	07/11/2024 14:29
K24G035-06	LF-2	Groundwater	07/11/2024 08:36	07/11/2024 14:29
K24G035-07	LF-3	Groundwater	07/11/2024 09:47	07/11/2024 14:29
K24G035-08	LF-4	Groundwater	07/11/2024 10:50	07/11/2024 14:29
K24G035-09	LF-5	Groundwater	07/11/2024 11:54	07/11/2024 14:29
K24G035-10	LF-6	Groundwater	07/11/2024 13:17	07/11/2024 14:29
K24G035-11	EBLANK2	Groundwater	07/11/2024 09:18	07/11/2024 14:29



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-1

K24G035-05 (Groundwater, Grab)

Collected: 07/10/2024 8:28 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	56.6		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.3		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.3	I	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	100		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-2

K24G035-06 (Groundwater, Grab)

Collected: 07/11/2024 8:36 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	37.6		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.16	I	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	15.6		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	4.4	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	5.3		1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	225		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-3

K24G035-07 (Groundwater, Grab)

Collected: 07/11/2024 9:47 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	49.7		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.3		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	8.0		1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	367		10	40	mg/L	1	07/15/2024	07/15/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-4
K24G035-08 (Groundwater, Grab)
Collected: 07/11/2024 10:50 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.7	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	24.8		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	12.1		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	114		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-5
K24G035-09 (Groundwater, Grab)
Collected: 07/11/2024 11:54 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	63.1		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	43.5		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	2.1	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	11.2		1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	4.8	I	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	4.2	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.105	I	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	1020		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

LF-6
K24G035-10 (Groundwater, Grab)
Collected: 07/11/2024 1:17 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	12.2		0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	30.5		0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	3.1	I	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.6	I	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	140		10	40	mg/L	1	07/17/2024	07/17/2024	SM 2540C
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EBLANK2
K24G035-11 (Groundwater, Grab)
Collected: 07/11/2024 9:18 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	07/23/2024	07/25/2024	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	07/23/2024	07/25/2024	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	07/24/2024	07/24/2024	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G142 - EPA 200.7

Blank (B24G142-BLK1)

Prepared: 7/23/2024 Analyzed: 7/25/2024

Calcium	0.10 U		0.10	0.40	mg/L						
Cobalt	1.0 U		1.0	4.0	ug/L						
Molybdenum	2.5 U		2.5	10.0	ug/L						
Chromium	1.2 U		1.2	4.8	ug/L						
Lead	3.0 U		3.0	12.0	ug/L						
Selenium	4.0 U		4.0	16.0	ug/L						
Beryllium	0.10 U		0.10	0.40	ug/L						
Cadmium	0.30 U		0.30	1.20	ug/L						
Barium	0.20 U		0.20	0.80	ug/L						
Arsenic	2.5 U		2.5	10.0	ug/L						

LCS (B24G142-BS1)

Prepared: 7/23/2024 Analyzed: 7/25/2024

Beryllium	101				ug/L	100		101	90-110		
Barium	102				ug/L	100		102	90-110		
Calcium	25.0				mg/L	25.2		99.2	90-110		
Chromium	102				ug/L	100		102	90-110		
Arsenic	107				ug/L	100		107	90-110		
Cobalt	105				ug/L	100		105	90-110		
Cadmium	100				ug/L	100		100	90-110		
Selenium	97.1				ug/L	100		97.1	90-110		
Lead	102				ug/L	100		102	90-110		
Molybdenum	106				ug/L	100		106	90-110		

Duplicate (B24G142-DUP1)

Source: K24G035-01

Prepared: 7/23/2024 Analyzed: 7/25/2024

Selenium	4.0 U		4.0	16.0	ug/L		ND			60.5	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			14.2	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			0.00	
Barium	28.3		0.20	0.80	ug/L		28.2			0.100	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			NR	
Calcium	63.1		0.10	0.40	mg/L		64.0			0.939	
Chromium	1.7 I		1.2	4.8	ug/L		1.8			2.99	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	
Molybdenum	2.5 U		2.5	10.0	ug/L		ND			5.44	
Cobalt	1.0 U		1.0	4.0	ug/L		ND			3.22	

Duplicate (B24G142-DUP2)

Source: K24G035-05

Prepared: 7/23/2024 Analyzed: 7/25/2024

Selenium	4.0 U		4.0	16.0	ug/L		ND			32.1	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			9.49	
Molybdenum	2.5 U		2.5	10.0	ug/L		ND			0.743	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	
Cobalt	1.3 I		1.0	4.0	ug/L		1.3			1.91	
Chromium	1.2 U		1.2	4.8	ug/L		ND			4.18	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G142 - EPA 200.7 (Continued)

Duplicate (B24G142-DUP2)		Source: K24G035-05				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Calcium	12.4		0.10	0.40	mg/L		12.3			0.103	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			NR	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			9.43	
Barium	57.0		0.20	0.80	ug/L		56.6			0.451	

Matrix Spike (B24G142-MS1)		Source: K24G035-01				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Beryllium	207		0.10	0.40	ug/L	200	ND	104	90-110		
Calcium	88.4		0.10	0.40	mg/L	25.0	64.0	97.7	90-110		
Barium	556		0.20	0.80	ug/L	500	28.2	106	90-110		
Cobalt	214		1.0	4.0	ug/L	200	ND	107	90-110		
Lead	203		3.0	12.0	ug/L	200	ND	101	90-110		
Selenium	48.6		4.0	16.0	ug/L	50.0	ND	97.2	90-110		
Cadmium	49.5		0.30	1.20	ug/L	50.0	ND	99.0	90-110		
Arsenic	210		2.5	10.0	ug/L	200	ND	105	90-110		
Chromium	212		1.2	4.8	ug/L	200	1.8	105	90-110		
Molybdenum	515		2.5	10.0	ug/L	500	ND	103	90-110		

Matrix Spike (B24G142-MS2)		Source: K24G035-05				Prepared: 7/23/2024 Analyzed: 7/25/2024					
Cobalt	212		1.0	4.0	ug/L	200	1.3	105	90-110		
Lead	201		3.0	12.0	ug/L	200	ND	101	90-110		
Chromium	208		1.2	4.8	ug/L	200	ND	104	90-110		
Barium	571		0.20	0.80	ug/L	500	56.6	103	90-110		
Molybdenum	502		2.5	10.0	ug/L	500	ND	100	90-110		
Cadmium	49.2		0.30	1.20	ug/L	50.0	ND	98.4	90-110		
Selenium	49.0		4.0	16.0	ug/L	50.0	ND	98.0	90-110		
Beryllium	200		0.10	0.40	ug/L	200	ND	100	90-110		
Arsenic	204		2.5	10.0	ug/L	200	ND	102	90-110		
Calcium	36.7		0.10	0.40	mg/L	25.0	12.3	97.5	90-110		

Batch B24G154 - MERCURY

Blank (B24G154-BLK1)						Prepared & Analyzed: 7/24/2024					
Mercury	0.100 U		0.100	0.400	ug/L						

LCS (B24G154-BS1)						Prepared & Analyzed: 7/24/2024					
Mercury	2.08		0.100	0.400	ug/L	2.00		104	90-110		

Duplicate (B24G154-DUP1)		Source: K24G035-01				Prepared & Analyzed: 7/24/2024					
Mercury	0.108 I		0.100	0.400	ug/L		ND			25.5	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Metals by EPA 200 Series Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G154 - MERCURY (Continued)

Duplicate (B24G154-DUP2)		Source: K24G035-05				Prepared & Analyzed: 7/24/2024					
Mercury	0.100	U	0.100	0.400	ug/L		ND			43.6	
Matrix Spike (B24G154-MS1)		Source: K24G035-01				Prepared & Analyzed: 7/24/2024					
Mercury	2.09		0.100	0.400	ug/L	2.00	ND	105	90-110		
Matrix Spike (B24G154-MS2)		Source: K24G035-05				Prepared & Analyzed: 7/24/2024					
Mercury	1.93		0.100	0.400	ug/L	2.00	ND	96.6	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Wet Chemistry by APHA/EPA Methods - Quality Control Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B24G096 - DEFAULT PREP - Wet Chem

Blank (B24G096-BLK1)

Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24G096-DUP1)

Source: K24G035-02

Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 544 10 40 mg/L 539 0.653

Reference (B24G096-SRM1)

Prepared & Analyzed: 7/15/2024

Total Dissolved Solids 241 mg/L 240 100 90-110

Batch B24G116 - DEFAULT PREP - Wet Chem

Blank (B24G116-BLK1)

Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 10 U 10 40 mg/L

Duplicate (B24G116-DUP1)

Source: K24G024-12

Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 126 10 40 mg/L 125 0.563

Reference (B24G116-SRM1)

Prepared & Analyzed: 7/17/2024

Total Dissolved Solids 238 mg/L 240 99.2 90-110



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q24 CCR
Project Manager: Jeff Boudreau

Reported:
08/28/2024 17:45

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

Work Order #
K24035
Page 1 of 1
Project # 3024 CCR

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Matrix:
GW = Groundwater
W = Water

Batch:		ENV3Q24		Container Preservation Type											
Sample Collector(s):		Analysis Requested													
Sample ID	Matrix	Collection Date/Time	# of Ctns	N	N	I	I	N	N	N	N	I	I	N	
				Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, MB, Mn, Mo, Ni, Se, Ag, Sr, V, ZnPK, Na)											
				Mercury by 245.1											
				Color by 2120B											
				TSS by 2540D											
				TDS by 2540C											
				Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (As, Ba, Cd, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (As, Ba, Be, Ca, Cr, Co, Pb, Mo, Se)											
				Metals by 200.7 (Mn, Mo, Ni, Na, Zn)											
				Chloride by 4500-Cl-C											
				Sulfate by 4500-SO4-E											
				Arsenic by 200.7											
3Q24-SIS-1	GW	7/10/24 @ 09:17	2		X			X	X						
3Q24-SIS-2	GW	7/10/24 @ 12:30	2		X			X	X						
3Q24-SIS-3	GW	7/10/24 @ 10:57	2		X			X	X						
3Q24-SIS-4	GW	7/10/24 @ 12:30	2		X			X	X						
3Q24-LF-1	GW	7/10/24 @ 08:28	2		X			X	X						
3Q24-LF-2	GW	7/11/24 @ 08:36	2		X			X	X						
3Q24-LF-3	GW	7/11/24 @ 09:47	2		X			X	X						
3Q24-LF-4	GW	7/11/24 @ 10:50	2		X			X	X						
3Q24-LF-5	GW	7/11/24 @ 11:54	2		X			X	X						
3Q24-LF-6	GW	7/11/24 @ 13:17	2		X			X	X						
3Q24-EBLANK2	GW	7/11/24 @ 09:18	1		X			X	X						

Sample ID
-01
-02
-03
-04
-05
-06
-07
-08
-09
-10
-11

Released By: *[Signature]* Date/Time: 07/11/24 1429
Received By: *[Signature]* Date/Time: 07/11/24 1429

Released By: _____ Date/Time: _____
Received By: _____ Date/Time: _____

* Samples for TDS analysis were received on ice. JUD 07/11/24

Note - Time written on bottle was 12:30 for SIS-2 and 10:57 for SIS-3, which did not match COC. Emailed Deerhaven on 07/11/24 about discrepancy. JUD 07/11/24

Per email from Kent on 07/12/24, time on bottles was correct and there was a typo on the COC. Correct time for SIS-2 was 1230 and correct time for SIS-3 was 1057. COC was corrected to match times on bottles. JUD 07/15/24

Attachment B
Groundwater Sampling Field and
Calibration Logs

DGS Groundwater Sampling Log



WELL ID: R4T5	Location:	Latitude: 29°45'52.14"	Longitude: -82°23'33.18"	MSL @ TOC: 187.46	Date In Service: 7-93
Quarter: 1Q24	Date: 1-8-24	Well Type: I			

Purging Data

Diameter(In) 2	Total well depth(ft) 15.08	Depth to water(ft) 10.21	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 5.08 ft.	Purging Method: PP	Equipment Volume = 760 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 11:30	
Well Vol = (15.08 - 10.21) X 0.6 = 2.922 L		1/4 well vol. = 0.7305	
Init Tubing Dpth(ft): 10.71	Final Tube Dept(ft): 11.33	Purge Start Time: 11:32	Purge Stop Time: 11:53
			Total Volume Purged 4.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1144	3.0	3.0	180	10.83	6.18	22.10	766.0	0.53	1.09	9.7	Yellow
1148	0.75	3.75	180	10.83	6.18	22.07	762.6	0.47	0.80	5.2	Clear
1152	0.75	4.5	180	10.83	6.18	22.10	759.4	0.46	0.69	0.7	Sulfur Odor

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): JCDavis				Sampler(s) Signatures: <i>[Signature]</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 11.33 Time: 1155		Sampling completed Tube Dpth(ft): 11.33 Time: 1240			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Acid ID# HNO3: D50073 H2SO4: D50032				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-R4T5-A	PE	4000/500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-R4T5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
1Q24-R4T5-C	PE	250	H2SO4/Chill	0.5 mL	1.0	Pace: NO2/NO3 and TOC	
1Q24-R4T5-D	PE	1000	HNO3	2 mL	1.3	Pace: Gross Alpha	
1Q24-R4T5-E	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-R4T5-M	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-R4T5-N	PE	2000	HNO3	4 mL	1.6	Pace: Radium 226+228	

Tubing Depth is 0.5 ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **54F** Winds: **E 8 mph** Cloud Cover: **Cloudy** Precip: **Drizzling**
 Remarks:

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: R6T4	Location:	Latitude: 29°46'00.90"	Longitude: -82°23'40.20"	MSL @ TOC: 183.6	Date In Service: 7-83
Quarter: 1024	Date: 1-10-24	Well Type: 1			

Purging Data

Diameter(In) 2	Total well depth(ft) 14.13	Depth to water(ft) 1.99	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.13 ft.		Purging Method: PP Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0810
Well Vol = (14.13 - 1.99) X 0.6 = 7.284 L			1/4 well vol. = 1.821
Init Tubing Dpth(ft): 2.49	Final Tube Dept(ft): 3.24	Purge Start Time: 0812	Purge Stop time: 0850 Total Volume Purged 12.0 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0837	7.3	7.3	460	2.74	6.50	18.44	365.1	0.29	0.54	304.2	Clear
0841	1.9	9.2	460	2.74	6.46	18.72	350.3	0.28	0.58	249.9	Colorless
0845	1.9	11.1	460	2.74	6.37	18.85	337.1	0.25	0.65	164.3	Colorless
0848	1.9	13.0	460	2.74	6.29	18.85	334.2	0.25	0.58	107.4	

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>JC Davis</i>				Sampler(s) Signatures: <i>JC Davis</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 3.24 Time: 0852		Sampling completed Tube Dpth(ft): 3.24 Time: 0909			
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0073	H2SO4: DS0032			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1024-R6T4-A	PE	4000/500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1024-R6T4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
1024-R6T4-C	PE	250	H2SO4/Chill	0.5 mL	1.3	Pace: NO2/NO3 and TOC	
1024-R6T4-D	PE	1000	HNO3	2 mL	1.3	Pace: Gross Alpha	
1024-R6T4-E	PE	250/500	HNO3	0.5/1.0 mL	1.3	Kanapaha: Metals	
1024-R6T4-M	PE	250	HNO3	0.5 mL	1.3	Pace: Metals	
1024-R6T4-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is <u>0.5</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: <u>44 F</u> Winds: <u>W 7 mph</u> Cloud Cover: <u>Clear</u> Precip: <u>0</u>							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **EBLANK 1**

Quarter: **1Q24**

Date: **1/10/24**

Purging Data

Purging Method: **PP** Equipment Volume = **750 mL**

Well Collected At: **R9TS**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **1510**

Purge Stop time: **N/A**

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>K. Batefield, JCDwin</i>			Sampler(s) Signatures: <i>K. Batefield, JCDwin</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 1512	Sampling completed Time: 1514			
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0073 H2SO4: DS0032			
Sample Container Specification		Sample Preservation			Intended Analysis or method	
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	
1Q24-EBLANK1-B	PE	250	Chill <6 C	n/a	n/a	Pace Anions
1Q24-EBLANK1-C	PE	250	H2SO4+Chill	0.5 mL	1.3	Pace NO2/NO3 and TOC
1Q24-EBLANK1-D	PE	1000	HNO3	2 mL	1.3	Pace Gross Alpha
1Q24-EBLANK1-E	PE	250 (500)	HNO3	0.5 (1 mL)	1.3	Kanapaha Metals
N/A	PE	250	HNO3	0.5 mL		Pace Metals
N/A	PE	2000	HNO3	4 mL		Pace Radium 226+228

N/A Well found locked on arrival **N/A** Well left locked on departure
 Temperature: **59° F** Winds: **W @ 14 mph** Cloud Cover: **partly cloudy** Precip: **0**
 Remarks: **Depth probe was dipped into EBLANK container after decon, before collecting sample in bottles.**

DGS Groundwater Sampling Log



WELL ID: **SIS-1** Location: Latitude: Longitude: MSL @ TOC Date In Service
 29°46'00.1308" -82°23'33.3204" 185.11 2017

Quarter: **1Q24** Date: **1/11/24** Well Type: **U**

Purging Data

Diameter(in)	2	Total well depth(ft)	13.92	Depth to water(ft)	3.77	Well capacity(L/ft)	0.6				
Distance from TOC to top of screen	3.92	ft.		Purging Method:	PP	Equipment Volume =	760 mL				
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon: 0855							
Well Vol = (13.92 - 3.77) X 0.6 = 6.1 L				1/4 well vol. = 1.6 L							
Init Tubing Dpth(ft):	2.9	Final Tube Dept(ft):	4.83	Purge Start Time:	0857	Purge Stop time:	0921				
						Total Volume Purged	6.9 L				
Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0915	6.1	6.1	380	4.33	6.62	13.81	475.2	0.64	3.00	248.3	clear no color no odor
0918	1.4	5.5	380	4.33	6.60	13.80	477.7	0.59	2.77	237.3	
0921	1.4	6.9	380	4.33	6.59	13.91	479.8	0.58	2.00	226.7	

Decon Depth Mtr - rinse with analyte free water
 §Purge method FDEP-SOP 2212.3.1

◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): **R. Brakefield, J. Davis** Sampler(s) Signatures: *R. Brakefield, J. Davis*

Sampling Method: PP Tube Material: PP/S Sampling Started Tube Dpth(ft): **9.0** Time: **0923** Sampling completed Tube Dpth(ft): **9.0** Time: **0933**

Field Decon: NO Field Filtered: NO Duplicate: YES NO Acid ID# HNO3: **DS0073** H2SO4: **N/A**

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q24-SIS-1-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q24-SIS-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha
1Q24-SIS-1-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q24-SIS-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)
1Q24-SIS-1-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **46°F** Winds: **No wind** Cloud Cover: **overcast** Precip:

Remarks:

DGS Groundwater Sampling Log



WELL ID: SIS-2	Location: _____	Latitude: 29°45'53.4672"	Longitude: -82°23'31.5096"	MSL @ TOC: 183.3	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 14.22	Depth to water(ft) 4.67	Well capacity(L/ft) 0.6				
Distance from TOC to top of screen 4.22 ft.		Purging Method: PP		Equipment Volume = 750 mL			
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon: 0946			
Well Vol = (14.22 - 4.67) X 0.6 = 5.8 L				1/4 well vol. = 1.5 L			
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0948	Purge Stop time: 1010	Total Volume Purged 8.2 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1004	5.8	5.8	360	5.19	7.21	15.35	1576	5.35	4.56	261.5	Clear No color No odor
1007	1.2	7.0	360	5.19	7.21	15.32	1600	5.18	4.62	262.3	
1010	1.2	8.2	360	5.19	7.21	15.32	1617	5.22	3.99	262.7	

>20% DO
↓

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield, JCD				Sampler(s) Signatures: <i>K. Brakefield, JCD</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1012		Sampling completed Tube Dpth(ft): 9.0 Time: 1022			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO <input type="radio"/>	Acid ID# HNO3: D50073		H2SO4: N/A		
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-SIS-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-SIS-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5m		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-SIS-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-SIS-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-SIS-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 51°F Winds: No wind Cloud Cover: partly cloudy Precip: Ø Remarks:							

DGS Groundwater Sampling Log



WELL ID: SIS-3	Location: 29°45'51.8472" -82°23'35.5632"	Latitude: 29°45'51.8472"	Longitude: -82°23'35.5632"	MSL @ TOC Date In Service: 183.11 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 13.38	Depth to water(ft) 2.66	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 3.38 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1036	
Well Vol = (13.38 - 2.66) X 0.6 = 6.5 L		1/4 well vol. = 1.6 L	
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1038	Purge Stop time: 1119
			Total Volume Purged 7.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1113	6.5	6.5	160	3.49	6.88	14.16	239.9	2.13	3.34	231.2	clear No color No odor
1116	0.5	7.0	160	3.49	6.88	14.18	242.7	2.11	3.71	224.1	
1119	0.5	7.5	160	3.51	6.88	14.25	246.3	2.10	4.61	215.6	

>20% DO
↓

★ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Blakefield, JCD				Sampler(s) Signatures: <i>[Signature]</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 1122	Sampling Completed Tube Dpth(ft): 9.0	Time: 1149		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: DS0073 H2SO4: N/A				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-SIS-3-F	PE	400 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-SIS-3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-SIS-3-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-SIS-3-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-SIS-3-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 58°F Winds: ESE @ 1mph Cloud Cover: cloudy Precip: 0 Remarks:							

DGS Groundwater Sampling Log



WELL ID: SIS-4	Location:	Latitude: 29°45'54.144"	Longitude: -82°23'38.4108"	MSL @ TOC	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 13.7	Depth to water(ft) 3.75	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 3.7	ft.	Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1158	
Well Vol = (13.7 - 3.75) X 0.6 = 6.0 L		1/4 well vol. = 1.5 L	
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1200	Purge Stop time: 1228
			Total Volume Purged 7.6 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1221	6.0	6.0	260	4.77	6.83	15.76	334.7	0.75	1.43	210.3	Clear w/ particulates Yellowish color Slight sulfur odor
1224	0.8	6.8	260	4.77	6.83	15.79	332.2	0.69	1.21	206.7	
1228	0.8	7.6	260	4.77	6.82	15.80	327.1	0.61	2.10	201.2	

* FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield, J. Decker</u>				Sampler(s) Signatures: <u>K. Brakefield, J. Decker</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1230		Sampling completed Tube Dpth(ft): 9.0 Time: 1245			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/>	Acid ID# HNO3: D50073		H2SO4: N/A		
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-SIS-4-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-SIS-4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-SIS-4-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
1Q24-SIS-4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-SIS-4-N	PE	2000	HNO3	4 mL	1.0	Pace: Radium 226+228	
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>62°C</u> Winds: <u>E @ 5 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>0</u> Remarks:							

DGS Groundwater Sampling Log



WELL ID: LF-1	Location: 29°45'59.0544" -82°23'51.8244"	Latitude: 29°45'59.0544"	Longitude: -82°23'51.8244"	MSL @ TOC: 185.76	Date In Service: 2017
Quarter: 1Q24	Date: 1/11/24	Well Type: U			

Purging Data

Diameter(In): 2	Total well depth(ft): 14.88	Depth to water(ft): 4.84	Well capacity(L/ft): 0.6
Distance from TOC to top of screen: 4.88 ft.	Purging Method: PP		Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 0748	
Well Vol = (14.88 - 4.84) X 0.6 = 6.1 L		1/4 well vol. = 1.6 L	
Int Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0751	Purge Stop time: 0819
Total Volume Purged (2.5 L)			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0805	0.1	0.1	440	5.07	6.72	17.82	433.2	5.40	4.65	348.6	DO > 20% ↓ clear with particulates No color No odor
0809	1.6	1.7	440	5.07	6.70	17.88	422.1	5.58	3.97	345.1	
0812	1.6	3.3	440	5.07	6.66	18.02	413.2	5.06	1.97	340.9	
0815	1.6	4.9	440	5.07	6.63	18.12	407.2	4.78	1.98	337.0	
0819	1.6	6.5	440	5.07	6.59	18.16	397.8	4.54	4.69	328.3	

▲ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mir - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Bakerfield, J. Davis				Sampler(s) Signatures: <i>K. Bakerfield, J. Davis</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 0821	Sampling completed Tube Dpth(ft): 9.0	Time: 0830		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0073	H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
1Q24-LF-1-F	PE	4000/500	Chill <6 C	n/a	n/a	Kanapaha: Physical	
1Q24-LF-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
1Q24-LF-1-G	PE	250/500	HNO3	0.5/1.0 mL	1.3	Kanapaha: Metals	
1Q24-LF-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
1Q24-LF-1-N	PE	2000	HNO3	4 mL	1.3	Pace: Radlum 226+228	
Tubing Depth is N/A It below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: 45°F Winds: E @ 2 mph Cloud Cover: overcast Precip: 0 Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-2	Location:	Latitude: 29°45'50.46"	Longitude: -82°23'47.40"	MSL @ TOC: 182.33	Date In Service: 2019
Quarter: 1Q24	Date: 1/11/24	Well Type: D			

Purging Data

Diameter(in): 2	Total well depth(ft): 15.36	Depth to water(ft): 3.54	Well capacity(L/ft): 0.6
Distance from TOC to top of screen: 5.36 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 1319
Well Vol = (15.36 - 3.54) X 0.6 = 7.1 L			1/4 well vol. = 1.8 L
Ini/Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1321	Purge Stop time: 1336
Total Volume Purged: 2.7 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1330	1.5	1.5	200	3.78	5.24	16.23	257.9	0.72	12.4	119.3	clear w/ particulates. No color Sulfur odor
1333	0.6	2.1	200	3.78	5.22	16.26	260.1	0.69	10.6	108.3	
1336	0.6	2.7	200	3.78	5.21	16.31	260.3	0.65	10.1	101.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): R. Bracketfield, JCDunn				Sampler(s) Signatures: <i>R. Bracketfield, JCDunn</i>			
Sampling Method: PP	Tube Material: PP/S	Tube Dpth(ft): 9.0	Sampling Started Time: 1338	Tube Dpth(ft): 9.0	Sampling completed Time: 1357		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50073	H2SO4: N/A			

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q24-LF-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q24-LF-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha
1Q24-LF-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q24-LF-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals <i>(preserved in field)</i>
1Q24-LF-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is **N/A** below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **63°F** Winds: **W @ 5 mph** Cloud Cover: **cloudy** Precip: **0**
 Remarks:

DGS Groundwater Sampling Log



WELL ID: **LF-3** Location: Latitude: **29°45'50.38"** Longitude: **-82°23'52.30"** MSL @ TOC: **183.7** Date In Service: **2019**
 Quarter: **1Q24** Date: **1/12/24** Well Type: **D**

Purging Data

Diameter(in)	2	Total well depth(ft)	16.29	Depth to water(ft)	4.00	Well capacity(L/ft)	0.6	
Distance from TOC to top of screen	6.29	ft.		Purging Method:	PP	Equipment Volume =	760 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon:				
Well Vol = (16.29 - 4.00) X 0.6 = 7.4 L				1/4 well vol. = 1.85 L				
Init Tubing Dpth(ft):	9.0	Final Tube Dept(ft):	9.0	Purge Start Time:	0755	Purge Stop time:	0807	
						Total Volume Purged:		3.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0801	1.5	1.5	300	4.30	5.96	15.47	542.1	1.10	1.94	-22.3	clear No color Sulfur smell
0804	0.9	2.4	300	4.30	5.93	15.52	527.3	0.80	2.45	-44.7	
0807	0.9	3.3	300	4.30	5.92	15.57	522.2	0.66	1.91	-55.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): **K. Brackett, J. Davis** Sampler(s) Signatures: **K. Brackett, J. Davis**

Sampling Method:	PP	Tube Material:	PP/S	Sampling Started Tube Dpth(ft):	9.0	Time:	0810	Sampling completed Tube Dpth(ft):	9.0	Time:	0820
Field Decon:	NO	Field Filtered:	NO	Duplicate:	YES	<input checked="" type="radio"/> NO	Acid ID#	HNO3: DS0073	H2SO4:	N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q24-LF-3-F	PE	400 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q24-LF-3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha
1Q24-LF-3-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q24-LF-3-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q24-LF-3-N	PE	2000	HNO3	4 mL	1.0	Pace: Radium 226+228

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **59°F** Winds: **ESE @ 9 mph** Cloud Cover: **overcast** Precip: **0**
 Remarks:

DGS Groundwater Sampling Log



WELL ID: LF-4	Location:	Latitude: 29°45'50.43"	Longitude: -82°23'58.46"	MSL @ TOC: 184.83	Date In Service: 2019
Quarter: 1Q24	Date: 1/12/24	Well Type: D			

Purging Data

Diameter(In) 2	Total well depth(ft) 16.06	Depth to water(ft) 3.84	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.06 ft.	Purging Method: PP		Equipment Volume = 760 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0846
Well Vol = (16.06 - 3.84) X 0.6 = 7.4 L			1/4 well vol. = 1.85 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0849	Purge Stop time: 0911
		Total Volume Purged: 7.0 L	

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0904	5.0	5.0	320	4.25	5.13	15.01	223.7	1.07	10.9	128.4	clear No color Sulfur odor
0907	1.0	6.0	320	4.25	5.14	15.02	224.1	1.09	12.6	120.5	
0911	1.0	7.0	320	4.25	5.14	15.05	222.3	1.03	7.01	117.2	

• FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Bakefield, J. Durin	Sampler(s) Signatures: <i>K. Bakefield J. Durin</i>		
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0914	Sampling completed Tube Dpth(ft): 9.0 Time: 0924
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: D50073 H2SO4: N/A
Sample Container Specification		Sample Preservation	
Sample ID:	Material	Vol(mL)	Preservative
			Vol Added
			Final pH
Intended Analysis or method			
1Q24-LF-4-F	PE	4000 (500)	Chill <6 C
			n/a
			n/a
Kanapaha: Physical			
1Q24-LF-4-K	PE	250	Chill <6 C
			n/a
			n/a
Pace: Anions			
N/A	PE	250	H2SO4/Chill
			0.5 mL
			1.3
Pace: NO2/NO3 and TOC			
N/A	PE	1000	HNO3
			2 mL
			1.3
Pace: Gross Alpha			
1Q24-LF-4-G	PE	250 (500)	HNO3
			0.5 (1.0) mL
			1.3
Kanapaha: Metals			
1Q24-LF-4-L	PE	250	HNO3
			0.5 mL
			1.3
Pace: Metals (preserved in field)			
1Q24-LF-4-N	PE	2000	HNO3
			4 mL
			1.3
Pace: Radium 226+228			
Tubing Depth is N/A below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure			
Temperature: 61°F Winds: SE @ 10 mph Cloud Cover: overcast Precip: rain			
Remarks: Extended initial purge until turbidity dropped below 20%. Rain began during sample collection. Well and equipment were covered.			

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **LF-5** Location: Latitude: **29°45'53.70"** Longitude: **-82°23'59.83"** MSL @ TOC Date In Service: **184.33 2020**

Quarter: **1Q24** Date: **1/17/24** Well Type: **D**

Purging Data

Diameter(in)	2	Total well depth(ft)	14.52	Depth to water(ft)	4.15	Well capacity(L/ft)	0.6				
Distance from TOC to top of screen	4.04	ft.		Purging Method:	PP	Equipment Volume =	750 mL				
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity						Time of Depth Meter Decon: 0830					
Well Vol = (14.52 - 4.15) X 0.6 = 6.25 L						1/4 well vol. = 1.6 L					
Init Tubing Dpth(ft):	9.0	Final Tube Dept(ft):	9.0	Purge Start time:	0832	Purge Stop time:	0917				
						Total Volume Purged 12.9 L					
Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0850	6.3	6.3	400	5.56	5.95	16.02	509.6	0.73	18.0	144.2	clear colorless odorless
0853	1.2	7.5	400	5.56	5.88	16.03	540.8	0.76	13.4	161.4	
0911	3.0	10.5	400	5.56	5.67	16.20	745.3	0.80	4.71	106.2	
0914	1.2	11.7	400	5.56	5.65	16.26	761.3	0.86	4.98	104.0	
0917	1.2	12.9	400	5.56	5.63	16.26	775.6	0.88	4.04	102.7	

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): **K. Brakefield, JCDavis** Sampler(s) Signatures: *K. Brakefield, JCDavis*

Sampling Method: PP Tube Material: PP/S Sampling Started Tube Dpth(ft): 9.0 Time: **0920** Sampling completed Tube Dpth(ft): 9.0 Time: **0929**

Field Decon: NO Field Filtered: NO Duplicate: YES **(NO)** Acid ID# HNO3: **DS0073** H2SO4: **N/A**

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q24-LF-5-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q24-LF-5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha
1Q24-LF-5-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q24-LF-5-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals <i>(preserved in field)</i>
1Q24-LF-5-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is **N/A** ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: **34°F** Winds: **NNW @ 7 mph** Cloud Cover: **overcast** Precip: **0"**
 Remarks: **Extended the purge between parameters until conductivity stabilizes**

DGS Groundwater Sampling Log



WELL ID: LF-6	Location:	Latitude: 29°45'56.71"	Longitude: -82°23'59.75"	MSL @ TOC Date In Service: 184.59 2020
Quarter: <u>1Q24</u>	Date: <u>1/17/24</u>	Well Type: D		

Purging Data

Diameter(In) 2	Total well depth(ft) 14.52	Depth to water(ft) 4.13	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: <u>0944</u>	
Well Vol = (14.52 - 4.13) X 0.6 = 6.25 L		1/4 well vol. = 1.6 L	
Init Tubing Dpth(ft): 9.0	Final Tube Dep(ft): 9.0	Purge Start Time: <u>0946</u>	Purge Stop time: <u>1011</u>
			Total Volume Purged 8.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU) ±0.2§	Temp (°C) ±0.2§	Cond (µmho) ±5%§	Diss O2 (mg/L) 20% sat§	Turbidity (ntu) 20 max§	ORP (mv)	Observed odor or color
1005	6.3	6.3	360	4.65	6.50	15.90	170.5	1.85	16.8	159.9	clear no color
1008	1.0	7.3	360	4.65	6.48	16.01	170.4	1.70	14.8	169.0	
1011	1.0	8.3	360	4.65	6.49	16.01	171.1	1.69	14.0	167.5	

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

♣ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): <u>JC Davis, K. Brakefield</u>				Sampler(s) Signatures: <u>[Signatures]</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u> Time: <u>1014</u>		Sampling completed Tube Dpth(ft): <u>9.0</u> Time: <u>1024</u>			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO <input type="radio"/>	Acid ID# HNO3: <u>DS0073</u> H2SO4: <u>N/A</u>				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
<u>1Q24-LF-6-F</u>	<u>PE</u>	<u>4000 (500)</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Kanapaha: Physical</u>	
<u>1Q24-LF-6-K</u>	<u>PE</u>	<u>250</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Pace: Anions</u>	
<u>N/A</u>	<u>PE</u>	<u>250</u>	<u>H2SO4/Chill</u>	<u>0.5 mL</u>		<u>Pace: NO2/NO3 and TOC</u>	
<u>N/A</u>	<u>PE</u>	<u>1000</u>	<u>HNO3</u>	<u>2 mL</u>		<u>Pace: Gross Alpha</u>	
<u>1Q24-LF-6-G</u>	<u>PE</u>	<u>250 (500)</u>	<u>HNO3</u>	<u>0.5 (1.0 mL)</u>	<u>1.3</u>	<u>Kanapaha: Metals</u>	
<u>1Q24-LF-6-L</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>0.5 mL</u>	<u>1.3</u>	<u>Pace: Metals (preserved in field)</u>	
<u>1Q24-LF-6-N</u>	<u>PE</u>	<u>2000</u>	<u>HNO3</u>	<u>4 mL</u>	<u>1.3</u>	<u>Pace: Radium 226+228</u>	
Tubing Depth is <u>N/A</u> below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>38°F</u> Winds: <u>NE @ 6 mph</u> Cloud Cover: <u>overcast</u> Precip: <u>Ø</u> Remarks:							

DGS Groundwater Sampling Log



WELL ID: **EBLANK 2**

Quarter: 1Q24

Date: 1/11/24

Purging Data

Purging Method: PP Equipment Volume = 760 mL

Well Collected At: **LF-2**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **1308**

Purge Stop time: **N/A**

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
\$Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>R. Brackett, J. Davis</i>			Sampler(s) Signatures: <i>R. Brackett, J. Davis</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 1310		Sampling completed Time: 1313		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: DS0073 H2SO4: N/A			
Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	
1Q24-EBLANK2-K	PE	250	Chill <6 C	n/a	n/a	Pace Anions
N/A	PE	250	H2SO4+Chill	0.5 mL		Pace NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace Gross Alpha
1Q24-EBLANK2-G	PE	250 / 500	HNO3	0.5 / 1 mL	1.3	Kanapaha Metals
1Q24-EBLANK2-L	PE	250	HNO3	0.5 mL	1.3	Pace Metals <i>(preserved in field)</i>
1Q24-EBLANK2-N	PE	2000	HNO3	4 mL	1.0	Pace Radium 226+228

N/A Well found locked on arrival N/A Well left locked on departure
 Temperature: **63°F** Winds: **W @ 5mph** Cloud Cover: **cloudy** Precip: **Ø**
 Remarks:

Instrument Calibration Log

Model 2100QIS01

Serial Number 23020D000369

Manufacturer: Hach

Date Purchased 08-2023

Parameter: Turbidity

GRU Prop Tag# none

QTR: 1Q24 : used Manufactures SOP for calibrations and _____ SOP for verifications

	Standard Concentration, ID#, Expiration Date	Unit
Standard A	<u>6.60 , Gelex Std</u>	<u>NTU</u>
Standard B	<u>59.6 , Gelex Std.</u>	<u>NTU</u>
Standard C	<u>578 , Gelex Std.</u>	<u>NTU</u>
QC	<u>20 , DS0062 , exp. 03/25</u>	<u>NTU</u>
QC	<u>20.1 , DS0061 , exp. 04/24</u>	<u>NTU</u>

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
1/5/24	1341	A	6.60	6.63	P	No	cont	KSB
1/5/24	1342	B	59.6	60.7	P	No	cont	KSB
1/5/24	1343	C	578	585	P	No	cont	KSB
1/5/24	1343	QC	20	20.9	P	No	cont	KSB
1/8/24	0701	QC	20.1	0.09	P	No	cont	KSB
1/9/24	0747	A	6.60	6.59	P	No	cont	KSB
1/10/24	1509	A	6.60	6.58	P	No	cont	JCD
1/11/24	1420	A	6.60	6.56	P	No	cont	KSB
1/12/24	0946	A	6.60	6.51	P	No	cont	KSB
1/12/24	0948	B	59.6	60.7	P	No	cont	KSB
1/18/24	0715	A	6.60	6.62	P	No	cont	KSB
1/18/24	0716	B	59.6	60.6	P	No	cont	KSB
1/18/24	1406	A	6.60	6.59	P	No	cont	KSB
1/18/24	1407	B	59.6	60.7	P	No	cont	KSB

Primary Standards

- 10 NTU, ID# _____, EXP. _____
- 20 NTU, ID# _____, EXP. _____
- 100 NTU, ID# _____, EXP. _____
- 800 NTU, ID# _____, EXP. _____

Acceptance Criteria

- 0.1 to 10.0 NTU = +/- 10%
- 11 to 40 NTU = +/- 8%
- 41 to 100 NTU = +/- 6.5%
- >100 NTU = +/- 5%

DGS Groundwater Sampling Log



WELL ID: LF-1	Location:	Latitude: 29°45'59.0544"	Longitude: -82°23'51.8244"	MSL @ TOC	Date In Service
Quarter: 3Q24	Date: 7/10/24	185.76	2017	Well Type: U	

Purging Data

Diameter(in) 2	Total well depth(ft) 14.88	Depth to water(ft) 6.37	Well capacity(L/ft) 0.6				
Distance from TOC to top of screen 4.88 ft.		Purging Method: PP		Equipment Volume = 750 mL			
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon: 8:01			
Well Vol = (14.88 - 6.37) X 0.6 = 5.11 L				1/4 well vol. = 1.3			
Init Tubing Dpth(ft): 9'	Final Tube Dept(ft): 9'	Purge Start Time: 8:17	Purge Stop time: 8:27	Total Volume Purged 7.20 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
8:20	5.20	5.20	300	6.49	5.35	26.39	178.7	0.19	0.60	52.2	clear
8:23	1.0	6.20	300	6.49	5.35	26.38	177.9	0.18	0.76	44.3	Colorless
8:26	1.0	7.20 <small>km 7/10/24</small>	300	6.49	5.35	26.38	171.6	0.17	0.72	40.7	No odor

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): K. Morrison, K. Brakefield				Sampler(s) Signatures: K. Morrison, K. Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9'	Time: 8:28	Sampling completed Tube Dpth(ft): 9'	Time: 8:38		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: DS0073	H2SO4: DS0032			
Sample Container Specification		Sample Preservation			Intended Analysis or method		
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
3Q24-LF1 F	PE	400 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF1 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL	—	Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha	
3Q24-LF1 G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
3Q24-LF1 J	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF1 M	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is 9' ft below depth to water for every instance.				<input checked="" type="checkbox"/> Well found locked on arrival		<input checked="" type="checkbox"/> Well left locked on departure	
Temperature: 80°F		Winds: 11mph SW		Cloud Cover: Partly Cloudy		Precip: N/A	
Remarks:							

DGS Groundwater Sampling Log



WELL ID: LF-2	Location:	Latitude: 29°45'50.46"	Longitude: -82°23'47.40"	MSL @ TOC 182.33	Date In Service 2019
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 15.36	Depth to water(ft) 4.59	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 5.36 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 0752
Well Vol = (15.36 - 4.59) X 0.6 = 6.46 L			1/4 well vol. = 1.62 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0755	Purge Stop time: 0834
			Total Volume Purged 8.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0825	6.5	6.5	220	4.92	5.17	27.92	235.4	0.13	1.38	55.9	clear No color slight sulfur odor
0829	1.0	7.5	220	4.92	5.16	27.85	236.9	0.12	1.30	53.1	
0834	1.0	8.5	220	4.95	5.16	27.85	238.8	0.11	1.54	51.7	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <i>K. Brackett</i>				Sampler(s) Signatures: <i>K. Brackett</i>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0836		Sampling completed Tube Dpth(ft): 9.0 Time: 0852			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="checkbox"/> NO	Acid ID# HNO3: D50077	H2SO4: N/A			
Sample Container Specification		Sample Preservation		D50073			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
3Q24-LF-2-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
3Q24-LF-2-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
3Q24-LF-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF-2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is ^{N/A} ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: 80°F Winds: WNW @ 4 mph Cloud Cover: partly cloudy Precip: 0							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-3	Location:	Latitude: 29°45'50.38"	Longitude: -82°23'52.30"	MSL @ TOC	Date In Service
Quarter: <u>3Q24</u>	Date: <u>7/11/24</u>	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 16.29	Depth to water(ft) 6.60	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.29 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: <u>0903</u>
Well Vol = (16.29 - 6.60) X 0.6 = 5.91 L			1/4 well vol. = 1.45L
Init Tubing Dpth(ft): <u>9.0</u>	Final Tube Depth(ft): <u>9.0</u>	Purge Start Time: <u>0907</u>	Purge Stop time: <u>0944</u>
			Total Volume Purged 7.9 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
<u>0935</u>	<u>5.9</u>	<u>5.9</u>	<u>210</u>	<u>6.77</u>	<u>5.85</u>	<u>27.65</u>	<u>419.2</u>	<u>0.17</u>	<u>4.02</u>	<u>-86.6</u>	<i>some particulates yellowish color strong sulfur odor</i>
<u>0940</u>	<u>1.0</u>	<u>6.9</u>	<u>210</u>	<u>6.77</u>	<u>5.85</u>	<u>27.72</u>	<u>420.9</u>	<u>0.15</u>	<u>3.95</u>	<u>-93.1</u>	
<u>0944</u>	<u>1.0</u>	<u>7.9</u>	<u>210</u>	<u>6.77</u>	<u>5.86</u>	<u>27.69</u>	<u>421.9</u>	<u>0.12</u>	<u>3.68</u>	<u>-102.4</u>	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield</u>				Sampler(s) Signatures: <u>K. Brakefield</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u>	Time: <u>0947</u>	Sampling completed Tube Dpth(ft): <u>9.0</u>	Time: <u>1002</u>		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID#	HNO3: <u>DS0077</u>	H2SO4: <u>N/A</u>		
Sample Container Specification		Sample Preservation			<u>DS0073</u>		
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
<u>3Q24-LF-3-F</u>	PE	<u>4000</u> <u>(500)</u>	Chill <6 C	<u>n/a</u>	<u>n/a</u>	Kanapaha: Physical	
<u>3Q24-LF-3-K</u>	PE	<u>250</u>	Chill <6 C	<u>n/a</u>	<u>n/a</u>	Pace: Anions	
<u>N/A</u>	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
<u>N/A</u>	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
<u>3Q24-LF-3-G</u>	PE	<u>250</u> <u>(500)</u>	HNO3	<u>0.5</u> <u>(1.0 mL)</u>	<u>1.3</u>	Kanapaha: Metals	
<u>3Q24-LF-3-L</u>	PE	<u>250</u>	HNO3	<u>0.5 mL</u>	<u>1.3</u>	Pace: Metals (preserved in field)	
<u>3Q24-LF-3-N</u>	PE	<u>2000</u>	HNO3	<u>4 mL</u>	<u>1.3</u>	Pace: Radium 226+228	

Tubing Depth is N/A ft below depth to water for every instance. Well found locked on arrival Well left locked on departure
 Temperature: 82°F Winds: NW @ 5 mph Cloud Cover: cloudy Precip: 0
 Remarks: EBLANK 2 collected at this location.

DGS Groundwater Sampling Log



WELL ID: LF-4	Location:	Latitude: 29°45'50.43"	Longitude: -82°23'58.46"	MSL @ TOC 184.83	Date In Service 2019
Quarter: <u>3Q24</u>	Date: <u>7/11/24</u>	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 16.06	Depth to water(ft) 7.05	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.06 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: <u>1012</u>
Well Vol = (16.06 - 7.05) X 0.6 = 5.41 L			1/4 well vol. = 1.35L
Init Tubing Dpth(ft): <u>9.0</u>	Final Tube Dept(ft): <u>9.0</u>	Purge Start Time: <u>1015</u>	Purge Stop time: _____
			Total Volume Purged L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1040	5.5	5.5	250	7.30	5.10	28.54	181.9	0.29	3.13	49.1	Clear slight orange color slight sulfur odor
1044	1.0	6.5	250	7.30	5.11	28.56	181.7	0.26	2.48	45.7	
1048	1.0	7.5	250	7.30	5.11	28.57	181.3	0.23	0.96	43.7	

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

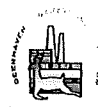
◆ FDEP SOP Section 2212.3

Sampling Data

Sampled By(Print): <u>K. Brakefield</u>				Sampler(s) Signatures: <u>K. Brakefield</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): <u>9.0</u> Time: <u>1050</u>		Sampling completed Tube Dpth(ft): <u>9.0</u> Time: <u>1104</u>			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input type="radio"/> NO <input checked="" type="radio"/>	Acid ID# HNO3: D50077 H2SO4: N/A				
Sample Container Specification		Sample Preservation			D50073		
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
<u>3Q24-LF-4-F</u>	PE	<u>4000</u> (<u>500</u>)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
<u>3Q24-LF-4-K</u>	PE	<u>250</u>	Chill <6 C	n/a	n/a	Pace: Anions	
<u>N/A</u>	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
<u>N/A</u>	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
<u>3Q24-LF-4-G</u>	PE	<u>250</u> (<u>500</u>)	HNO3	<u>0.5</u> (<u>1.0 mL</u>)	<u>1.3</u>	Kanapaha: Metals	
<u>3Q24-LF-4-L</u>	PE	<u>250</u>	HNO3	<u>0.5 mL</u>	<u>1.3</u>	Pace: Metals (preserved in field)	
<u>3Q24-LF-4-N</u>	PE	<u>2000</u>	HNO3	<u>4 mL</u>	<u>1.3</u>	Pace: Radium 226+228	
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure Temperature: <u>88°F</u> Winds: <u>NW @ 6 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>Ø</u> Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-5	Location:	Latitude: 29°45'53.70"	Longitude: -82°23'59.83"	MSL @ TOC 184.33	Date In Service 2020
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 7.45	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity			Time of Depth Meter Decon: 1120
Well Vol = (14.52 - 7.45) X 0.6 = 4.24 L			1/4 well vol. = 1.1 L
Init Tubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1123	Purge Stop time: 1151
			Total Volume Purged 6.5 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1143	4.5	4.5	250	7.83	5.39	27.56	1218	0.16	10.7	49.6	clear yellowish color slight sulfur odor
1147	1.0	5.5	250	7.85	5.37	27.56	1228	0.15	10.0	47.6	
1151	1.0	6.5	250	7.85	5.36	27.59	1240	0.16	6.92	45.2	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): <u>K. Brakefield</u>				Sampler(s) Signatures: <u>K. Brakefield</u>			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0	Time: 1154	Sampling completed Tube Dpth(ft): 9.0	Time: 1208		
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO	Acid ID# HNO3: D50077	H2SO4: N/A			
Sample Container Specification		Sample Preservation		D50073			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method	
<u>3Q24-LF-5-F</u>	<u>PE</u>	<u>4000</u> <input checked="" type="radio"/> <u>500</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Kanapaha: Physical</u>	
<u>3Q24-LF-5-K</u>	<u>PE</u>	<u>250</u>	<u>Chill <6 C</u>	<u>n/a</u>	<u>n/a</u>	<u>Pace: Anions</u>	
<u>NA</u>	<u>PE</u>	<u>250</u>	<u>H2SO4/Chill</u>	<u>0.5 mL</u>		<u>Pace: NO2/NO3 and TOC</u>	
<u>N/A</u>	<u>PE</u>	<u>1000</u>	<u>HNO3</u>	<u>2 mL</u>		<u>Pace: Gross Alpha</u>	
<u>3Q24-LF-5-G</u>	<u>PE</u>	<u>250</u> <input checked="" type="radio"/> <u>500</u>	<u>HNO3</u>	<u>0.5</u> <input checked="" type="radio"/> <u>1.0 mL</u>	<u>1.3</u>	<u>Kanapaha: Metals</u>	
<u>3Q24-LF-5-L</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>0.5 mL</u>	<u>1.3</u>	<u>Pace: Metals (preserved in field)</u>	
<u>3Q24-LF-5-N</u>	<u>PE</u>	<u>2000</u>	<u>HNO3</u>	<u>4 mL</u>	<u>1.3</u>	<u>Pace: Radium 226+228</u>	
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: <u>91.0 F</u> Winds: <u>NW @ 6 mph</u> Cloud Cover: <u>cloudy</u> Precip: <u>0</u>							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: LF-6	Location:	Latitude: 29°45'56.71"	Longitude: -82°23'59.75"	MSL @ TOC: 184.59	Date In Service: 2020
Quarter: 3Q24	Date: 7/11/24	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 7.36	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1239	
Well Vol = (14.52 - 7.36) X 0.6 = 4.3 L 1/4 well vol. = 1.1 L			
Init Tubing Dpth(ft): 9.0	Final Tube Depl(ft): 9.0	Purge Start Time: 1242	Purge Stop time: 1315
			Total Volume Purged 6.3 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1305	4.3	4.3	220	7.68	6.28	27.41	175.1	0.55	3.61	28.7	clear no color slight sulfur odor
1310	1.0	5.3	220	7.68	6.28	27.48	175.1	0.51	1.49	34.2	
1315	1.0	6.3	220	7.68	6.28	27.38	175.5	0.52	3.54	37.2	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield				Sampler(s) Signatures: K. Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1317		Sampling completed Tube Dpth(ft): 9.0 Time: 1333			
Field Decon: NO	Field Filtered: NO	Duplicate: YES <input checked="" type="radio"/> NO <input type="radio"/>	Acid ID# HNO3: D50077 H2SO4: N/A				
Sample Container Specification			Sample Preservation			Intended Analysis or method	
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH		
3Q24-LF-6-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical	
3Q24-LF-6-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions	
N/A	PE	250	H2SO4/Chill	0.5 mL		Pace: NO2/NO3 and TOC	
N/A	PE	1000	HNO3	2 mL		Pace: Gross Alpha	
3Q24-LF-6-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals	
3Q24-LF-6-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)	
3Q24-LF-6-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228	
Tubing Depth is N/A ft below depth to water for every instance. <input checked="" type="checkbox"/> Well found locked on arrival <input checked="" type="checkbox"/> Well left locked on departure							
Temperature: 92°F Winds: NW @ 5mph Cloud Cover: cloudy Precip: 0							
Remarks:							

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **EBLANK2**

Quarter: **3Q24**

Date: **7/11/24**

Purging Data

Purging Method: PP Equipment Volume = 750 mL

Well Collected At: **LF-3**

Purge Start Time: **N/A**

Time of Depth Meter Decon: **0903**

Purge Stop time: **N/A**

Sampling Data

FDEP SOP Section 2212.3

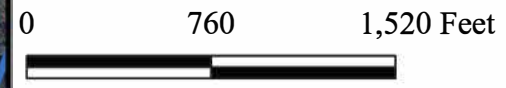
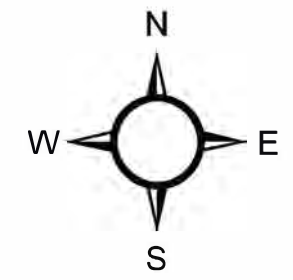
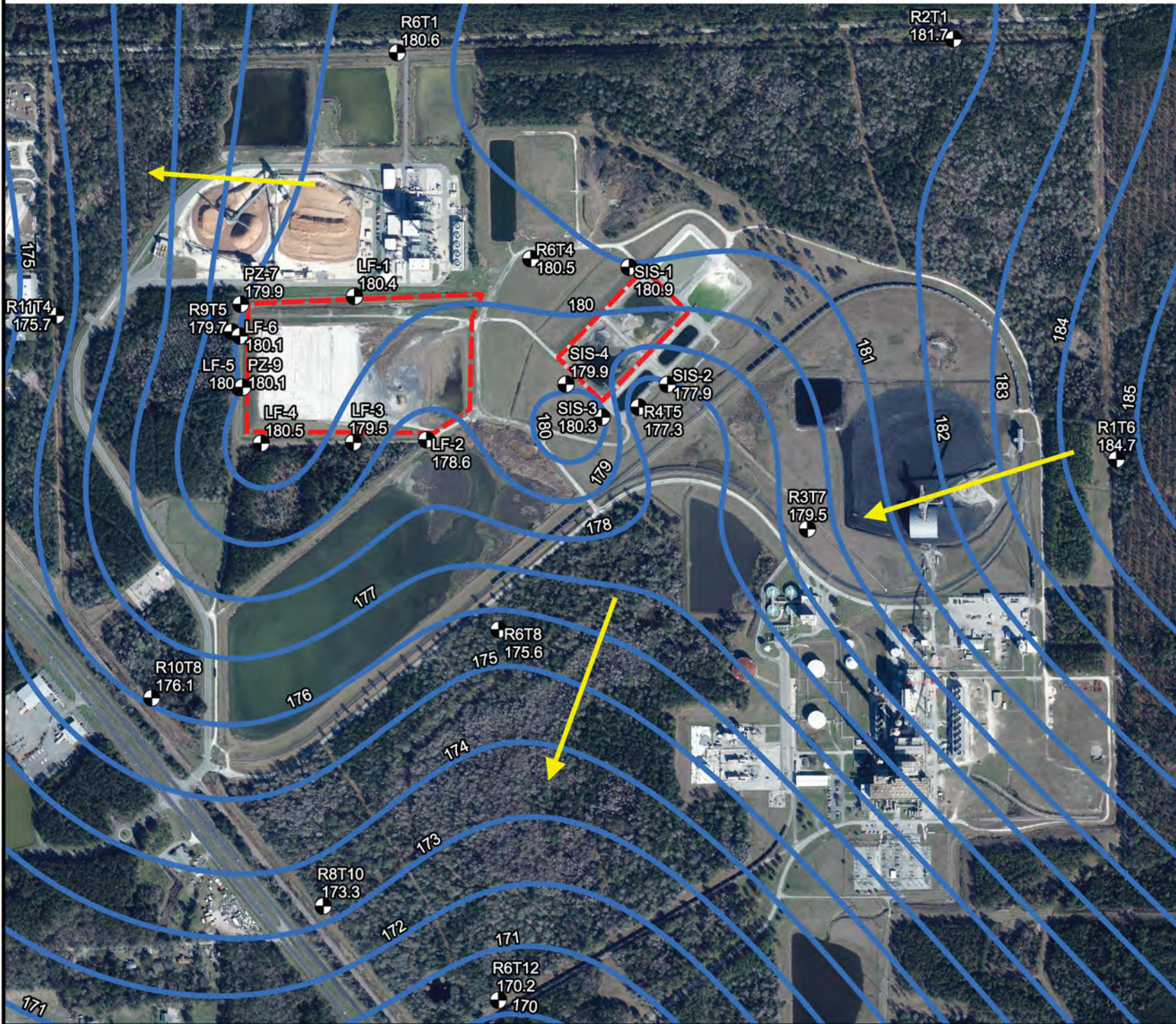
Decon Depth Mtr - rinse with analyte free water
 §Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield			Sampler(s) Signatures: K. Brakefield			
Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 0918		Sampling completed Time: 0921		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0077	H2SO4: N/A		
Sample Container Specification		Sample Preservation			Intended Analysis or method DS0073	
ID:	Material	Vol mL	Preservative	Vol Adde		final pH
3Q24-EBLANK2-K	PE	250	Chill <6 C	n/a	n/a	Pace Anions
3Q24-N/A	PE	250	H2SO4+Chill	0.5 mL		Pace NO2/NO3 and TOC
N/A	PE	1000	HNO3	2 mL		Pace Gross Alpha
3Q24-EBLANK2-G	PE	250 (500)	HNO3	0.5 (1 mL)	1.3	Kanapaha Metals
3Q24-EBLANK2-L	PE	250	HNO3	0.5 mL	1.3	Pace Metals (preserved in field)
3Q24-EBLANK2-N	PE	2000	HNO3	4 mL	1.3	Pace Radium 226+228

Well found locked on arrival **N/A** Well left locked on departure
 Temperature: **82°F** Winds: **NW @ 5 mph** Cloud Cover: **cloudy** Precip: **0**
 Remarks: **Depth probe was dipped into EB2 container after decon, and before collecting samples.**

Attachment C
Potentiometric Contours and Site-Wide
Groundwater Flow Direction, January
2024 and July 2024

CCR Units January 2024 Annual Groundwater Monitoring and Corrective Action Report



Legend

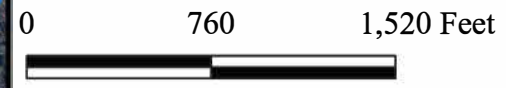
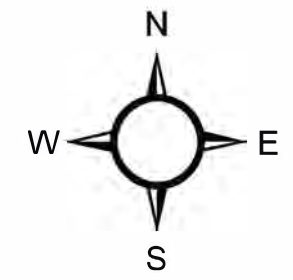
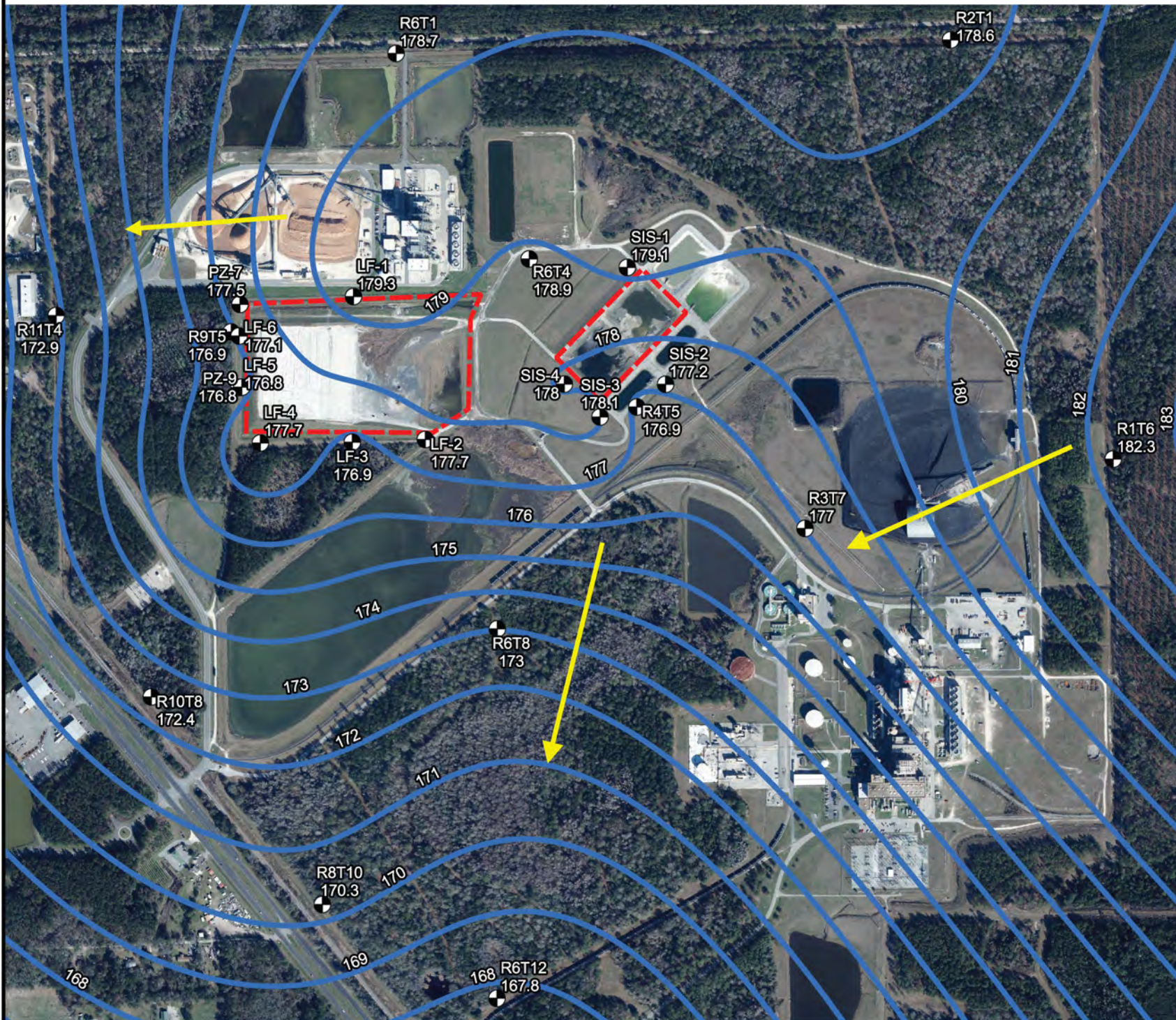
- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction January 8 to 17, 2024

- NOTES:
1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIALAQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
 2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
 3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
 4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: AD

CCR Units July 2024 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction July 10 to 11, 2024

- NOTES:**
1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIALAQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
 2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
 3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
 4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: AD