Gainesville Regional Utilities

Deerhaven Generating Station

Coal Combustion Residuals Units

2023 Annual Groundwater Monitoring and Corrective Action Report

Prepared for:

Gainesville Regional Utilities
Gainesville, Florida

Prepared by:

Innovative Technical Solutions
Gainesville, Florida

January 2024

TABLE OF CONTENTS

LIST OF TABLES

ATTACHMENTS

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 2023, both the surface impoundment system (SIS) and the landfill were under assessment monitoring.
- Both units remain in assessment monitoring as of the end of 2023.
- The following statistically significant increases (SSI) over background were noted for Appendix III parameters in 2023:
    - For the SIS: chloride (SIS-2), fluoride (SIS-2), and total dissolved solids (TDS) (SIS-4)
    - For the landfill: chloride (LF-2, LF-3, and LF-5), pH (LF-2, LF-4, and LF-5), sulfate (LF-2, LF-3, LF-4, LF-5, and LF-6), TDS (LF-3 and LF-5), and fluoride (LF-2, LF-4, and LF-5)
- Both the SIS and landfill entered into assessment monitoring January 10, 2018.
- 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 ceased in the SIS in 2021 and closure by removal was initiated in 2021. Removal of CCR in Ash Cell #1 was completed in this reporting period, 2023, and removal of CCR from Ash Cell #2 is ongoing and expected to be completed in the next reporting year, 2024. Ash removal and decontamination is anticipated to be completed in 2024.
- The site has a history of localized naturally occurring radiological activity on site. 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 2023.

2.0 Site Background

The Deerhaven Generating Station (site) has two CCR units: a surface impoundment system (SIS) and a landfill. The SIS is 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 interruption. As of July, 2021, the SIS no longer receives CCR material, and is currently undergoing closure by removal. CCR removal and unit decontamination has been completed from Ash Cell #1, and is currently underway for Ash Cell #2.

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 parameters are monitored as indicators of potential groundwater impacts but (with the exception of fluoride) are not subject to GWPS.

3.0 Well Installation and Decommissioning

Two networks of four groundwater monitoring wells (i.e., one upgradient and three downgradient wells for each CCR unit) were installed on March 7, 2017 (UES 2017) to monitor the SIS and landfill. Currently, 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) are used for monitoring groundwater quality around the SIS (UES 2020).

These wells provide 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 two piezometers 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 2023 under the AMP established in January 2018:

- Continued sampling of Appendix III and Appendix IV parameters under the AMP. A table summarizing the number of samples collected from each well, the date of sample collection and the period used to establish Appendix III prediction limits are included in Table 4-1 below. 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 underway for the SIS. GRU has completed ash removal and decontamination efforts for Ash Cell #1. GRU has initiated decontamination efforts in Ash Cell #2 and should conclude by mid-2024.

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

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						
7/23/2020			X	X			X	X	X	X		
9/3/2020												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
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
Total Samples Collected	**23**	**24**	**25**	**23**	**23**	**23**	**25**	**25**	**25**	**25**	**12**	**12**

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 16th, 2023.

5.0 Summary of Statistical Analysis Results

5.1 Appendix III Parameters

The existing 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. No prediction limits were updated this year. Table 5-1 and 5-2 summarize this analysis for Appendix III parameters. Note that boron was

detected in the equipment blank for both semiannual sampling events in this reporting year. For this reason, boron could not be assessed in this reporting year.

Per the existing assessment monitoring program, several SIS and landfill wells have shown a SSI over background as shown in Table 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.

Table 5-1. Appendix III Parameters with SSIs for the SIS Monitoring Wells

Parameter	Retest Strategy	Prediction Limit (mg/L)	Wells with an SSI	
			SIS-2	SIS-4
Chloride	1-of-2	20.5	X	
Fluoride	1-of-2	0.36	X	
TDS	1-of-2	465		X

Table 5-2. Appendix III Parameters with SSIs for the Landfill Monitoring Wells

Parameter	Retest Strategy	Prediction Limit (mg/L)	Wells with an SSI				
			LF-2	LF-3	LF-4	LF-5	LF-6
Chloride	1-of-3	22.2	X	X		X	
pH	1-of-2	5.18 - 6.47[1.]	X		X	X	
Sulfate	1-of-3	21.5	X	X	X	X	X
Fluoride	1-of-3	0.09	X		X	X	
TDS	1-of-3	403		X		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) has continued to be observed at LF-5 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 2023 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 are not current 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 is anticipated to be complete in early 2024. Decontamination is anticipated to be demonstrated for the SIS by the results of two monitoring events with no SSLs above the GWPS. These final two monitoring events are expected to be the July 2023 sampling event discussed in this report and the January 2024 monitoring event. Assuming the January 2024 monitoring event continues to show no SSLs above the GWPS, groundwater monitoring of the SIS will be terminated coincident with closure of the SIS.

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	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	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 both CCR units, both units 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)). Therefore, as of the date of this report, both CCR units are being monitored under an AMP.

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 concluded that the radium is a result of naturally-occurring, spatially-heterogeneous native clay layer located in the vicinity of LF-5 (ITS, 2023). Given the spatially and temporally heterogenous 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 a 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 GWPS of combined radium at LF-5. Combined radium will not be reported as an SSL above the GWPS for LF-5 moving forward.

7.0 Upcoming Activities

Prediction limits with retesting are expected to be updated next year 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 2024 (i.e., semi-annual) sampling of all previously-detected Appendix III/IV parameters and July 2024 (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.

Mercury and beryllium were not detected in the SIS wells, and mercury was not detected in the landfill wells. Therefore, these parameters will continue to be monitored annually at the respective units where these were not detected. If detected in the future, these parameters will be monitored semi-annually.

Closure activities for the SIS are expected to be completed in 2024 as described in the current SIS Closure Plan. Appendix III and IV parameters will continue to be monitored per the AMP for the CCR landfill. There are no current 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 is anticipated to be complete in early 2024.

Decontamination is anticipated to be demonstrated for the SLS by the results of two monitoring events with no SSLs above the GWPS. These final two monitoring events are expected to be the July 2023 sampling event discussed in this report and the upcoming January 2024 monitoring event. Assuming the January 2024 monitoring event continues to show no SSLs above the GWPS, monitoring of the SIS will be terminated coincident with closure of the SIS.

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 2023 and July 2024, respectively) were used to develop an estimate of the rate and direction of groundwater flow in the uppermost aquifer at the site. Potentiometric contour maps developed from this data using QGIS software are presented in Attachment C. The average gradient of the 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 0.04 feet per day.

9.0 References

ECT (2015). Arsenic and Gross Alpha Exceedances: Plan of Study. Deerhaven Generating Station, Gainesville, Florida.

IWCS (2018). 2018 Annual Groundwater Monitoring and Corrective Action Report. Prepared for Gainesville Regional Utilities, Deerhaven Generating Station by Innovative Waste Consulting Services, January 2018.

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

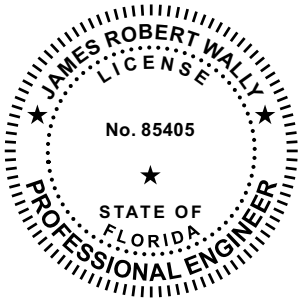
This plan was prepared under the supervision, direction and control of the undersigned, registered professional engineer (PE). The undersigned PE is familiar with and has prepared this annual groundwater monitoring and correction action report in accordance with the requirements of 40 CFR 257.90(e).

Name of Professional Engineer: James R. Wally

Company: Innovative Technical Solutions, LLC

PE Registration State: Florida

PE License No.: 85405



Digitally signed by James R Wally
Date: 2024.01.08 20:21:25 -05'00'

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

February 08, 2023

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

RE: Project: ENV1Q23
Pace Project No.: 35773346

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2023. 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 Radium 226+228 for 35773346019 was damaged during shipping to the sub lab and could not be reported.

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

Sincerely,

Jeff Baylor

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

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs
Shelley Phillips, Deerhaven Lab

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: ENV1Q23
Pace Project No.: 35773346

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: ENV1Q23
Pace Project No.: 35773346

Pace Analytical Services Ormond Beach
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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35773346001	1Q23-R1T6	Water	01/09/23 12:18	01/18/23 10:00
35773346002	1Q23-R2T1	Water	01/08/23 15:39	01/18/23 10:00
35773346003	1Q23-R3T7	Water	01/09/23 00:01	01/18/23 10:00
35773346004	1Q23-R4T5	Water	01/08/23 10:24	01/18/23 10:00
35773346005	1Q23-R6T1	Water	01/08/23 09:24	01/18/23 10:00
35773346006	1Q23-R6T4	Water	01/08/23 16:22	01/18/23 10:00
35773346007	1Q23-R6T8	Water	01/09/23 09:19	01/18/23 10:00
35773346008	1Q23-R6T12	Water	01/12/23 08:30	01/18/23 10:00
35773346009	1Q23-R8T10	Water	01/12/23 10:10	01/18/23 10:00
35773346010	1Q23-R9T5	Water	01/09/23 15:00	01/18/23 10:00
35773346011	1Q23-R10T8	Water	01/11/23 13:14	01/18/23 10:00
35773346012	1Q23-R11T4	Water	01/10/23 12:18	01/18/23 10:00
35773346013	1Q23-DEEP	Water	01/10/23 14:16	01/18/23 10:00
35773346014	1Q23-EBLANK1	Water	01/10/23 08:17	01/18/23 10:00
35773346015	1Q23-SIS-1	Water	01/10/23 09:19	01/18/23 10:00
35773346016	1Q23-SIS-2	Water	01/11/23 11:29	01/18/23 10:00
35773346017	1Q23-SIS-3	Water	01/11/23 09:16	01/18/23 10:00
35773346018	1Q23-SIS-4	Water	01/11/23 10:27	01/18/23 10:00
35773346019	1Q23-LF-1	Water	01/10/23 09:59	01/18/23 10:00
35773346020	1Q23-LF-2	Water	01/10/23 10:31	01/18/23 10:00
35773346021	1Q23-LF-3	Water	01/10/23 11:12	01/18/23 10:00
35773346022	1Q23-LF-4	Water	01/10/23 12:34	01/18/23 10:00
35773346023	1Q23-LF-5	Water	01/10/23 13:38	01/18/23 10:00
35773346024	1Q23-Barnstead	Water	01/08/23 07:44	01/18/23 10:00
35773346025	1Q23-LF-6	Water	01/10/23 14:38	01/18/23 10:00
35773346026	1Q23-EBLANK2	Water	01/11/23 10:37	01/18/23 10:00

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35773346001	**1Q23-R1T6**	EPA 200.7	AME	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346002	**1Q23-R2T1**	EPA 200.7	TMA	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346003	**1Q23-R3T7**	EPA 200.7	AME	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346004	**1Q23-R4T5**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	DBB1	4	PASI-A
		SM 7110C-11	KET	1	PASI-PA
		EPA 903.1	JDZ	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	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346005	**1Q23-R6T1**	EPA 200.7	TMA	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346006	**1Q23-R6T4**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	DBB1	4	PASI-A
		SM 7110C-11	KET	1	PASI-PA
		EPA 903.1	JDZ	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	MRC	1	PASI-O

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310B	EAD	1	PASI-O
35773346007	1Q23-R6T8	EPA 200.7	AME	2	PASI-O
		EPA 6020B	DBB1	4	PASI-A
		SM 7110C-11	KET	1	PASI-PA
		EPA 903.1	JDZ	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	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346008	1Q23-R6T12	EPA 200.7	TMA	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346009	1Q23-R8T10	EPA 200.7	TMA	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346010	1Q23-R9T5	EPA 200.7	TMA	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346011	1Q23-R10T8	EPA 200.7	AME	2	PASI-O
		EPA 6020B	DBB1	4	PASI-A
		SM 7110C-11	KET	1	PASI-PA
		EPA 903.1	JDZ	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	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346012	1Q23-R11T4	EPA 200.7	TMA	2	PASI-O
		EPA 6020B	CRW, DBB1	4	PASI-A
		SM 7110C-11	KET	1	PASI-PA

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 903.1	JDZ	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	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346013	**1Q23-DEEP**	EPA 200.7	AME	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346014	**1Q23-EBLANK1**	EPA 200.7	KPP	2	PASI-O
		SM 7110C-11	KET	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	MRC	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35773346015	**1Q23-SIS-1**	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346016	**1Q23-SIS-2**	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346017	**1Q23-SIS-3**	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346018	**1Q23-SIS-4**	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346019	**1Q23-LF-1**	EPA 6020B	DBB1	4	PASI-A

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	CMB	3	PASI-O
35773346020	1Q23-LF-2	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346021	1Q23-LF-3	EPA 6020B	CRW, DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346022	1Q23-LF-4	EPA 6020B	CRW, DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346023	1Q23-LF-5	EPA 6020B	CRW, DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346024	1Q23-Barnstead	EPA 200.7	KPP	2	PASI-O
		EPA 6020B	DBB1	4	PASI-A
		EPA 300.0	CMB	3	PASI-O
35773346025	1Q23-LF-6	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35773346026	1Q23-EBLANK2	EPA 6020B	DBB1	4	PASI-A
		EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-R4T5 **Lab ID: 35773346004** Collected: 01/08/23 10:24 Received: 01/18/23 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach								
Potassium	**360 I**	ug/L	1000	270	1	01/19/23 02:10	01/24/23 00:42	7440-09-7	
Sodium	**6510**	ug/L	2000	540	1	01/19/23 02:10	01/24/23 00:42	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 04:32	7440-36-0	
Boron	**15.3 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 12:46	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 04:32	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 04:32	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**4.3 I**	mg/L	5.0	2.5	1		01/28/23 06:16	16887-00-6	
Fluoride	**0.25**	mg/L	0.050	0.015	1		01/28/23 06:16	16984-48-8	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		01/28/23 06:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	**0.097**	mg/L	0.050	0.015	1		01/20/23 09:05		
5310B TOC	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**15.8**	mg/L	1.0	0.50	1		01/20/23 23:46	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-R6T4 **Lab ID: 35773346006** Collected: 01/08/23 16:22 Received: 01/18/23 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach								
Potassium	**1860**	ug/L	1000	270	1	01/19/23 02:10	01/24/23 00:46	7440-09-7	
Sodium	**73400**	ug/L	2000	540	1	01/19/23 02:10	01/24/23 00:46	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:10	7440-36-0	
Boron	**36.6 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 13:33	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:10	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:10	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**32.5**	mg/L	5.0	2.5	1		01/28/23 07:00	16887-00-6	
Fluoride	**0.060**	mg/L	0.050	0.015	1		01/28/23 07:00	16984-48-8	
Sulfate	**156**	mg/L	10.0	5.0	2		01/29/23 21:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	**0.033 I**	mg/L	0.050	0.015	1		01/20/23 09:07		
5310B TOC	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**8.8**	mg/L	1.0	0.50	1		01/21/23 00:14	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-EBLANK1 **Lab ID: 35773346014** Collected: 01/10/23 08:17 Received: 01/18/23 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach								
Potassium	**270 U**	ug/L	1000	270	1	01/19/23 02:10	01/20/23 15:28	7440-09-7	
Sodium	**540 U**	ug/L	2000	540	1	01/19/23 02:10	01/20/23 15:28	7440-23-5	
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		01/27/23 18:50	16887-00-6	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		01/27/23 18:50	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		01/27/23 09:52		
5310B TOC	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**0.50 U**	mg/L	1.0	0.50	1		01/21/23 02:52	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-1 **Lab ID: 35773346015** Collected: 01/10/23 09:19 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:26	7440-36-0	
Boron	**15.7 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 13:48	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:26	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:26	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**18.9**	mg/L	5.0	2.5	1		01/27/23 19:12	16887-00-6	
Fluoride	**0.20**	mg/L	0.050	0.015	1		01/27/23 19:12	16984-48-8	
Sulfate	**11.4**	mg/L	5.0	2.5	1		01/27/23 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-2 **Lab ID: 35773346016** Collected: 01/11/23 11:29 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:30	7440-36-0	
Boron	**21.6 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 13:52	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:30	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:30	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**28.9**	mg/L	5.0	2.5	1		01/27/23 20:19	16887-00-6	
Fluoride	**0.40**	mg/L	0.050	0.015	1		01/27/23 20:19	16984-48-8	
Sulfate	**69.4**	mg/L	5.0	2.5	1		01/27/23 20:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-3 **Lab ID: 35773346017** Collected: 01/11/23 09:16 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:34	7440-36-0	
Boron	**12.2 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 13:56	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:34	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:34	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**9.7**	mg/L	5.0	2.5	1		01/27/23 20:41	16887-00-6	
Fluoride	**0.11**	mg/L	0.050	0.015	1		01/27/23 20:41	16984-48-8	
Sulfate	**30.2**	mg/L	5.0	2.5	1		01/27/23 20:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-4 **Lab ID: 35773346018** Collected: 01/11/23 10:27 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:45	7440-36-0	
Boron	**12.9 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 14:00	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:45	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:45	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**11.1**	mg/L	5.0	2.5	1		01/27/23 21:03	16887-00-6	
Fluoride	**0.042 I**	mg/L	0.050	0.015	1		01/27/23 21:03	16984-48-8	
Sulfate	**43.7**	mg/L	5.0	2.5	1		01/27/23 21:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-1 **Lab ID: 35773346019** Collected: 01/10/23 09:59 Received: 01/18/23 10:00 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	**0.35 I**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:49	7440-36-0	
Boron	**129**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 14:04	7440-42-8	
Lithium	**5.3**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:49	7439-93-2	
Thallium	**0.12 I**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:49	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		01/27/23 21:25	16887-00-6	
Fluoride	**0.051**	mg/L	0.050	0.015	1		01/27/23 21:25	16984-48-8	
Sulfate	**16.2**	mg/L	5.0	2.5	1		01/27/23 21:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-2 **Lab ID: 35773346020** Collected: 01/10/23 10:31 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:53	7440-36-0	
Boron	**46.8 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 14:08	7440-42-8	
Lithium	**1.0 I**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:53	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:53	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**40.7**	mg/L	5.0	2.5	1		01/27/23 21:47	16887-00-6	
Fluoride	**0.27**	mg/L	0.050	0.015	1		01/27/23 21:47	16984-48-8	
Sulfate	**30.4**	mg/L	5.0	2.5	1		01/27/23 21:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-3 **Lab ID: 35773346021** Collected: 01/10/23 11:12 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 05:57	7440-36-0	
Boron	**1930**	ug/L	1250	212	25	01/31/23 13:36	02/01/23 17:08	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 05:57	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 05:57	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**23.5**	mg/L	5.0	2.5	1		01/27/23 22:09	16887-00-6	
Fluoride	**0.037 I**	mg/L	0.050	0.015	1		01/27/23 22:09	16984-48-8	
Sulfate	**106**	mg/L	10.0	5.0	2		01/29/23 22:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-4 **Lab ID: 35773346022** Collected: 01/10/23 12:34 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 06:01	7440-36-0	
Boron	**231**	ug/L	150	25.5	3	01/31/23 13:36	02/01/23 17:28	7440-42-8	
Lithium	**8.1**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 06:01	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 06:01	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**15.8**	mg/L	5.0	2.5	1		01/27/23 22:31	16887-00-6	
Fluoride	**0.042 I**	mg/L	0.050	0.015	1		01/27/23 22:31	16984-48-8	
Sulfate	**38.9**	mg/L	5.0	2.5	1		01/27/23 22:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-5 **Lab ID: 35773346023** Collected: 01/10/23 13:38 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 06:04	7440-36-0	
Boron	**1080**	ug/L	500	85.0	10	01/31/23 13:36	02/01/23 17:16	7440-42-8	
Lithium	**2.3 I**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 06:04	7439-93-2	
Thallium	**0.15 I**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 06:04	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**37.2**	mg/L	5.0	2.5	1		01/29/23 23:18	16887-00-6	
Fluoride	**0.092**	mg/L	0.050	0.015	1		01/29/23 23:18	16984-48-8	
Sulfate	**449**	mg/L	25.0	12.5	5		01/27/23 23:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-6 **Lab ID: 35773346025** Collected: 01/10/23 14:38 Received: 01/18/23 10:00 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	**0.35 I**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 06:12	7440-36-0	
Boron	**65.1**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 06:12	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 06:12	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 06:12	7440-28-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**5.3**	mg/L	5.0	2.5	1		01/28/23 00:22	16887-00-6	J(M1)
Fluoride	**0.050 I**	mg/L	0.050	0.015	1		01/28/23 00:22	16984-48-8	
Sulfate	**41.9**	mg/L	5.0	2.5	1		01/28/23 00:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-EBLANK2 **Lab ID: 35773346026** Collected: 01/11/23 10:37 Received: 01/18/23 10:00 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	**0.20 U**	ug/L	1.0	0.20	1	01/31/23 13:36	02/01/23 06:16	7440-36-0	
Boron	**16.1 I**	ug/L	50.0	8.5	1	01/31/23 13:36	02/01/23 06:16	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	01/31/23 13:36	02/01/23 06:16	7439-93-2	
Thallium	**0.050 U**	ug/L	0.47	0.050	1	01/31/23 13:36	02/01/23 06:16	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		01/28/23 01:28	16887-00-6	
Fluoride	**0.015 U**	mg/L	0.050	0.015	1		01/28/23 01:28	16984-48-8	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		01/28/23 01:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 887482 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013

METHOD BLANK: 4881405 — Matrix: Water
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Potassium	ug/L	270 U	1000	270	01/20/23 20:55	
Sodium	ug/L	540 U	2000	540	01/20/23 20:55	

LABORATORY CONTROL SAMPLE: 4881406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium	ug/L	12500	12700	101	85-115	
Sodium	ug/L	12500	12800	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4881407 4881408

Parameter	Units	35773230001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	2040000	12500	12500	2010000	1990000	-242	-419	70-130	1	20	J(M1), L
Sodium	ug/L	143000	12500	12500	155000	154000	99	85	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4881409 4881410

Parameter	Units	35773346008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	270 U	12500	12500	12600	12600	100	100	70-130	0	20	
Sodium	ug/L	12900	12500	12500	25700	25800	102	103	70-130	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 887483
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346014, 35773346024

METHOD BLANK: 4881453 Matrix: Water
Associated Lab Samples: 35773346014, 35773346024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Potassium	ug/L	270 U	1000	270	01/20/23 14:18	
Sodium	ug/L	540 U	2000	540	01/20/23 14:18	

LABORATORY CONTROL SAMPLE: 4881454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium	ug/L	12500	11900	95	85-115	
Sodium	ug/L	12500	12200	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4881455 4881456

Parameter	Units	35773120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	32.4 mg/L	12500	12500	44200	43900	94	92	70-130	1	20	
Sodium	ug/L	659 mg/L	12500	12500	656000	648000	-27	-87	70-130	1	20	J(M1), L

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 752808
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346019, 35773346020, 35773346021, 35773346022, 35773346023, 35773346024, 35773346025, 35773346026

METHOD BLANK: 3911177 Matrix: Water
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346019, 35773346020, 35773346021, 35773346022, 35773346023, 35773346024, 35773346025, 35773346026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.20 U	1.0	0.20	02/01/23 04:24	
Boron	ug/L	8.5 U	50.0	8.5	02/01/23 12:39	
Lithium	ug/L	0.50 U	2.5	0.50	02/01/23 04:24	
Thallium	ug/L	0.050 U	0.47	0.050	02/01/23 04:24	

LABORATORY CONTROL SAMPLE: 3911178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.6	97	80-120	
Boron	ug/L	50	48.0 I	96	80-120	
Lithium	ug/L	50	50.7	101	80-120	
Thallium	ug/L	25	25.4	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911179 3911180

Parameter	Units	35773346004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.20 U	50	50	50.2	50.5	100	101	75-125	1	20	
Boron	ug/L	15.3 I	50	50	69.2	69.4	108	108	75-125	0	20	
Lithium	ug/L	0.50 U	50	50	48.1	46.4	96	93	75-125	4	20	
Thallium	ug/L	0.050 U	25	25	25.9	25.6	104	103	75-125	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 889843 — 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: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010

METHOD BLANK: 4893366 — Matrix: Water
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/28/23 03:44	
Fluoride	mg/L	0.015 U	0.050	0.015	01/28/23 03:44	
Sulfate	mg/L	2.5 U	5.0	2.5	01/28/23 03:44	

LABORATORY CONTROL SAMPLE: 4893367

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	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895247 — 4895248

Parameter	Units	35773346002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.0	50	50	55.0	54.2	98	96	90-110	1	20	
Fluoride	mg/L	0.27	5	5	5.4	5.4	104	102	90-110	1	20	
Sulfate	mg/L	2.5 U	50	50	49.2	48.5	94	93	90-110	2	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 889889
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346011, 35773346012, 35773346013

METHOD BLANK: 4893581 Matrix: Water
Associated Lab Samples: 35773346011, 35773346012, 35773346013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/28/23 04:47	
Fluoride	mg/L	0.015 U	0.050	0.015	01/28/23 04:47	
Sulfate	mg/L	2.5 U	5.0	2.5	01/28/23 04:47	

LABORATORY CONTROL SAMPLE: 4893582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	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: 4895278 4895279

Parameter	Units	35773346013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.1	50	50	58.2	53.4	96	87	90-110	8	20	J(M1)
Fluoride	mg/L	0.38	5	5	5.4	4.9	101	91	90-110	9	20	
Sulfate	mg/L	45.3	50	50	98.5	93.2	107	96	90-110	6	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 889920
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346014, 35773346015, 35773346016, 35773346017, 35773346018, 35773346019, 35773346020, 35773346021, 35773346022, 35773346023, 35773346024, 35773346025, 35773346026

METHOD BLANK: 4893866 Matrix: Water
Associated Lab Samples: 35773346014, 35773346015, 35773346016, 35773346017, 35773346018, 35773346019, 35773346020, 35773346021, 35773346022, 35773346023, 35773346024, 35773346025, 35773346026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/27/23 17:44	
Fluoride	mg/L	0.015 U	0.050	0.015	01/27/23 17:44	
Sulfate	mg/L	2.5 U	5.0	2.5	01/27/23 17:44	

LABORATORY CONTROL SAMPLE: 4893867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.8	98	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895274 4895275

Parameter	Units	35773346015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.9	50	50	67.9	66.8	98	96	90-110	2	20	
Fluoride	mg/L	0.20	5	5	5.1	5.0	98	96	90-110	2	20	
Sulfate	mg/L	11.4	50	50	57.7	56.6	93	90	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895276 4895277

Parameter	Units	35773346025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.3	50	50	49.7	50.1	89	90	90-110	1	20	J(M1)
Fluoride	mg/L	0.050 I	5	5	4.8	4.9	96	97	90-110	1	20	
Sulfate	mg/L	41.9	50	50	92.5	93.0	101	102	90-110	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 890216
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346006, 35773346010, 35773346021, 35773346023

METHOD BLANK: 4895290 Matrix: Water
Associated Lab Samples: 35773346006, 35773346010, 35773346021, 35773346023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	01/29/23 17:01	
Fluoride	mg/L	0.015 U	0.050	0.015	01/29/23 17:01	
Sulfate	mg/L	2.5 U	5.0	2.5	01/29/23 17:01	

LABORATORY CONTROL SAMPLE: 4895291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895851 4895852

Parameter	Units	35773176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	88.1	100	100	188	195	100	107	90-110	3	20	
Fluoride	mg/L	0.13	5	5	5.3	5.4	103	105	90-110	2	20	
Sulfate	mg/L	100	100	100	200	207	100	107	90-110	3	20	L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895853 4895854

Parameter	Units	35773745002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.6	50	50	55.3	55.0	97	97	90-110	1	20	
Fluoride	mg/L	0.030 I	5	5	5.2	5.2	103	103	90-110	0	20	
Sulfate	mg/L	2.8 I	50	50	50.0	49.8	95	94	90-110	0	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 887875 — 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: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012

METHOD BLANK: 4883694 — Matrix: Water
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/20/23 08:39	

LABORATORY CONTROL SAMPLE: 4883695

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: 4883697 — 4883696

Parameter	Units	35773619013 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	0.73	2	2	2.7	2.7	98	99	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4883699 — 4883698

Parameter	Units	35773346003 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	0.27	2	2	2.3	2.3	99	100	90-110	0	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 889730
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346013, 35773346014

METHOD BLANK: 4892963 Matrix: Water
Associated Lab Samples: 35773346013, 35773346014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	01/27/23 09:23	

LABORATORY CONTROL SAMPLE: 4892964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892966 4892965

Parameter	Units	35774959004 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	1.8	1.9	91	92	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892968 4892967

Parameter	Units	35774960007 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	0.32	2	2	2.2	2.1	91	90	90-110	2	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 887994 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013, 35773346014

METHOD BLANK: 4884186 — Matrix: Water
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013, 35773346014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	01/20/23 22:02	

LABORATORY CONTROL SAMPLE: 4884187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4884188 4884189

Parameter	Units	35773658005 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	2.6	20	20	23.2	23.2	103	103	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4884190 4884191

Parameter	Units	35773346007 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	1.6	20	20	21.0	20.9	97	96	80-120	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-R4T5 **Lab ID: 35773346004** Collected: 01/08/23 10:24 Received: 01/18/23 10:00 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-11	**4.67 ± 1.84 (2.31) C:NA T:NA**	pCi/L	01/26/23 19:02	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.869U ± 0.468 (0.869) C:NA T:101%**	pCi/L	02/03/23 14:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.859U ± 0.350 (0.859) C:93% T:91%**	pCi/L	02/03/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.73U ± 0.818 (1.73)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-R6T4 **Lab ID: 35773346006** Collected: 01/08/23 16:22 Received: 01/18/23 10:00 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-11	**3.88 ± 1.77 (2.49) C:NA T:NA**	pCi/L	01/26/23 19:02	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.826U ± 0.489 (0.826) C:NA T:99%**	pCi/L	02/03/23 14:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.742U ± 0.335 (0.742) C:90% T:91%**	pCi/L	02/03/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.57U ± 0.824 (1.57)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-EBLANK1 **Lab ID: 35773346014** Collected: 01/10/23 08:17 Received: 01/18/23 10:00 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-11	**2.65U ± 1.52 (2.65) C:NA T:NA**	pCi/L	01/26/23 19:32	12587-46-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-1 **Lab ID: 35773346015** Collected: 01/10/23 09:19 Received: 01/18/23 10:00 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	**0.779U ± 0.347 (0.779) C:NA T:102%**	pCi/L	02/03/23 14:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.748U ± 0.340 (0.748) C:93% T:95%**	pCi/L	02/03/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.53U ± 0.687 (1.53)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-2 **Lab ID: 35773346016** Collected: 01/11/23 11:29 Received: 01/18/23 10:00 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	**0.724U ± 0.476 (0.724) C:NA T:101%**	pCi/L	02/03/23 14:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.771U ± 0.347 (0.771) C:94% T:86%**	pCi/L	02/03/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.50U ± 0.823 (1.50)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-3 **Lab ID: 35773346017** Collected: 01/11/23 09:16 Received: 01/18/23 10:00 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	**0.887U ± 0.478 (0.887) C:NA T:108%**	pCi/L	02/03/23 14:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.788U ± 0.386 (0.788) C:93% T:89%**	pCi/L	02/03/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.68U ± 0.864 (1.68)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-SIS-4 **Lab ID: 35773346018** Collected: 01/11/23 10:27 Received: 01/18/23 10:00 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	**0.937 ± 0.573 (0.703) C:NA T:93%**	pCi/L	02/03/23 14:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.647U ± 0.348 (0.647) C:92% T:84%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.47 ± 0.921 (1.35)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-2 **Lab ID: 35773346020** Collected: 01/10/23 10:31 Received: 01/18/23 10:00 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	**0.996 ± 0.700 (0.893) C:NA T:97%**	pCi/L	02/07/23 12:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.705U ± 0.383 (0.705) C:90% T:88%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.60U ± 1.08 (1.60)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-3 **Lab ID: 35773346021** Collected: 01/10/23 11:12 Received: 01/18/23 10:00 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	**1.31 ± 0.740 (0.921) C:NA T:78%**	pCi/L	02/03/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.684U ± 0.379 (0.684) C:90% T:87%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.94 ± 1.12 (1.61)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-4 **Lab ID: 35773346022** Collected: 01/10/23 12:34 Received: 01/18/23 10:00 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	**1.26 ± 0.587 (0.606) C:NA T:108%**	pCi/L	02/03/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.652U ± 0.329 (0.652) C:89% T:92%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.66 ± 0.916 (1.26)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-5 **Lab ID: 35773346023** Collected: 01/10/23 13:38 Received: 01/18/23 10:00 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	**7.36 ± 1.63 (0.920) C:NA T:97%**	pCi/L	02/03/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**3.59 ± 0.903 (0.825) C:87% T:86%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**10.9 ± 2.53 (1.75)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-LF-6 **Lab ID: 35773346025** Collected: 01/10/23 14:38 Received: 01/18/23 10:00 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	**0.675U ± 0.364 (0.675) C:NA T:95%**	pCi/L	02/03/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.734U ± 0.375 (0.734) C:91% T:92%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41U ± 0.739 (1.41)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

Sample: 1Q23-EBLANK2 **Lab ID: 35773346026** Collected: 01/11/23 10:37 Received: 01/18/23 10:00 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	**0.688U ± 0.317 (0.688) C:NA T:92%**	pCi/L	02/03/23 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.605U ± 0.291 (0.605) C:91% T:97%**	pCi/L	02/03/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.29U ± 0.608 (1.29)**	pCi/L	02/08/23 16:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 561890
QC Batch Method: SM 7110C-11
Analysis Method: SM 7110C-11
Analysis Description: 7110C Gross Alpha
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013, 35773346014

METHOD BLANK: 2729072
Matrix: Water
Associated Lab Samples: 35773346001, 35773346002, 35773346003, 35773346004, 35773346005, 35773346006, 35773346007, 35773346008, 35773346009, 35773346010, 35773346011, 35773346012, 35773346013, 35773346014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	1.89 ± 1.24 (1.89) C:NA T:NA	pCi/L	01/27/23 08:46	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 561794
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346020, 35773346021, 35773346022, 35773346023, 35773346025, 35773346026

METHOD BLANK: 2728649
Matrix: Water
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346020, 35773346021, 35773346022, 35773346023, 35773346025, 35773346026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.137 ± 0.235 (0.513) C:91% T:99%	pCi/L	02/03/23 11:27	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q23
Pace Project No.: 35773346

QC Batch: 561792
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346020, 35773346021, 35773346022, 35773346023, 35773346025, 35773346026

METHOD BLANK: 2728648
Matrix: Water
Associated Lab Samples: 35773346004, 35773346006, 35773346007, 35773346011, 35773346012, 35773346015, 35773346016, 35773346017, 35773346018, 35773346020, 35773346021, 35773346022, 35773346023, 35773346025, 35773346026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.261 ± 0.271 (0.403) C:NA T:101%	pCi/L	02/03/23 14:42	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: ENV1Q23
Pace Project No.: 35773346

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35773346001	**1Q23-R1T6**	EPA 200.7	887482	EPA 200.7	887505
35773346002	**1Q23-R2T1**	EPA 200.7	887482	EPA 200.7	887505
35773346003	**1Q23-R3T7**	EPA 200.7	887482	EPA 200.7	887505
35773346004	**1Q23-R4T5**	EPA 200.7	887482	EPA 200.7	887505
35773346005	**1Q23-R6T1**	EPA 200.7	887482	EPA 200.7	887505
35773346006	**1Q23-R6T4**	EPA 200.7	887482	EPA 200.7	887505
35773346007	**1Q23-R6T8**	EPA 200.7	887482	EPA 200.7	887505
35773346008	**1Q23-R6T12**	EPA 200.7	887482	EPA 200.7	887505
35773346009	**1Q23-R8T10**	EPA 200.7	887482	EPA 200.7	887505
35773346010	**1Q23-R9T5**	EPA 200.7	887482	EPA 200.7	887505
35773346011	**1Q23-R10T8**	EPA 200.7	887482	EPA 200.7	887505
35773346012	**1Q23-R11T4**	EPA 200.7	887482	EPA 200.7	887505
35773346013	**1Q23-DEEP**	EPA 200.7	887482	EPA 200.7	887505
35773346014	**1Q23-EBLANK1**	EPA 200.7	887483	EPA 200.7	887504
35773346024	**1Q23-Barnstead**	EPA 200.7	887483	EPA 200.7	887504
35773346004	**1Q23-R4T5**	EPA 3010A	752808	EPA 6020B	752920
35773346006	**1Q23-R6T4**	EPA 3010A	752808	EPA 6020B	752920
35773346007	**1Q23-R6T8**	EPA 3010A	752808	EPA 6020B	752920
35773346011	**1Q23-R10T8**	EPA 3010A	752808	EPA 6020B	752920
35773346012	**1Q23-R11T4**	EPA 3010A	752808	EPA 6020B	752920
35773346015	**1Q23-SIS-1**	EPA 3010A	752808	EPA 6020B	752920
35773346016	**1Q23-SIS-2**	EPA 3010A	752808	EPA 6020B	752920
35773346017	**1Q23-SIS-3**	EPA 3010A	752808	EPA 6020B	752920
35773346018	**1Q23-SIS-4**	EPA 3010A	752808	EPA 6020B	752920
35773346019	**1Q23-LF-1**	EPA 3010A	752808	EPA 6020B	752920
35773346020	**1Q23-LF-2**	EPA 3010A	752808	EPA 6020B	752920
35773346021	**1Q23-LF-3**	EPA 3010A	752808	EPA 6020B	752920
35773346022	**1Q23-LF-4**	EPA 3010A	752808	EPA 6020B	752920
35773346023	**1Q23-LF-5**	EPA 3010A	752808	EPA 6020B	752920
35773346024	**1Q23-Barnstead**	EPA 3010A	752808	EPA 6020B	752920
35773346025	**1Q23-LF-6**	EPA 3010A	752808	EPA 6020B	752920
35773346026	**1Q23-EBLANK2**	EPA 3010A	752808	EPA 6020B	752920
35773346001	**1Q23-R1T6**	SM 7110C-11	561890		
35773346002	**1Q23-R2T1**	SM 7110C-11	561890		
35773346003	**1Q23-R3T7**	SM 7110C-11	561890		
35773346004	**1Q23-R4T5**	SM 7110C-11	561890		
35773346005	**1Q23-R6T1**	SM 7110C-11	561890		
35773346006	**1Q23-R6T4**	SM 7110C-11	561890		
35773346007	**1Q23-R6T8**	SM 7110C-11	561890		
35773346008	**1Q23-R6T12**	SM 7110C-11	561890		
35773346009	**1Q23-R8T10**	SM 7110C-11	561890		
35773346010	**1Q23-R9T5**	SM 7110C-11	561890		
35773346011	**1Q23-R10T8**	SM 7110C-11	561890		
35773346012	**1Q23-R11T4**	SM 7110C-11	561890		
35773346013	**1Q23-DEEP**	SM 7110C-11	561890		
35773346014	**1Q23-EBLANK1**	SM 7110C-11	561890		
35773346004	**1Q23-R4T5**	EPA 903.1	561792		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35773346006	**1Q23-R6T4**	EPA 903.1	561792		
35773346007	**1Q23-R6T8**	EPA 903.1	561792		
35773346011	**1Q23-R10T8**	EPA 903.1	561792		
35773346012	**1Q23-R11T4**	EPA 903.1	561792		
35773346015	**1Q23-SIS-1**	EPA 903.1	561792		
35773346016	**1Q23-SIS-2**	EPA 903.1	561792		
35773346017	**1Q23-SIS-3**	EPA 903.1	561792		
35773346018	**1Q23-SIS-4**	EPA 903.1	561792		
35773346020	**1Q23-LF-2**	EPA 903.1	561792		
35773346021	**1Q23-LF-3**	EPA 903.1	561792		
35773346022	**1Q23-LF-4**	EPA 903.1	561792		
35773346023	**1Q23-LF-5**	EPA 903.1	561792		
35773346025	**1Q23-LF-6**	EPA 903.1	561792		
35773346026	**1Q23-EBLANK2**	EPA 903.1	561792		
35773346004	**1Q23-R4T5**	EPA 904.0	561794		
35773346006	**1Q23-R6T4**	EPA 904.0	561794		
35773346007	**1Q23-R6T8**	EPA 904.0	561794		
35773346011	**1Q23-R10T8**	EPA 904.0	561794		
35773346012	**1Q23-R11T4**	EPA 904.0	561794		
35773346015	**1Q23-SIS-1**	EPA 904.0	561794		
35773346016	**1Q23-SIS-2**	EPA 904.0	561794		
35773346017	**1Q23-SIS-3**	EPA 904.0	561794		
35773346018	**1Q23-SIS-4**	EPA 904.0	561794		
35773346020	**1Q23-LF-2**	EPA 904.0	561794		
35773346021	**1Q23-LF-3**	EPA 904.0	561794		
35773346022	**1Q23-LF-4**	EPA 904.0	561794		
35773346023	**1Q23-LF-5**	EPA 904.0	561794		
35773346025	**1Q23-LF-6**	EPA 904.0	561794		
35773346026	**1Q23-EBLANK2**	EPA 904.0	561794		
35773346004	**1Q23-R4T5**	Total Radium Calculation	565639		
35773346006	**1Q23-R6T4**	Total Radium Calculation	565639		
35773346007	**1Q23-R6T8**	Total Radium Calculation	565639		
35773346011	**1Q23-R10T8**	Total Radium Calculation	565639		
35773346012	**1Q23-R11T4**	Total Radium Calculation	565639		
35773346015	**1Q23-SIS-1**	Total Radium Calculation	565639		
35773346016	**1Q23-SIS-2**	Total Radium Calculation	565639		
35773346017	**1Q23-SIS-3**	Total Radium Calculation	565639		
35773346018	**1Q23-SIS-4**	Total Radium Calculation	565639		
35773346020	**1Q23-LF-2**	Total Radium Calculation	565639		
35773346021	**1Q23-LF-3**	Total Radium Calculation	565639		
35773346022	**1Q23-LF-4**	Total Radium Calculation	565639		
35773346023	**1Q23-LF-5**	Total Radium Calculation	565639		
35773346025	**1Q23-LF-6**	Total Radium Calculation	565639		
35773346026	**1Q23-EBLANK2**	Total Radium Calculation	565639		
35773346001	**1Q23-R1T6**	EPA 300.0	889843		
35773346002	**1Q23-R2T1**	EPA 300.0	889843		
35773346003	**1Q23-R3T7**	EPA 300.0	889843		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35773346004	**1Q23-R4T5**	EPA 300.0	889843		
35773346005	**1Q23-R6T1**	EPA 300.0	889843		
35773346006	**1Q23-R6T4**	EPA 300.0	889843		
35773346006	**1Q23-R6T4**	EPA 300.0	890216		
35773346007	**1Q23-R6T8**	EPA 300.0	889843		
35773346008	**1Q23-R6T12**	EPA 300.0	889843		
35773346009	**1Q23-R8T10**	EPA 300.0	889843		
35773346010	**1Q23-R9T5**	EPA 300.0	889843		
35773346010	**1Q23-R9T5**	EPA 300.0	890216		
35773346011	**1Q23-R10T8**	EPA 300.0	889889		
35773346012	**1Q23-R11T4**	EPA 300.0	889889		
35773346013	**1Q23-DEEP**	EPA 300.0	889889		
35773346014	**1Q23-EBLANK1**	EPA 300.0	889920		
35773346015	**1Q23-SIS-1**	EPA 300.0	889920		
35773346016	**1Q23-SIS-2**	EPA 300.0	889920		
35773346017	**1Q23-SIS-3**	EPA 300.0	889920		
35773346018	**1Q23-SIS-4**	EPA 300.0	889920		
35773346019	**1Q23-LF-1**	EPA 300.0	889920		
35773346020	**1Q23-LF-2**	EPA 300.0	889920		
35773346021	**1Q23-LF-3**	EPA 300.0	889920		
35773346021	**1Q23-LF-3**	EPA 300.0	890216		
35773346022	**1Q23-LF-4**	EPA 300.0	889920		
35773346023	**1Q23-LF-5**	EPA 300.0	889920		
35773346023	**1Q23-LF-5**	EPA 300.0	890216		
35773346024	**1Q23-Barnstead**	EPA 300.0	889920		
35773346025	**1Q23-LF-6**	EPA 300.0	889920		
35773346026	**1Q23-EBLANK2**	EPA 300.0	889920		
35773346001	**1Q23-R1T6**	EPA 353.2	887875		
35773346002	**1Q23-R2T1**	EPA 353.2	887875		
35773346003	**1Q23-R3T7**	EPA 353.2	887875		
35773346004	**1Q23-R4T5**	EPA 353.2	887875		
35773346005	**1Q23-R6T1**	EPA 353.2	887875		
35773346006	**1Q23-R6T4**	EPA 353.2	887875		
35773346007	**1Q23-R6T8**	EPA 353.2	887875		
35773346008	**1Q23-R6T12**	EPA 353.2	887875		
35773346009	**1Q23-R8T10**	EPA 353.2	887875		
35773346010	**1Q23-R9T5**	EPA 353.2	887875		
35773346011	**1Q23-R10T8**	EPA 353.2	887875		
35773346012	**1Q23-R11T4**	EPA 353.2	887875		
35773346013	**1Q23-DEEP**	EPA 353.2	889730		
35773346014	**1Q23-EBLANK1**	EPA 353.2	889730		
35773346001	**1Q23-R1T6**	SM 5310B	887994		
35773346002	**1Q23-R2T1**	SM 5310B	887994		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q23
Pace Project No.: 35773346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35773346003	**1Q23-R3T7**	SM 5310B	887994		
35773346004	**1Q23-R4T5**	SM 5310B	887994		
35773346005	**1Q23-R6T1**	SM 5310B	887994		
35773346006	**1Q23-R6T4**	SM 5310B	887994		
35773346007	**1Q23-R6T8**	SM 5310B	887994		
35773346008	**1Q23-R6T12**	SM 5310B	887994		
35773346009	**1Q23-R8T10**	SM 5310B	887994		
35773346010	**1Q23-R9T5**	SM 5310B	887994		
35773346011	**1Q23-R10T8**	SM 5310B	887994		
35773346012	**1Q23-R11T4**	SM 5310B	887994		
35773346013	**1Q23-DEEP**	SM 5310B	887994		
35773346014	**1Q23-EBLANK1**	SM 5310B	887994		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

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

WO# : 35773346

35773346

Company: Gainesville Regional Utilities	Billing Information: PO#4510057587
Address: 10001 NW 13th St, Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV1Q23	State: FL County/City: Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-6346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB; Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: 4510057587 Quote #:; DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal; Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply); 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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:
1Q23-R1T6	GW	Grab						4	X	X	X	X	X						
1Q23-R2T1	GW	Grab						4	X	X	X	X	X						
1Q23-R3T7	GW	Grab						4	X	X	X	X	X						
1Q23-R4T5	GW	Grab						5		X	X	X	X	X	X	X			
1Q23-R6T1	GW	Grab						4	X	X	X	X	X						
1Q23-R6T4	GW	Grab						5		X	X	X	X	X	X	X			
1Q23-R6T8	GW	Grab						5		X	X	X	X	X	X	X			
1Q23-R6T12	GW	Grab						4	X	X	X	X	X						
1Q23-R8T10	GW	Grab						4	X	X	X	X	X						
1Q23-R9T5	GW	Grab						4	X	X	X	X	X						

Analyses

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: Arrives in multiples pkgs

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: T-407
Cooler 1 Temp Upon Receipt: 6.0 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kimberly R Morrison GRU	1/17/23 11:30	2nd Male	1/18/23 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

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

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent 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	Billing Information: PO#4510057587
Address: 10001 NW 13th St, Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV1Q23	State: FL County/City: Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-6346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB
Collected By (print):	Purchase Order #: 4510057587 Quote #:
Collected By (signature):	Turnaround Date Required: Normal
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:

DW Location Code:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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		
1Q23-R10T8	GW	Grab						5		X	X	X	X	X	X	X		
1Q23-R11T4	GW	Grab						5		X	X	X	X	X	X	X		
1Q23-DEEP	GW	Grab						4	X	X	X	X	X					
1Q23-EBLANK1	GW	Grab						4	X	X	X	X	X					
1Q23-SIS-1	GW	Grab						3						X	X	X		
1Q23-SIS-2	GW	Grab						3						X	X	X		
1Q23-SIS-3	GW	Grab						3						X	X	X		
1Q23-SIS-4	GW	Grab						3						X	X	X		
1Q23-LF-1	GW	Grab						3						X	X	X		
1Q23-LF-2	GW	Grab						3						X	X	X		

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: Arrives in multiple pkgs

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: IR17
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature) Kimberly Rhorer	Date/Time: 1/17/23 11:30	Received by/Company: (Signature) FedEx Ground	Date/Time: 1/18/24 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

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

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent 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	Billing Information: PO#4510057587
Address: 10001 NW 13th St. Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV1Q23	State: FL County/City: Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-6346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB
Collected By (print):	Purchase Order #: 4510057587 Quote #:
Collected By (signature):	Turnaround Date Required: Normal
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

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 **

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 Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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		
Container Preservative Type **									ICE	2	2	1	1	ICE	1	1		
1Q23-LF-3	GW	Grab						3						X	X	X		
1Q23-LF-4	GW	Grab						3						X	X	X		
1Q23-LF-5	GW	Grab						3						X	X	X		
1Q23-Barnstead	GW	Grab						2					X	X	X			
1Q23-LF-6	GW	Grab						3						X	X	X		
1Q23-EBLANK2	GW	Grab						3						X	X	X		

Analyses

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: Arrives in multiple pkgs

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: T-116
Cooler 1 Temp Upon Receipt: 1.0 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 0.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kimberly Morrison	1/17/23 11:30	GRU Pace	1/17/23 1200
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 3

Pace Container Order #1039257

Addresses

Order By :		Ship To :		Return To:	
Company	Deerhaven Lab	Company	Deerhaven Lab	Company	Pace Analytical Ormond Beach
Contact	Boudreau, Jeffery	Contact	Boudreau, Jeffery	Contact	Baylor, Jeff
Email	boudreaujp@gru.com	Email	boudreaujp@gru.com	Email	jeff.baylor@pacelabs.com
Address	10001 NW 13th Street	Address	10001 NW 13th Street	Address	8 East Tower Circle
Address 2		Address 2		Address 2	
City	Gainesville	City	Gainesville	City	Ormond Beach
State	FL Zip 32653	State	FL Zip 32653	State	FL Zip 32174
Phone	(352) 393-6349	Phone	(352) 393-6349	Phone	(386)672-5668

Info

Project Name	Cooler	**Due Date**	01/06/2023	**Profile**	NA	**Quote**	
Project Manager	Baylor, Jeff	**Return Date**		**Carrier**	FedEx Ground	**Location**	FL

Trip Blanks

- [ ] Include Trip Blanks

Bottle Labels

- [ ] Blank
- [ ] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample ID/Matrix

Return Shipping Labels

- [ ] No Shipper
- [ ] With Shipper

COC Options

- [ ] Number of Blanks
- [ ] Pre-Printed

Misc

- [ ] Sampling Instructions
- [ ] Custody Seal
- [ ] Temp. Blanks
- [X] Coolers 2
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
2	WT	Coolers	large	2			

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 8:00am-6:00pm and Sat 10:00am-6:00pm unless special arrangements are made with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	01/06/2023
Prepared By:	AJ
Verified By:	

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Pace

CUR)

WO# : 35773346
PM: JSB Due Date: 02/03/23
CLIENT: DEELAB

Project #
Project Manager:
Client:

Date and Initials of person:
Examining contents: VLW
Label:
Deliver:
pH:

Thermometer Used: T-407 Date: 11/8/23 Time: 1011 Initials: ZAB

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

Cooler #1 Temp.°C	9.0 (Visual)	-0.1	(Correction Factor)	8.9 (Actual)	retail ☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	15.8 (Visual)		(Correction Factor)	15.7 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	15.9 (Visual)		(Correction Factor)	15.8 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	16.1 (Visual)		(Correction Factor)	16.0 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	17.0 (Visual)		(Correction Factor)	16.9 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	3.0 (Visual)		(Correction Factor)	2.9 (Actual)	☐ Samples on ice, cooling process has begun
Recheck for OOT °C	(Visual)		(Correction Factor)	(Actual) Time:	Initials:

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

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

Billing: ☐ Recipient ☐ Sender ☑ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8167 0938 2915

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Melted None

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

		Comments:
Chain of Custody Present	☑Yes ☐No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐No ☐N/A	No dates/times on COC - BLP
Relinquished Signature & Sampler Name COC	☑Yes ☐No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐No ☐N/A	
Rush TAT requested on COC	☐Yes ☑No ☐N/A	
Sufficient Volume	☑Yes ☐No ☐N/A	
Correct Containers Used	☑Yes ☐No ☐N/A	
Containers Intact	☑Yes ☐No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☑Yes ☐No ☐N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Exceptions: Vials, Microbiology, O&G, PFAS		
Headspace in VOA Vials? (>6mm):	☐Yes ☐No ☑N/A	
Trip Blank Present:	☐Yes ☐No ☑N/A	

Comments/ Resolution (use back for additional comments):

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

March 08, 2023

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

RE: Project: ENV1Q23 Resample
Pace Project No.: 35780950

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2023. 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 - 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
Shelley Phillips, Deerhaven Lab

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: ENV1Q23 Resample
Pace Project No.: 35780950

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: ENV1Q23 Resample
Pace Project No.: 35780950

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35780950001	**1Q23-LF-1**	Water	02/16/23 09:43	02/21/23 11:15

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV1Q23 Resample
Pace Project No.: 35780950

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35780950001	**1Q23-LF-1**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q23 Resample
Pace Project No.: 35780950

Sample: 1Q23-LF-1 **Lab ID: 35780950001** Collected: 02/16/23 09:43 Received: 02/21/23 11:15 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	**1.35 ± 0.790 (1.00) C:NA T:95%**	pCi/L	03/07/23 17:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.676U ± 0.315 (0.676) C:85% T:86%**	pCi/L	03/07/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.68U ± 1.11 (1.68)**	pCi/L	03/08/23 14:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q23 Resample
Pace Project No.: 35780950

QC Batch: 569313
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35780950001

METHOD BLANK: 2764759 Matrix: Water
Associated Lab Samples: 35780950001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0666 ± 0.279 (0.636) C:80% T:90%	pCi/L	03/07/23 14:57	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q23 Resample
Pace Project No.: 35780950

QC Batch: 569312
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35780950001

METHOD BLANK: 2764758 Matrix: Water
Associated Lab Samples: 35780950001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.179 ± 0.351 (0.642) C:NA T:86%	pCi/L	03/07/23 17:08	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: ENV1Q23 Resample
Pace Project No.: 35780950

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

U	Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q23 Resample
Pace Project No.: 35780950

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35780950001	**1Q23-LF-1**	EPA 903.1	569312		
35780950001	**1Q23-LF-1**	EPA 904.0	569313		
35780950001	**1Q23-LF-1**	Total Radium Calculation	572419		

WO#: 35780950

35780950

TODY Analytical Request Document

a LEGAL DOCUMENT - Complete all relevent 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

Gainesville Regional Utilities

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

Billing Information: PO#4510057587

Report To: Jeff Boudreau

Email To: boudreaujp@gru.com

Copy To:

Site Collection Info/Address: Deerhaven Generating Station

Customer Project Name/Number: ENV1Q23 Resample

State: FL County/City: Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone: 352-393-6346
Email: boudreaujp@gru.com

Site/Facility ID #: 35-000113 / DEELAB

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): K MORRISON

Purchase Order #: 4510057587
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Kimberly Morrison

Turnaround Date Required: Normal

Immediately Packed on Ice: [✓] Yes [ ] No

Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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:
1Q23-LF-1	GW	Grab	2-16-23	09:43				1								X			
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	
	GW	Grab																	

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:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

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:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Kimberly Morrison	2/16/23 13:00	Vn Wt / pace	2/21/23 1115
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3

Page 10 of 11

Pace

Sample Condition Upon Receipt Form (SCUR)

WO# : 35780950

Project #
Project Manager: PM: JSB Due Date: 03/09/23
Client: CLIENT: DEELAB

Date and Initials of person:
Examining contents:
Label:
Deliver: DAT
pH:

Thermometer Used: T-399 Date: 2/21/23 Time: Initials: KWT

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

Cooler #1 Temp.°C 7.6.0 **(Visual)** -0.1 **(Correction Factor)** 25.9 **(Actual)** KAD ☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual)** ☐ Samples on ice, cooling process has begun
Recheck for OOT °C _____ **(Visual)** _____ **(Correction Factor)** _____ **(Actual) Time:** _____ **Initials:** _____

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☑ Other Express Saver
Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown
Tracking # 8176 0938 2926

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Melted (None)
Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑Yes ☐ No ☐N/A	Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☑N/A	
Trip Blank Present:	☐Yes ☐ No ☑N/A	

Comments/ Resolution (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 09, 2023

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 1/9/2023. 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

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K23A020-01	R1T6 (MWD-1-6)	Groundwater	01/09/2023 12:18	01/10/2023 07:48
K23A020-02	R2T1 (MWB-2-1)	Groundwater	01/08/2023 15:39	01/09/2023 08:01
K23A020-03	R3T7 (MWI-3-7)	Groundwater	01/09/2023 14:23	01/10/2023 07:48
K23A020-04	R4T5B (MWI-4-5)	Groundwater	01/08/2023 10:24	01/09/2023 08:01
K23A020-05	R6T1B (MWD-6-1)	Groundwater	01/08/2023 09:24	01/09/2023 08:01
K23A020-06	R6T4B (MWI-6-4)	Groundwater	01/08/2023 16:22	01/09/2023 08:01
K23A020-07	R6T8B (MWI-6-8)	Groundwater	01/09/2023 09:19	01/10/2023 07:48
K23A020-08	R6T12 (MWD-6-12)	Groundwater	01/12/2023 08:30	01/12/2023 14:06
K23A020-09	R8T10 (MWC-8-10)	Groundwater	01/12/2023 10:10	01/12/2023 14:06
K23A020-10	R9T5B (MWI-9-5)	Groundwater	01/09/2023 15:06	01/10/2023 07:48
K23A020-11	R10T8 (MWC-10-8)	Groundwater	01/11/2023 13:14	01/12/2023 09:20
K23A020-12	R11T4B (MWC-11-4)	Groundwater	01/11/2023 12:18	01/12/2023 09:20
K23A020-13	DEEP-1 (MWC-DEEP)	Groundwater	01/11/2023 14:10	01/12/2023 09:20
K23A020-14	EBLANK1	Water	01/10/2023 08:17	01/12/2023 09:20
K23A020-15	BARNSTEAD	Water	01/08/2023 07:44	01/09/2023 08:01

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

R4T5B (MWI-4-5)

K23A020-04 (Groundwater, Grab)

Collected: 01/08/2023 10:24 am

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Metals by EPA 200 Series Methods									
Aluminum	82.7		5.0	20.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Arsenic	3.3	I	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Barium	10.7		0.2	0.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Calcium	104		0.10	0.40	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Iron	20000		42.0	168	ug/L	10	01/31/2023	02/02/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Magnesium	32.6		0.01	0.04	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Manganese	106		1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Silver	0.6	U, J(L1)	0.6	2.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Strontium	93.7		0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/24/2023	01/24/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Color	68		10	40	Color Units	2	01/09/2023	01/09/2023	SM 2120B
Total Dissolved Solids	450		10	40	mg/L	1	01/10/2023	01/10/2023	SM 2540C
TSS	1	U	1	4	mg/L	1	01/10/2023	01/10/2023	SM 2540D

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

R6T4B (MWI-6-4)

K23A020-06 (Groundwater, Grab)

Collected: 01/08/2023 4:22 pm

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Metals by EPA 200 Series Methods									
Aluminum	79.6		5.0	20.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Barium	26.4		0.2	0.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Calcium	46.9		0.10	0.40	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Iron	1280		4.2	16.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Magnesium	8.23		0.01	0.04	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Manganese	48.2		1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Nickel	5.1		1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Silver	0.6	U, J(L1)	0.6	2.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Strontium	103		0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Vanadium	20.3		3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Zinc	2.6	I	2.1	8.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/24/2023	01/24/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Color	28		5	20	Color Units	1	01/09/2023	01/09/2023	SM 2120B
Total Dissolved Solids	360		10	40	mg/L	1	01/10/2023	01/10/2023	SM 2540C
TSS	1	U	1	4	mg/L	1	01/10/2023	01/10/2023	SM 2540D

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

EBLANK1

K23A020-14 (Water, Grab)

Collected: 01/10/2023 8:17 am

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Metals by EPA 200 Series Methods									
Aluminum	5.0	U	5.0	20.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Barium	0.2	U	0.2	0.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Iron	4.2	U	4.2	16.8	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Magnesium	0.01	U	0.01	0.04	mg/L	1	01/31/2023	02/02/2023	EPA 200.7
Manganese	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Silver	0.6	U, J(L1)	0.6	2.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Strontium	0.3	U	0.3	1.2	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Zinc	2.3	I	2.1	8.4	ug/L	1	01/31/2023	02/02/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/24/2023	01/24/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A153 - MERCURY											
Blank (B23A153-BLK1)							Prepared & Analyzed: 1/24/2023				
Mercury	0.100	U	0.100	0.400	ug/L						
LCS (B23A153-BS1)							Prepared & Analyzed: 1/24/2023				
Mercury	1.99		0.100	0.400	ug/L	2.00		99.7	90-110		
Duplicate (B23A153-DUP1)		**Source: K23A020-03**					Prepared & Analyzed: 1/24/2023				
Mercury	0.100	U	0.100	0.400	ug/L		ND			NR	
Duplicate (B23A153-DUP2)		**Source: K23A020-12**					Prepared & Analyzed: 1/24/2023				
Mercury	0.100	U	0.100	0.400	ug/L		ND			NR	
Matrix Spike (B23A153-MS1)		**Source: K23A020-03**					Prepared & Analyzed: 1/24/2023				
Mercury	2.02		0.100	0.400	ug/L	2.00	ND	101	90-110		
Matrix Spike (B23A153-MS2)		**Source: K23A020-12**					Prepared & Analyzed: 1/24/2023				
Mercury	1.94		0.100	0.400	ug/L	2.00	ND	96.9	90-110		
Batch B23A198 - EPA 200.7											
Blank (B23A198-BLK1)							Prepared: 1/31/2023 Analyzed: 2/2/2023				
Silver	0.6	U	0.6	2.4	ug/L						
Aluminum	5.0	U	5.0	20.0	ug/L						
Lead	3.0	U	3.0	12.0	ug/L						
Nickel	1.0	U	1.0	4.0	ug/L						
Chromium	1.2	U	1.2	4.8	ug/L						
Molybdenum	2.5	U	2.5	10.0	ug/L						
Magnesium	0.01	U	0.01	0.04	mg/L						
Cobalt	1.0	U	1.0	4.0	ug/L						
Iron	4.2	U	4.2	16.8	ug/L						
Copper	1.5	U	1.5	6.0	ug/L						
Selenium	4.0	U	4.0	16.0	ug/L						
Beryllium	0.10	U	0.10	0.40	ug/L						
Manganese	1.0	U	1.0	4.0	ug/L						
Zinc	2.1	U	2.1	8.4	ug/L						
Cadmium	0.3	U	0.3	1.2	ug/L						
Vanadium	3.0	U	3.0	12.0	ug/L						
Arsenic	2.5	U	2.5	10.0	ug/L						
Strontium	0.3	U	0.3	1.2	ug/L						
Barium	0.2	U	0.2	0.8	ug/L						
Calcium	0.10	U	0.10	0.40	mg/L						

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A198 - EPA 200.7 (Continued)											
Blank (B23A198-BLK1)									Prepared: 1/31/2023 Analyzed: 2/2/2023		
LCS (B23A198-BS1)									Prepared: 1/31/2023 Analyzed: 2/2/2023		
Barium	106				ug/L	100		106	90-110		
Magnesium	26.1				mg/L	24.6		106	90-110		
Copper	107				ug/L	99.8		107	90-110		
Calcium	25.9				mg/L	24.7		105	90-110		
Arsenic	103				ug/L	100		103	90-110		
Cadmium	106				ug/L	100		106	90-110		
Aluminum	106				ug/L	100		106	90-110		
Manganese	105				ug/L	101		104	90-110		
Molybdenum	105				ug/L	99.4		106	90-110		
Nickel	106				ug/L	101		105	90-110		
Beryllium	107				ug/L	101		106	90-110		
Chromium	105				ug/L	99.9		105	90-110		
Lead	104				ug/L	101		103	90-110		
Cobalt	106				ug/L	99.6		106	90-110		
Strontium	106				ug/L	100		106	90-110		
Zinc	103				ug/L	100		103	90-110		
Iron	105				ug/L	101		104	90-110		
Silver	55.7	J			ug/L	50.0		111	90-110		
Selenium	94.2				ug/L	98.6		95.5	90-110		
Vanadium	106				ug/L	99.5		107	90-110		
Duplicate (B23A198-DUP1)			**Source: K23A020-05**						Prepared: 1/31/2023 Analyzed: 2/2/2023		
Molybdenum	2.5	U	2.5	10.0	ug/L		ND			NR	
Nickel	1.7	I	1.0	4.0	ug/L		1.9			8.56	
Silver	0.6	U	0.6	2.4	ug/L		ND			NR	
Zinc	5.2	I	2.1	8.4	ug/L		5.2			0.586	
Selenium	4.0	U	4.0	16.0	ug/L		ND			17.9	
Strontium	68.6		0.3	1.2	ug/L		68.9			0.254	
Manganese	2.7	I	1.0	4.0	ug/L		2.7			0.881	
Chromium	1.2	U	1.2	4.8	ug/L		ND			NR	
Aluminum	163		5.0	20.0	ug/L		164			0.392	
Arsenic	2.5	U	2.5	10.0	ug/L		ND			NR	
Barium	25.9		0.2	0.8	ug/L		25.9			0.104	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			27.4	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			NR	
Vanadium	3.0	U	3.0	12.0	ug/L		ND			0.178	
Calcium	9.34		0.10	0.40	mg/L		9.34			0.0530	
Magnesium	9.88		0.01	0.04	mg/L		9.98			0.698	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			3.24	
Copper	1.5	U	1.5	6.0	ug/L		ND			NR	
Iron	452		4.2	16.8	ug/L		454			0.323	

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A198 - EPA 200.7 (Continued)											
Duplicate (B23A198-DUP1)			**Source: K23A020-05**				Prepared: 1/31/2023 Analyzed: 2/2/2023				
Lead	3.0	U	3.0	12.0	ug/L		ND			0.148	
Duplicate (B23A198-DUP2)			**Source: K23A020-13**				Prepared: 1/31/2023 Analyzed: 2/2/2023				
Magnesium	22.0		0.01	0.04	mg/L		22.1			0.109	
Manganese	7.6		1.0	4.0	ug/L		7.6			0.120	
Molybdenum	2.5	U	2.5	10.0	ug/L		ND			7.74	
Nickel	1.0	U	1.0	4.0	ug/L		ND			14.2	
Iron	16.1	I	4.2	16.8	ug/L		18.1			8.24	
Copper	1.5	U	1.5	6.0	ug/L		ND			32.5	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			NR	
Lead	3.0	U	3.0	12.0	ug/L		ND			29.1	
Chromium	1.2	U	1.2	4.8	ug/L		ND			NR	
Calcium	62.0		0.10	0.40	mg/L		62.1			0.0821	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			0.00	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			15.7	
Silver	0.6	U	0.6	2.4	ug/L		ND			NR	
Arsenic	2.5	U	2.5	10.0	ug/L		ND			5.74	
Strontium	1210		0.3	1.2	ug/L		1200			0.453	
Aluminum	5.0	U	5.0	20.0	ug/L		ND			7.60	
Barium	13.4		0.2	0.8	ug/L		13.4			0.147	
Vanadium	3.0	U	3.0	12.0	ug/L		ND			NR	
Zinc	2.6	I	2.1	8.4	ug/L		2.4			4.97	
Selenium	4.0	U	4.0	16.0	ug/L		ND			19.0	
Matrix Spike (B23A198-MS1)			**Source: K23A020-05**				Prepared: 1/31/2023 Analyzed: 2/2/2023				
Chromium	213		1.2	4.8	ug/L	200	ND	106	90-110		
Manganese	214		1.0	4.0	ug/L	200	2.7	106	90-110		
Zinc	204		2.1	8.4	ug/L	200	5.2	99.4	90-110		
Lead	208		3.0	12.0	ug/L	200	ND	104	90-110		
Calcium	36.1		0.10	0.40	mg/L	25.0	9.34	107	90-110		
Iron	1510		4.2	16.8	ug/L	1000	454	106	90-110		
Arsenic	205		2.5	10.0	ug/L	200	ND	103	90-110		
Copper	209		1.5	6.0	ug/L	200	ND	105	90-110		
Aluminum	661		5.0	20.0	ug/L	500	164	99.4	90-110		
Magnesium	35.9		0.01	0.04	mg/L	25.0	9.98	104	90-110		
Molybdenum	551		2.5	10.0	ug/L	500	ND	110	90-110		
Selenium	45.9		4.0	16.0	ug/L	50.0	ND	91.8	90-110		
Nickel	215		1.0	4.0	ug/L	200	1.9	106	90-110		
Cobalt	217		1.0	4.0	ug/L	200	ND	108	90-110		
Strontium	611		0.3	1.2	ug/L	500	68.9	109	90-110		
Beryllium	207		0.10	0.40	ug/L	200	ND	104	90-110		
Barium	560		0.2	0.8	ug/L	500	25.9	107	90-110		
Silver	50.8		0.6	2.4	ug/L	50.0	ND	102	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A198 - EPA 200.7 (Continued)											
Matrix Spike (B23A198-MS1)		**Source: K23A020-05**					Prepared: 1/31/2023 Analyzed: 2/2/2023				
Vanadium	521		3.0	12.0	ug/L	500	ND	104	90-110		
Cadmium	52.5		0.3	1.2	ug/L	50.0	ND	105	90-110		
Matrix Spike (B23A198-MS2)		**Source: K23A020-13**					Prepared: 1/31/2023 Analyzed: 2/2/2023				
Magnesium	47.7		0.01	0.04	mg/L	25.0	22.1	102	90-110		
Aluminum	487		5.0	20.0	ug/L	500	ND	97.4	90-110		
Molybdenum	543		2.5	10.0	ug/L	500	ND	109	90-110		
Strontium	1720		0.3	1.2	ug/L	500	1200	103	90-110		
Selenium	44.9	J	4.0	16.0	ug/L	50.0	ND	89.8	90-110		
Manganese	215		1.0	4.0	ug/L	200	7.6	104	90-110		
Beryllium	206		0.10	0.40	ug/L	200	ND	103	90-110		
Zinc	196		2.1	8.4	ug/L	200	2.4	96.9	90-110		
Chromium	210		1.2	4.8	ug/L	200	ND	105	90-110		
Cobalt	210		1.0	4.0	ug/L	200	ND	105	90-110		
Copper	210		1.5	6.0	ug/L	200	ND	105	90-110		
Nickel	208		1.0	4.0	ug/L	200	ND	104	90-110		
Arsenic	203		2.5	10.0	ug/L	200	ND	102	90-110		
Barium	537		0.2	0.8	ug/L	500	13.4	105	90-110		
Calcium	88.0		0.10	0.40	mg/L	25.0	62.1	104	90-110		
Iron	1050		4.2	16.8	ug/L	1000	18.1	103	90-110		
Cadmium	51.1		0.3	1.2	ug/L	50.0	ND	102	90-110		
Silver	51.0		0.6	2.4	ug/L	50.0	ND	102	90-110		
Vanadium	515		3.0	12.0	ug/L	500	ND	103	90-110		
Lead	207		3.0	12.0	ug/L	200	ND	104	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A047 - DEFAULT PREP - Wet Chem											
Duplicate (B23A047-DUP1)		**Source: K23A020-04**					Prepared & Analyzed: 1/9/2023				
Color	68		10	40	Color Units		68			0.00	
Reference (B23A047-SRM1)							Prepared & Analyzed: 1/9/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23A047-SRM2)							Prepared & Analyzed: 1/9/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23A061 - DEFAULT PREP - Wet Chem											
Duplicate (B23A061-DUP1)		**Source: K23A020-03**					Prepared & Analyzed: 1/10/2023				
Color	12 I		5	20	Color Units		12			0.00	
Reference (B23A061-SRM1)							Prepared & Analyzed: 1/10/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23A061-SRM2)							Prepared & Analyzed: 1/10/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23A065 - DEFAULT PREP - Wet Chem											
Blank (B23A065-BLK1)							Prepared & Analyzed: 1/10/2023				
TSS	1 U		1	4	mg/L						
LCS (B23A065-BS1)							Prepared & Analyzed: 1/10/2023				
TSS	92				mg/L	100		92.0	77.1-110		
Duplicate (B23A065-DUP1)		**Source: K23A026-01**					Prepared & Analyzed: 1/10/2023				
TSS	44		1	4	mg/L		42			3.29	
Duplicate (B23A065-DUP2)		**Source: K23A020-01**					Prepared & Analyzed: 1/10/2023				
TSS	2 I		1	4	mg/L		2			3.29	
Batch B23A069 - DEFAULT PREP - Wet Chem											
Blank (B23A069-BLK1)							Prepared & Analyzed: 1/10/2023				
Total Dissolved Solids	10 U		10	40	mg/L						

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A069 - DEFAULT PREP - Wet Chem (Continued)											
Blank (B23A069-BLK1)							Prepared & Analyzed: 1/10/2023				
Duplicate (B23A069-DUP1)			**Source: K23A020-01**				Prepared & Analyzed: 1/10/2023				
Total Dissolved Solids	298		10	40	mg/L		295			0.715	
Reference (B23A069-SRM1)							Prepared & Analyzed: 1/10/2023				
Total Dissolved Solids	237				mg/L	240		98.8	90-110		
Batch B23A085 - DEFAULT PREP - Wet Chem											
Duplicate (B23A085-DUP1)			**Source: K23A020-11**				Prepared & Analyzed: 1/12/2023				
Color	5	U	5	20	Color Units		ND			0.00	
Reference (B23A085-SRM1)							Prepared & Analyzed: 1/12/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23A085-SRM2)							Prepared & Analyzed: 1/12/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23A087 - DEFAULT PREP - Wet Chem											
Duplicate (B23A087-DUP1)			**Source: K23A020-09**				Prepared & Analyzed: 1/12/2023				
Color	125		25	100	Color Units		125			0.00	
Reference (B23A087-SRM1)							Prepared & Analyzed: 1/12/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23A087-SRM2)							Prepared & Analyzed: 1/12/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23A090 - DEFAULT PREP - Wet Chem											
Blank (B23A090-BLK1)							Prepared & Analyzed: 1/13/2023				
TSS	1	U	1	4	mg/L						

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

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
Batch B23A090 - DEFAULT PREP - Wet Chem (Continued)											
LCS (B23A090-BS1)							Prepared & Analyzed: 1/13/2023				
TSS	101				mg/L	100		101	77.1-110		
Duplicate (B23A090-DUP1)			**Source: K23A020-09**				Prepared & Analyzed: 1/13/2023				
TSS	1	U	1	4	mg/L		ND			NR	
Batch B23A114 - DEFAULT PREP - Wet Chem											
Blank (B23A114-BLK1)							Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23A114-DUP1)			**Source: K23A037-01**				Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	283		10	40	mg/L		275			2.03	
Reference (B23A114-SRM1)							Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	218				mg/L	240		90.8	90-110		
Batch B23A115 - DEFAULT PREP - Wet Chem											
Blank (B23A115-BLK1)							Prepared & Analyzed: 1/18/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23A115-DUP1)			**Source: K23A020-08**				Prepared & Analyzed: 1/18/2023				
Total Dissolved Solids	119		10	40	mg/L		119			0.00	
Reference (B23A115-SRM1)							Prepared & Analyzed: 1/18/2023				
Total Dissolved Solids	238				mg/L	240		99.2	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/09/2023 17:11

Notes and Definitions

Qualifier	Description
J	Estimated value. Quality control associated with the reported value failed to meet the established quality control criteria.
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.
J(M2)	Estimated value. Matrix spike recovery was below QC limits, suggesting a negative matrix interference. Batch accepted based on laboratory control sample (LCS) recovery.

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:	ENV1Q23			Container Preservation Type										
				N	N	I	I	I	I	N	N	N	I	I
Sample Collector(s):	CD, KM			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	Sample ID
1Q23-R2T1	GW	1/8/2023 / 15:39	2	X	X	X	X	X							-02
1Q23-R4T5	GW	1/8/2023 / 10:24	2	X	X	X	X	X							-04
1Q23-R6T1	GW	1/8/2023 / 9:24	2	X	X	X	X	X							-05
1Q23-R6T4	GW	1/8/2023 / 16:22	2	X	X	X	X	X							-06
1Q23-Barnstead	GW	1/8/2023 / 7:44	1	X											-15

K. Bakefield — 1/9/23 @ 0801
Released By — Date/Time

John M Dell — 01/09/23 @ 0801
Received By

Physical samples recd @ 3.8°C

Released By — Date/Time — Received By

Work Order # K23A020

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:	ENV1Q23			Container Preservation Type											
				N	N	I	I	I	I	N	N	N	I	I	
Sample Collector(s):	JC, KM			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	Sample ID
1Q23-R1T6	GW	1-9-23 / 12:18	2	X	X	X	X	X							-01
1Q23-R3T7	GW	1-9-23 / 14:23	2	X	X	X	X	X							-03
1Q23-R6T8	GW	1-9-23 / 9:19	2	X	X	X	X	X							-07
1Q23-R9T5	GW	1-9-23 / 15:06	2	X	X	X	X	X							-10

K. Brakefield — 1-10-23 / 07:40 — [signature] — 01/10/23 @ 0748

Released By — Date/Time — Received By

Physical Samples rec'd @ <6°C

Released By — Date/Time — Received By

Work Order # K23A020

Page 3 of 4

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:	ENV1Q23			Container Preservation Type										
				N	N	I	I	I	I	N	N	N	I	I
Sample Collector(s):	CD, KM			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-R10T8	GW	1-11-23 / 13:14	2	X	X	X	X	X						
1Q23-R11T4	GW	1-11-23 / 12:18	2	X	X	X	X	X						
1Q23-DEEP	GW	1-11-23 / 14:10	2	X	X	X	X	X						
1Q23-EBLANK1	GW	1-10-23 / 08:17	1	X	X									
1Q23-SIS-1	GW	1-10-23 / 09:19	2		X			X		X				
1Q23-SIS-2	GW	1-11-23 / 11:22	2		X			X		X				
1Q23-SIS-3	GW	1-11-23 / 09:16	2		X			X		X				
1Q23-SIS-4	GW	1-11-23 / 10:27	2		X			X		X				
1Q23-LF-1	GW	1-10-23 / 09:59	2		X			X		X				
1Q23-LF-2	GW	1-10-23 / 10:31	2		X			X		X				
1Q23-LF-3	GW	1-10-23 / 11:12	2		X			X		X				
1Q23-LF-4	GW	1-10-23 / 12:34	2		X			X		X				
1Q23-LF-5	GW	1-10-23 / 13:38	2		X			X		X				
1Q23-LF-6	GW	1-10-23 / 14:38	2		X			X		X				
1Q23-EBLANK2	GW	1-11-23 / 10:37	1		X					X				

Sample ID
-11
-12
-13
-14

K. Bakefield — 1/12/23 @ 0920
Released By — Date/Time

01/12/23 0920
Received By

Physical Samples recd @ 2.6°C

Released By — Date/Time — Received By

Work Order # K23A020

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:	ENV1Q23			Container Preservation Type										
				N	N	I	I	I	I	N	N	N	I	I
Sample Collector(s):	CD, KM			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-R6T12	GW	1-12-23 / 8:30	2	X	X	X	X	X						
1Q23-R8T10	GW	1-12-23 / 10:10	2	X	X	X	X	X						
1Q23-SLF	W	1-12-23 / 11:11	2									X	X	X

Sample ID
-08
-09

Released By — 1/12/23 @ 1406 Date/Time — Received By — 01/12/23 1406

Physical samples and SLF Cl/SO4 recd @ 2.6 °C

Released By — 1/12/23 @ Date/Time — Received By

Work Order # K23A020

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

March 20, 2023

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 1/12/2023. 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

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

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

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q23
Project Manager: Jeff Boudreau

Reported:
03/20/2023 14:13

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K23A037-01	SIS-1	Groundwater	01/10/2023 09:19	01/12/2023 09:20
K23A037-02	SIS-2	Groundwater	01/11/2023 11:22	01/12/2023 09:20
K23A037-03	SIS-3	Groundwater	01/11/2023 09:16	01/12/2023 09:20
K23A037-04	SIS-4	Groundwater	01/11/2023 10:27	01/12/2023 09:20
K23A037-05	LF-1	Groundwater	01/10/2023 09:59	01/12/2023 09:20
K23A037-06	LF-2	Groundwater	01/10/2023 10:31	01/12/2023 09:20
K23A037-07	LF-3	Groundwater	01/10/2023 11:12	01/12/2023 09:20
K23A037-08	LF-4	Groundwater	01/10/2023 12:34	01/12/2023 09:20
K23A037-09	LF-5	Groundwater	01/10/2023 13:38	01/12/2023 09:20
K23A037-10	LF-6	Groundwater	01/10/2023 14:38	01/12/2023 09:20
K23A037-11	EBLANK2	Groundwater	01/11/2023 10:37	01/12/2023 09:20

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

SIS-1

K23A037-01 (Groundwater, Grab)

Collected: 01/10/2023 9:19 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	15.6		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	65.9		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	275		10	40	mg/L	1	01/17/2023	01/17/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

SIS-2

K23A037-02 (Groundwater, Grab)

Collected: 01/11/2023 11:22 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	6.8		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	97.3		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.6	I	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	393		10	40	mg/L	1	01/17/2023	01/17/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

SIS-3

K23A037-03 (Groundwater, Grab)

Collected: 01/11/2023 9:16 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	10.7		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	64.7		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	281		10	40	mg/L	1	01/17/2023	01/17/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

SIS-4

K23A037-04 (Groundwater, Grab)

Collected: 01/11/2023 10:27 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	40.9		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	89.2		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	2.1	I	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.7	I	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	663		10	40	mg/L	1	01/17/2023	01/17/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-1

K23A037-05 (Groundwater, Grab)

Collected: 01/10/2023 9:59 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	136		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	25.5		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.4	I	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	4.4	I	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	145		10	40	mg/L	1	01/12/2023	01/12/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-2

K23A037-06 (Groundwater, Grab)

Collected: 01/10/2023 10:31 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	42.0		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.13	I	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	22.9		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	3.5	I	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	5.5		1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	221		10	40	mg/L	1	01/12/2023	01/12/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-3

K23A037-07 (Groundwater, Grab)

Collected: 01/10/2023 11:12 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	57.8		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	19.7		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	5.5		1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	419		10	40	mg/L	1	01/12/2023	01/12/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-4

K23A037-08 (Groundwater, Grab)

Collected: 01/10/2023 12:34 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	28.0		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	14.1		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.6	I	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.2	I	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	137		10	40	mg/L	1	01/12/2023	01/12/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-5

K23A037-09 (Groundwater, Grab)

Collected: 01/10/2023 1:38 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	50.6		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	51.1		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	8.3		1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	764		10	40	mg/L	1	01/12/2023	01/12/2023	SM 2540C

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

LF-6

K23A037-10 (Groundwater, Grab)

Collected: 01/10/2023 2:38 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	17.3		0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	48.0		0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	3.0	I	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	3.7	I	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	193		10	40	mg/L	1	01/17/2023	01/17/2023	SM 2540C

EBLANK2

K23A037-11 (Groundwater, Grab)

Collected: 01/11/2023 10:37 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Barium	0.2	U	0.2	0.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	02/07/2023	02/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	02/07/2023	02/13/2023	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	01/26/2023	01/26/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

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
Batch B23A174 - MERCURY											
Blank (B23A174-BLK1)							Prepared & Analyzed: 1/26/2023				
Mercury	0.100	U	0.100	0.400	ug/L						
LCS (B23A174-BS1)							Prepared & Analyzed: 1/26/2023				
Mercury	2.05		0.100	0.400	ug/L	2.00		102	90-110		
Duplicate (B23A174-DUP1)		**Source: K23A037-01**					Prepared & Analyzed: 1/26/2023				
Mercury	0.100	U	0.100	0.400	ug/L		ND			NR	
Duplicate (B23A174-DUP2)		**Source: K23A037-09**					Prepared & Analyzed: 1/26/2023				
Mercury	0.100	U	0.100	0.400	ug/L		ND			58.1	
Matrix Spike (B23A174-MS1)		**Source: K23A037-01**					Prepared & Analyzed: 1/26/2023				
Mercury	2.07		0.100	0.400	ug/L	2.00	ND	104	90-110		
Matrix Spike (B23A174-MS2)		**Source: K23A037-09**					Prepared & Analyzed: 1/26/2023				
Mercury	1.98		0.100	0.400	ug/L	2.00	ND	99.0	90-110		
Batch B23B039 - EPA 200.7											
Blank (B23B039-BLK1)							Prepared: 2/7/2023 Analyzed: 2/13/2023				
Lead	3.0	U	3.0	12.0	ug/L						
Beryllium	0.10	U	0.10	0.40	ug/L						
Barium	0.2	U	0.2	0.8	ug/L						
Molybdenum	2.5	U	2.5	10.0	ug/L						
Chromium	1.2	U	1.2	4.8	ug/L						
Selenium	4.0	U	4.0	16.0	ug/L						
Arsenic	2.5	U	2.5	10.0	ug/L						
Cobalt	1.0	U	1.0	4.0	ug/L						
Cadmium	0.3	U	0.3	1.2	ug/L						
Calcium	0.10	U	0.10	0.40	mg/L						
LCS (B23B039-BS1)							Prepared: 2/7/2023 Analyzed: 2/13/2023				
Calcium	25.4				mg/L	24.7		103	90-110		
Barium	102				ug/L	100		102	90-110		
Arsenic	101				ug/L	100		101	90-110		
Chromium	105				ug/L	99.9		105	90-110		
Beryllium	104				ug/L	101		103	90-110		
Cadmium	103				ug/L	100		103	90-110		
Lead	101				ug/L	101		99.9	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

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
Batch B23B039 - EPA 200.7 (Continued)											
LCS (B23B039-BS1)							Prepared: 2/7/2023 Analyzed: 2/13/2023				
Selenium	91.2				ug/L	98.6		92.5	90-110		
Molybdenum	100				ug/L	99.4		101	90-110		
Cobalt	102				ug/L	99.6		102	90-110		
Duplicate (B23B039-DUP1)			**Source: K23A037-03**				Prepared: 2/7/2023 Analyzed: 2/13/2023				
Arsenic	2.5	U	2.5	10.0	ug/L		ND			NR	
Barium	11.0		0.2	0.8	ug/L		10.7			1.81	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			28.3	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			NR	
Calcium	65.8		0.10	0.40	mg/L		64.7			1.18	
Chromium	1.2	U	1.2	4.8	ug/L		ND			23.7	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			13.6	
Lead	3.0	U	3.0	12.0	ug/L		ND			23.9	
Selenium	4.0	U	4.0	16.0	ug/L		ND			1.09	
Molybdenum	2.5	U	2.5	10.0	ug/L		ND			3.45	
Duplicate (B23B039-DUP2)			**Source: K23A037-05**				Prepared: 2/7/2023 Analyzed: 2/13/2023				
Cadmium	0.3	U	0.3	1.2	ug/L		ND			4.88	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			0.00	
Chromium	1.2	U	1.2	4.8	ug/L		ND			NR	
Cobalt	1.4	I	1.0	4.0	ug/L		1.4			0.358	
Calcium	25.7		0.10	0.40	mg/L		25.5			0.467	
Molybdenum	4.4	I	2.5	10.0	ug/L		4.4			0.739	
Arsenic	2.5	U	2.5	10.0	ug/L		ND			22.3	
Barium	138		0.2	0.8	ug/L		136			0.929	
Selenium	4.0	U	4.0	16.0	ug/L		ND			12.4	
Lead	3.0	U	3.0	12.0	ug/L		ND			11.0	
Matrix Spike (B23B039-MS1)			**Source: K23A037-03**				Prepared: 2/7/2023 Analyzed: 2/13/2023				
Molybdenum	540		2.5	10.0	ug/L	500	ND	108	90-110		
Cobalt	211		1.0	4.0	ug/L	200	ND	105	90-110		
Barium	533		0.2	0.8	ug/L	500	10.7	105	90-110		
Selenium	48.0		4.0	16.0	ug/L	50.0	ND	95.9	90-110		
Beryllium	204		0.10	0.40	ug/L	200	ND	102	90-110		
Chromium	217		1.2	4.8	ug/L	200	ND	108	90-110		
Cadmium	52.3		0.3	1.2	ug/L	50.0	ND	105	90-110		
Calcium	91.0		0.10	0.40	mg/L	25.0	64.7	105	90-110		
Lead	206		3.0	12.0	ug/L	200	ND	103	90-110		
Arsenic	206		2.5	10.0	ug/L	200	ND	103	90-110		
Matrix Spike (B23B039-MS2)			**Source: K23A037-05**				Prepared: 2/7/2023 Analyzed: 2/13/2023				

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

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
Batch B23B039 - EPA 200.7 (Continued)											
Matrix Spike (B23B039-MS2)		**Source: K23A037-05**						Prepared: 2/7/2023 Analyzed: 2/13/2023			
Chromium	214		1.2	4.8	ug/L	200	ND	107	90-110		
Calcium	50.2		0.10	0.40	mg/L	25.0	25.5	98.6	90-110		
Beryllium	204		0.10	0.40	ug/L	200	ND	102	90-110		
Cobalt	207		1.0	4.0	ug/L	200	1.4	103	90-110		
Molybdenum	534		2.5	10.0	ug/L	500	4.4	106	90-110		
Cadmium	51.6		0.3	1.2	ug/L	50.0	ND	103	90-110		
Selenium	46.9		4.0	16.0	ug/L	50.0	ND	93.8	90-110		
Barium	659		0.2	0.8	ug/L	500	136	104	90-110		
Arsenic	204		2.5	10.0	ug/L	200	ND	102	90-110		
Lead	202		3.0	12.0	ug/L	200	ND	101	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

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
Batch B23A086 - DEFAULT PREP - Wet Chem											
Blank (B23A086-BLK1)							Prepared & Analyzed: 1/12/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23A086-DUP1)			**Source: K23A037-05**				Prepared & Analyzed: 1/12/2023				
Total Dissolved Solids	138		10	40	mg/L		145			3.50	
Reference (B23A086-SRM1)							Prepared & Analyzed: 1/12/2023				
Total Dissolved Solids	242				mg/L	240		101	90-110		
Batch B23A114 - DEFAULT PREP - Wet Chem											
Blank (B23A114-BLK1)							Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23A114-DUP1)			**Source: K23A037-01**				Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	283		10	40	mg/L		275			2.03	
Reference (B23A114-SRM1)							Prepared & Analyzed: 1/17/2023				
Total Dissolved Solids	218				mg/L	240		90.8	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 1Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	03/20/2023 14:13

Notes and Definitions

Qualifier	Description
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

Page 1 of 1

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

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

Batch:	ENV1Q23			Container Preservation Type										
				N	N	I	I	I	I	N	N	N	I	I
Sample Collector(s):	CD, KM			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	Sample ID
1Q23-R10T8	GW	1-11-23 / 13:14	2	X	X	X	X	X							
1Q23-R11T4	GW	1-11-23 / 12:18	2	X	X	X	X	X							
1Q23-DEEP	GW	1-11-23 / 14:10	2	X	X	X	X	X							
1Q23-EBLANK1	GW	1-10-23 / 08:17	1	X	X										
1Q23-SIS-1	GW	1-10-23 / 09:19	2		X			X		X					-01
1Q23-SIS-2	GW	1-11-23 / 11:22	2		X			X		X					-02
1Q23-SIS-3	GW	1-11-23 / 09:16	2		X			X		X					-03
1Q23-SIS-4	GW	1-11-23 / 10:27	2		X			X		X					-04
1Q23-LF-1	GW	1-10-23 / 09:59	2		X			X		X					-05
1Q23-LF-2	GW	1-10-23 / 10:31	2		X			X		X					-06
1Q23-LF-3	GW	1-10-23 / 11:12	2		X			X		X					-07
1Q23-LF-4	GW	1-10-23 / 12:34	2		X			X		X					-08
1Q23-LF-5	GW	1-10-23 / 13:38	2		X			X		X					-09
1Q23-LF-6	GW	1-10-23 / 14:38	2		X			X		X					-10
1Q23-EBLANK2	GW	1-11-23 / 10:37	1		X					X					-11

K. Bakefield — 1/12/23 @ 0920 — 01/12/23 0920
Released By — Date/Time — Received By

Physical Samples recd @ 2.6°C

Released By — Date/Time — Received By

Work Order # K23A037

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

August 23, 2023

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

RE: Project: ENV3Q23
Pace Project No.: 35815955

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2023. 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

Several of the parameters for 35815955 were received in a cooler at a temperature above 6 degrees C. These were run per client request.

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

Sincerely,

Jeff Baylor

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

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: ENV3Q23
Pace Project No.: 35815955

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
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
Wisconsin Certification #: 399079670

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: ENV3Q23
Pace Project No.: 35815955

Pace Analytical Services Ormond Beach
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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE SUMMARY

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35815955001	**3Q23-R1T6**	Water	07/12/23 12:54	07/26/23 11:15
35815955002	**3Q23-R2T1**	Water	07/10/23 12:21	07/26/23 11:15
35815955003	**3Q23-R3T7**	Water	07/18/23 08:10	07/26/23 11:15
35815955004	**3Q23-R4T5**	Water	07/12/23 08:48	07/26/23 11:15
35815955005	**3Q23-R6T1**	Water	07/10/23 09:07	07/26/23 11:15
35815955006	**3Q23-R6T4**	Water	07/12/23 10:29	07/26/23 11:15
35815955007	**3Q23-R6T8**	Water	07/18/23 10:34	07/26/23 11:15
35815955008	**3Q23-R6T12**	Water	07/18/23 14:24	07/26/23 11:15
35815955009	**3Q23-R8T10**	Water	07/19/23 12:09	07/26/23 11:15
35815955010	**3Q23R9T5**	Water	07/18/23 09:25	07/26/23 11:15
35815955011	**3Q23-R10T8**	Water	07/19/23 10:04	07/26/23 11:15
35815955012	**3Q23-R11T4**	Water	07/19/23 08:50	07/26/23 11:15
35815955013	**3Q23-DEEP**	Water	07/18/23 13:36	07/26/23 11:15
35815955014	**3Q23-EBLANK1**	Water	07/14/23 10:26	07/26/23 11:15
35815955015	**3Q23-SIS-1**	Water	07/13/23 10:00	07/26/23 11:15
35815955016	**3Q23-SIS-2**	Water	07/13/23 11:08	07/26/23 11:15
35815955017	**3Q23-SIS-3**	Water	07/13/23 13:10	07/26/23 11:15
35815955018	**3Q23-SIS-4**	Water	07/14/23 10:00	07/26/23 11:15
35815955019	**3Q23-LF-1**	Water	07/13/23 08:42	07/26/23 11:15
35815955020	**3Q23-LF-2**	Water	07/14/23 11:39	07/26/23 11:15
35815955021	**3Q23-LF-3**	Water	07/17/23 08:11	07/26/23 11:15
35815955022	**3Q23-LF-4**	Water	07/17/23 09:21	07/26/23 11:15
35815955023	**3Q23-LF-5**	Water	07/17/23 11:07	07/26/23 11:15
35815955024	**3Q23-LF-6**	Water	07/17/23 13:18	07/26/23 11:15
35815955025	**3Q23-EBLANK2**	Water	07/17/23 13:40	07/26/23 11:15
35815955026	**3Q23-Barnstead**	Water	07/17/23 13:40	07/26/23 11:15

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35815955001	**3Q23-R1T6**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955002	**3Q23-R2T1**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35815955003	**3Q23-R3T7**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955004	**3Q23-R4T5**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	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 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955005	**3Q23-R6T1**	EPA 200.7	AME	2	PASI-O
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	EAD	1	PASI-O
35815955006	**3Q23-R6T4**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	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 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35815955007	**3Q23-R6T8**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	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 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955008	**3Q23-R6T12**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955009	**3Q23-R8T10**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955010	**3Q23R9T5**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955011	**3Q23-R10T8**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	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 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955012	**3Q23-R11T4**	EPA 200.7	AME	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 900.0	REH1	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	VAL	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	CMB	1	PASI-O
35815955013	**3Q23-DEEP**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	2	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955014	**3Q23-EBLANK1**	EPA 200.7	AME	2	PASI-O
		EPA 900.0	REH1	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 353.2	KW1	1	PASI-O
		SM 5310B	CMB	1	PASI-O
35815955015	**3Q23-SIS-1**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955016	**3Q23-SIS-2**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955017	**3Q23-SIS-3**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955018	**3Q23-SIS-4**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955019	**3Q23-LF-1**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955020	**3Q23-LF-2**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955021	**3Q23-LF-3**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955022	**3Q23-LF-4**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955023	**3Q23-LF-5**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955024	**3Q23-LF-6**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955025	**3Q23-EBLANK2**	EPA 6020B	KRL	4	PASI-A
		EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
35815955026	**3Q23-Barnstead**	EPA 200.7	TMA	2	PASI-O
		EPA 6020B	KRL	4	PASI-A
		EPA 300.0	CMB	3	PASI-O

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

SAMPLE ANALYTE COUNT

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

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

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-R4T5 **Lab ID: 35815955004** Collected: 07/12/23 08:48 Received: 07/26/23 11:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach								
Potassium	**303 I**	ug/L	1000	270	1	07/27/23 23:47	07/30/23 12:51	7440-09-7	
Sodium	**5460**	ug/L	2000	540	1	07/27/23 23:47	07/30/23 12:51	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:09	7440-36-0	
Boron	**15.6 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 17:49	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 17:49	7439-93-2	
Titanium	**0.78 I**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:09	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**3.3 I**	mg/L	5.0	2.5	1		08/01/23 17:48	16887-00-6	
Fluoride	**0.28**	mg/L	0.050	0.015	1		08/01/23 17:48	16984-48-8	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		08/01/23 17:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	**0.084**	mg/L	0.050	0.015	1		08/01/23 17:34		
5310B TOC	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**23.9**	mg/L	1.0	0.50	1		08/03/23 18:01	7440-44-0	Y

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-R6T4 **Lab ID: 35815955006** Collected: 07/12/23 10:29 Received: 07/26/23 11:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach								
Potassium	**1990**	ug/L	1000	270	1	07/27/23 23:47	07/30/23 12:58	7440-09-7	
Sodium	**53300**	ug/L	2000	540	1	07/27/23 23:47	07/30/23 12:58	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:14	7440-36-0	
Boron	**35.3 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 17:54	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 17:54	7439-93-2	
Titanium	**1.2**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:14	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**23.4**	mg/L	5.0	2.5	1		08/01/23 18:36	16887-00-6	
Fluoride	**0.090**	mg/L	0.050	0.015	1		08/01/23 18:36	16984-48-8	
Sulfate	**97.5**	mg/L	10.0	5.0	2		08/02/23 09:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	**0.026 I**	mg/L	0.050	0.015	1		08/01/23 17:35		
5310B TOC	Analytical Method: SM 5310B Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**14.4**	mg/L	1.0	0.50	1		08/03/23 18:21	7440-44-0	Y

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-EBLANK1 **Lab ID: 35815955014** Collected: 07/14/23 10:26 Received: 07/26/23 11:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Ormond Beach								
Potassium	**270 U**	ug/L	1000	270	1	07/27/23 23:47	07/30/23 13:38	7440-09-7	
Sodium	**540 U**	ug/L	2000	540	1	07/27/23 23:47	07/30/23 13:38	7440-23-5	
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		08/01/23 23:21	16887-00-6	
Fluoride	**0.015 U**	mg/L	0.050	0.015	1		08/01/23 23:21	16984-48-8	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		08/01/23 23:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	**0.019 I**	mg/L	0.050	0.015	1		08/03/23 21:32		
5310B TOC	Analytical Method: SM 5310B								
	Pace Analytical Services - Ormond Beach								
Total Organic Carbon	**0.50 U**	mg/L	1.0	0.50	1		08/04/23 03:50	7440-44-0	Y

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-1 **Lab ID: 35815955015** Collected: 07/13/23 10:00 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:34	7440-36-0	
Boron	**20.5 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:14	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:14	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:34	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**95.6**	mg/L	5.0	2.5	1		08/01/23 23:45	16887-00-6	
Fluoride	**0.15**	mg/L	0.050	0.015	1		08/01/23 23:45	16984-48-8	
Sulfate	**30.4**	mg/L	5.0	2.5	1		08/01/23 23:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-2 **Lab ID: 35815955016** Collected: 07/13/23 11:08 Received: 07/26/23 11:15 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	**0.28 I**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:39	7440-36-0	
Boron	**24.0 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:19	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:19	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:39	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**14.7**	mg/L	5.0	2.5	1		08/02/23 00:09	16887-00-6	
Fluoride	**0.40**	mg/L	0.050	0.015	1		08/02/23 00:09	16984-48-8	
Sulfate	**30.1**	mg/L	5.0	2.5	1		08/02/23 00:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-3 **Lab ID: 35815955017** Collected: 07/13/23 13:10 Received: 07/26/23 11:15 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	**0.25 I**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:44	7440-36-0	
Boron	**22.2 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:24	7440-42-8	
Lithium	**0.79 I**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:24	7439-93-2	
Titanium	**2.2**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:44	7440-32-6	
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		08/02/23 00:33	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.015	1		08/02/23 00:33	16984-48-8	
Sulfate	**3.0 I**	mg/L	5.0	2.5	1		08/02/23 00:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-4 **Lab ID: 35815955018** Collected: 07/14/23 10:00 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 09:59	7440-36-0	
Boron	**13.4 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:39	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:39	7439-93-2	
Titanium	**1.1**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 09:59	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**7.5**	mg/L	5.0	2.5	1		08/02/23 00:56	16887-00-6	
Fluoride	**0.24**	mg/L	0.050	0.015	1		08/02/23 00:56	16984-48-8	
Sulfate	**3.7 I**	mg/L	5.0	2.5	1		08/02/23 00:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-1 **Lab ID: 35815955019** Collected: 07/13/23 08:42 Received: 07/26/23 11:15 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	**1.7**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:04	7440-36-0	
Boron	**156**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:44	7440-42-8	
Lithium	**5.7**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:44	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:04	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**13.1**	mg/L	5.0	2.5	1		08/02/23 01:20	16887-00-6	
Fluoride	**0.092**	mg/L	0.050	0.015	1		08/02/23 01:20	16984-48-8	
Sulfate	**13.9**	mg/L	5.0	2.5	1		08/02/23 01:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-2 **Lab ID: 35815955020** Collected: 07/14/23 11:39 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:09	7440-36-0	
Boron	**31.4 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 18:49	7440-42-8	
Lithium	**1.3 I**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 18:49	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:09	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**38.6**	mg/L	5.0	2.5	1		08/02/23 01:44	16887-00-6	
Fluoride	**0.29**	mg/L	0.050	0.015	1		08/02/23 01:44	16984-48-8	
Sulfate	**9.3**	mg/L	5.0	2.5	1		08/02/23 01:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-3 **Lab ID: 35815955021** Collected: 07/17/23 08:11 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:14	7440-36-0	
Boron	**2000**	ug/L	1500	255	30	08/05/23 16:55	08/15/23 18:54	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 21:55	7439-93-2	
Titanium	**2.0**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:14	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**24.2**	mg/L	5.0	2.5	1		08/02/23 03:43	16887-00-6	
Fluoride	**0.042 I**	mg/L	0.050	0.015	1		08/02/23 03:43	16984-48-8	
Sulfate	**89.0**	mg/L	5.0	2.5	1		08/02/23 03:43	14808-79-8	J(M1)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-4 **Lab ID: 35815955022** Collected: 07/17/23 09:21 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:19	7440-36-0	
Boron	**253**	ug/L	150	25.5	3	08/05/23 16:55	08/15/23 19:54	7440-42-8	
Lithium	**8.8**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 19:19	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:19	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**18.1**	mg/L	5.0	2.5	1		08/02/23 04:55	16887-00-6	
Fluoride	**0.11**	mg/L	0.050	0.015	1		08/02/23 04:55	16984-48-8	
Sulfate	**35.1**	mg/L	5.0	2.5	1		08/02/23 04:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-5 **Lab ID: 35815955023** Collected: 07/17/23 11:07 Received: 07/26/23 11:15 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	**1.2**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:34	7440-36-0	
Boron	**805**	ug/L	500	85.0	10	08/05/23 16:55	08/15/23 19:03	7440-42-8	
Lithium	**2.3 I**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 22:00	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:34	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**25.3**	mg/L	5.0	2.5	1		08/02/23 10:52	16887-00-6	
Fluoride	**0.087**	mg/L	0.050	0.015	1		08/02/23 10:52	16984-48-8	
Sulfate	**285**	mg/L	25.0	12.5	5		08/02/23 11:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-6 **Lab ID: 35815955024** Collected: 07/17/23 13:18 Received: 07/26/23 11:15 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	**0.47 I**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:39	7440-36-0	
Boron	**35.6 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 19:09	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 19:09	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:39	7440-32-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach								
Chloride	**3.3 I**	mg/L	5.0	2.5	1		08/02/23 05:42	16887-00-6	
Fluoride	**0.069**	mg/L	0.050	0.015	1		08/02/23 05:42	16984-48-8	
Sulfate	**25.9**	mg/L	5.0	2.5	1		08/02/23 05:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-EBLANK2 **Lab ID: 35815955025** Collected: 07/17/23 13:40 Received: 07/26/23 11:15 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	**0.20 U**	ug/L	1.0	0.20	1	08/05/23 16:55	08/10/23 10:44	7440-36-0	
Boron	**12.9 I**	ug/L	50.0	8.5	1	08/05/23 16:55	08/15/23 19:24	7440-42-8	
Lithium	**0.50 U**	ug/L	2.5	0.50	1	08/05/23 16:55	08/15/23 19:24	7439-93-2	
Titanium	**0.74 U**	ug/L	1.0	0.74	1	08/05/23 16:55	08/10/23 10:44	7440-32-6	
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		08/02/23 06:06	16887-00-6	
Fluoride	**0.015 U**	mg/L	0.050	0.015	1		08/02/23 06:06	16984-48-8	
Sulfate	**2.5 U**	mg/L	5.0	2.5	1		08/02/23 06:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 937292
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955005, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

METHOD BLANK: 5151448
Matrix: Water
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955005, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Potassium	ug/L	270 U	1000	270	07/30/23 12:07	
Sodium	ug/L	540 U	2000	540	07/30/23 12:07	

LABORATORY CONTROL SAMPLE: 5151449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium	ug/L	12500	12500	100	85-115	
Sodium	ug/L	12500	13100	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5151450 5151451

Parameter	Units	35815955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	487 I	12500	12500	13200	13400	102	103	70-130	1	20	
Sodium	ug/L	12500	12500	12500	25500	25800	104	106	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5151452 5151453

Parameter	Units	35815955010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	5280	12500	12500	18300	18500	104	106	70-130	1	20	
Sodium	ug/L	17800	12500	12500	30800	31100	104	106	70-130	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 940858
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955026

METHOD BLANK: 5170633 Matrix: Water
Associated Lab Samples: 35815955026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Potassium	ug/L	270 U	1000	270	08/10/23 17:13	
Sodium	ug/L	540 U	2000	540	08/10/23 17:13	

LABORATORY CONTROL SAMPLE: 5170634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium	ug/L	12500	12500	100	85-115	
Sodium	ug/L	12500	13100	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5170635 5170636

Parameter	Units	35818803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	328000	12500	12500	315000	322000	-99	-42	70-130	2	20	J(M1), L
Sodium	ug/L	1180000	12500	12500	1010000	1030000	-1340	-1180	70-130	2	20	J(M1), L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5170637 5170638

Parameter	Units	92681129002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Potassium	ug/L	1980	12500	12500	14800	14500	103	100	70-130	2	20	
Sodium	ug/L	3010	12500	12500	16300	16000	106	104	70-130	2	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 791667
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025, 35815955026

METHOD BLANK: 4102775 Matrix: Water
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025, 35815955026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.20 U	1.0	0.20	08/10/23 08:08	
Boron	ug/L	8.5 U	50.0	8.5	08/15/23 17:39	
Lithium	ug/L	0.50 U	2.5	0.50	08/15/23 17:39	
Titanium	ug/L	0.74 U	1.0	0.74	08/10/23 08:08	

LABORATORY CONTROL SAMPLE: 4102776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.2	102	80-120	
Boron	ug/L	50	49.1 I	98	80-120	
Lithium	ug/L	50	50.4	101	80-120	
Titanium	ug/L	50	50.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4102777 4102778

Parameter	Units	92679626005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	50	50	47.9	47.5	96	95	75-125	1	20	
Boron	ug/L	71.9	50	50	117	115	91	87	75-125	2	20	
Lithium	ug/L	ND	50	50	49.6	49.3	96	95	75-125	1	20	
Titanium	ug/L	96.3	50	50	183	170	173	148	75-125	7	20	J(M1)

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 938277
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955005, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020

METHOD BLANK: 5156059
Matrix: Water
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955005, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/01/23 15:01	
Fluoride	mg/L	0.015 U	0.050	0.015	08/01/23 15:01	
Sulfate	mg/L	2.5 U	5.0	2.5	08/01/23 15:01	

LABORATORY CONTROL SAMPLE: 5156060

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	105	90-110	
Sulfate	mg/L	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5159164 5159165

Parameter	Units	35815955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.9	50	50	63.9	62.2	100	97	90-110	3	20	
Fluoride	mg/L	0.44	5	5	5.7	5.5	104	101	90-110	3	20	
Sulfate	mg/L	2.5 U	50	50	47.4	45.7	92	89	90-110	4	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5159166 5159167

Parameter	Units	35815955011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.1	50	50	55.5	55.3	99	98	90-110	0	20	
Fluoride	mg/L	0.081	5	5	5.4	5.4	106	106	90-110	0	20	
Sulfate	mg/L	12.8	50	50	62.9	62.9	100	100	90-110	0	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 938279
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955021, 35815955022, 35815955023, 35815955024, 35815955025, 35815955026

METHOD BLANK: 5156064 Matrix: Water
Associated Lab Samples: 35815955021, 35815955022, 35815955023, 35815955024, 35815955025, 35815955026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/02/23 02:55	
Fluoride	mg/L	0.015 U	0.050	0.015	08/02/23 02:55	
Sulfate	mg/L	2.5 U	5.0	2.5	08/02/23 02:55	

LABORATORY CONTROL SAMPLE: 5156065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	5	5.3	105	90-110	
Sulfate	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5159172 5159173

Parameter	Units	35815955021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.2	50	50	77.6	77.4	107	107	90-110	0	20	
Fluoride	mg/L	0.042 I	5	5	5.3	5.3	106	106	90-110	0	20	
Sulfate	mg/L	89.0	50	50	149	148	119	118	90-110	0	20	J(M1), L

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 937813
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955002, 35815955005

METHOD BLANK: 5154452 Matrix: Water
Associated Lab Samples: 35815955002, 35815955005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	07/29/23 17:32	

LABORATORY CONTROL SAMPLE: 5154453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	1.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5154455 5154454

Parameter	Units	35816592008 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	2.9	2	2	4.5	4.5	81	79	90-110	1	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5154457 5154456

Parameter	Units	35815368004 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	0.50	2	2	2.2	2.2	85	85	90-110	1	20	J(M1)

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 938393
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955001, 35815955004, 35815955006

METHOD BLANK: 5156706 Matrix: Water
Associated Lab Samples: 35815955001, 35815955004, 35815955006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/01/23 17:03	

LABORATORY CONTROL SAMPLE: 5156707

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: 5156709 5156708

Parameter	Units	35816668001 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	0.47	2	2	2.2	2.4	87	97	90-110	9	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5156711 5156710

Parameter	Units	35816686002 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	11.3	20	20	29.5	29.5	91	91	90-110	0	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 939269
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955003, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012

METHOD BLANK: 5161543 Matrix: Water
Associated Lab Samples: 35815955003, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/03/23 18:02	

LABORATORY CONTROL SAMPLE: 5161544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5161546 5161545

Parameter	Units	35817507003 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	0.18	2	2	1.8	1.9	82	84	90-110	2	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5161548 5161547

Parameter	Units	35815955010 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	0.090	2	2	1.1	1.1	49	49	90-110	0	20	J(M1)

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 939317
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955013

METHOD BLANK: 5162088 Matrix: Water
Associated Lab Samples: 35815955013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/03/23 20:43	

LABORATORY CONTROL SAMPLE: 5162089

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: 5162091 5162090

Parameter	Units	35817041003 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	2.1	2	2	3.8	3.7	82	77	90-110	3	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162093 5162092

Parameter	Units	35817530002 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	1.0	2	2	2.8	2.8	90	88	90-110	1	20	J(M1)

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 939319
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955014

METHOD BLANK: 5162094 Matrix: Water
Associated Lab Samples: 35815955014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/03/23 21:24	

LABORATORY CONTROL SAMPLE: 5162095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162097 5162096

Parameter	Units	35817060006 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	0.054	2	2	1.7	1.7	83	82	90-110	2	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5162099 5162098

Parameter	Units	35816741014 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	0.020 I	2	2	1.8	2.0	88	97	90-110	10	20	J(M1)

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 938708
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955002, 35815955005

METHOD BLANK: 5158449 Matrix: Water
Associated Lab Samples: 35815955002, 35815955005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	08/03/23 06:55	

LABORATORY CONTROL SAMPLE: 5158450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5158451 5158452

Parameter	Units	35813806001 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	9.3	20	20	30.0	30.2	104	105	80-120	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 939011
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955001, 35815955004, 35815955006

METHOD BLANK: 5160379 Matrix: Water
Associated Lab Samples: 35815955001, 35815955004, 35815955006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	08/03/23 14:55	

LABORATORY CONTROL SAMPLE: 5160380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	21.8	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5160381 5160382

Parameter	Units	35817197001 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	0.56 I	20	20	22.2	21.9	108	107	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5160383 5160384

Parameter	Units	35817495001 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	2.3	20	20	23.4	23.5	105	106	80-120	0	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 939020
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35815955003, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

METHOD BLANK: 5160385 Matrix: Water
Associated Lab Samples: 35815955003, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	08/03/23 23:24	

LABORATORY CONTROL SAMPLE: 5160386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	21.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5160387 5160388

Parameter	Units	35814748001 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	0.50 U	20	20	21.8	21.9	106	107	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5160389 5160390

Parameter	Units	35816902002 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	ND	20	20	21.7	21.5	108	107	80-120	1	20	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-R4T5 **Lab ID: 35815955004** Collected: 07/12/23 08:48 Received: 07/26/23 11:15 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	EPA 900.0	**2.82U ± 1.19 (2.82) C:NA T:NA**	pCi/L	08/23/23 08:32	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.667U ± 0.362 (0.667) C:NA T:103%**	pCi/L	08/21/23 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.888U ± 0.447 (0.888) C:79% T:83%**	pCi/L	08/17/23 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.56U ± 0.809 (1.56)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-R6T4 **Lab ID: 35815955006** Collected: 07/12/23 10:29 Received: 07/26/23 11:15 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	EPA 900.0	**2.73U ± 0.994 (2.73) C:NA T:NA**	pCi/L	08/23/23 10:11	12587-46-1	
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.28 ± 0.656 (0.688) C:NA T:94%**	pCi/L	08/21/23 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.921 ± 0.500 (0.920) C:80% T:83%**	pCi/L	08/17/23 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.61U ± 1.16 (1.61)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-EBLANK1 **Lab ID: 35815955014** Collected: 07/14/23 10:26 Received: 07/26/23 11:15 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	EPA 900.0	**2.03U ± 0.771 (2.03) C:NA T:NA**	pCi/L	08/23/23 08:37	12587-46-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-1 **Lab ID: 35815955015** Collected: 07/13/23 10:00 Received: 07/26/23 11:15 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	**0.936U ± 0.549 (0.936) C:NA T:94%**	pCi/L	08/21/23 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.757U ± 0.365 (0.757) C:77% T:83%**	pCi/L	08/17/23 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.69U ± 0.914 (1.69)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-2 **Lab ID: 35815955016** Collected: 07/13/23 11:08 Received: 07/26/23 11:15 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	**1.01U ± 0.579 (1.01) C:NA T:97%**	pCi/L	08/21/23 13:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.699U ± 0.329 (0.699) C:82% T:89%**	pCi/L	08/17/23 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.71U ± 0.908 (1.71)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-3 **Lab ID: 35815955017** Collected: 07/13/23 13:10 Received: 07/26/23 11:15 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	**0.712U ± 0.337 (0.712) C:NA T:97%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.14U ± 0.599 (1.14) C:71% T:76%**	pCi/L	08/17/23 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.85U ± 0.936 (1.85)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-SIS-4 **Lab ID: 35815955018** Collected: 07/14/23 10:00 Received: 07/26/23 11:15 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	**0.734U ± 0.513 (0.734) C:NA T:99%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.50 ± 0.515 (0.743) C:83% T:89%**	pCi/L	08/17/23 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.50 ± 1.03 (1.48)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-1 **Lab ID: 35815955019** Collected: 07/13/23 08:42 Received: 07/26/23 11:15 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	**0.846 ± 0.583 (0.795) C:NA T:99%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.934 ± 0.446 (0.777) C:81% T:89%**	pCi/L	08/17/23 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.57U ± 1.03 (1.57)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-2 **Lab ID: 35815955020** Collected: 07/14/23 11:39 Received: 07/26/23 11:15 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	**0.756 ± 0.432 (0.397) C:NA T:99%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.758U ± 0.383 (0.758) C:82% T:91%**	pCi/L	08/17/23 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16U ± 0.815 (1.16)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-3 **Lab ID: 35815955021** Collected: 07/17/23 08:11 Received: 07/26/23 11:15 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	**1.17 ± 0.688 (0.872) C:NA T:97%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.907 ± 0.454 (0.807) C:82% T:86%**	pCi/L	08/17/23 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.68U ± 1.14 (1.68)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-4 **Lab ID: 35815955022** Collected: 07/17/23 09:21 Received: 07/26/23 11:15 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	**0.678U ± 0.501 (0.678) C:NA T:100%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.720 ± 0.392 (0.709) C:83% T:87%**	pCi/L	08/17/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.39U ± 0.893 (1.39)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-5 **Lab ID: 35815955023** Collected: 07/17/23 11:07 Received: 07/26/23 11:15 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	**5.33 ± 1.43 (1.16) C:NA T:96%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**3.71 ± 0.886 (0.757) C:82% T:85%**	pCi/L	08/17/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.71 ± 2.32 (1.92)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-LF-6 **Lab ID: 35815955024** Collected: 07/17/23 13:18 Received: 07/26/23 11:15 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	**0.493U ± 0.380 (0.493) C:NA T:97%**	pCi/L	08/21/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.793U ± 0.429 (0.793) C:82% T:88%**	pCi/L	08/17/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.29U ± 0.809 (1.29)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

Sample: 3Q23-EBLANK2 **Lab ID: 35815955025** Collected: 07/17/23 13:40 Received: 07/26/23 11:15 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	**0.418U ± 0.260 (0.418) C:NA T:102%**	pCi/L	08/21/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.12 ± 0.459 (0.733) C:84% T:84%**	pCi/L	08/17/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.15U ± 0.719 (1.15)**	pCi/L	08/22/23 16:51	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 606955
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025

METHOD BLANK: 2952304
Matrix: Water
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.839 ± 0.321 (0.430) C:87% T:91%	pCi/L	08/17/23 11:46	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 609715
QC Batch Method: EPA 900.0
Analysis Method: EPA 900.0
Analysis Description: 900.0 Gross Alpha/Beta
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

METHOD BLANK: 2967206
Matrix: Water
Associated Lab Samples: 35815955001, 35815955002, 35815955003, 35815955004, 35815955006, 35815955007, 35815955008, 35815955009, 35815955010, 35815955011, 35815955012, 35815955013, 35815955014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.067 ± 0.695 (1.81) C:NA T:NA	pCi/L	08/23/23 08:31	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q23
Pace Project No.: 35815955

QC Batch: 606953
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025

METHOD BLANK: 2952301
Matrix: Water
Associated Lab Samples: 35815955004, 35815955006, 35815955007, 35815955011, 35815955012, 35815955015, 35815955016, 35815955017, 35815955018, 35815955019, 35815955020, 35815955021, 35815955022, 35815955023, 35815955024, 35815955025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.710 ± 0.434 (0.533) C:NA T:99%	pCi/L	08/21/23 13:07	

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.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: ENV3Q23
Pace Project No.: 35815955

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.

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35815955001	**3Q23-R1T6**	EPA 200.7	937292	EPA 200.7	937317
35815955002	**3Q23-R2T1**	EPA 200.7	937292	EPA 200.7	937317
35815955003	**3Q23-R3T7**	EPA 200.7	937292	EPA 200.7	937317
35815955004	**3Q23-R4T5**	EPA 200.7	937292	EPA 200.7	937317
35815955005	**3Q23-R6T1**	EPA 200.7	937292	EPA 200.7	937317
35815955006	**3Q23-R6T4**	EPA 200.7	937292	EPA 200.7	937317
35815955007	**3Q23-R6T8**	EPA 200.7	937292	EPA 200.7	937317
35815955008	**3Q23-R6T12**	EPA 200.7	937292	EPA 200.7	937317
35815955009	**3Q23-R8T10**	EPA 200.7	937292	EPA 200.7	937317
35815955010	**3Q23R9T5**	EPA 200.7	937292	EPA 200.7	937317
35815955011	**3Q23-R10T8**	EPA 200.7	937292	EPA 200.7	937317
35815955012	**3Q23-R11T4**	EPA 200.7	937292	EPA 200.7	937317
35815955013	**3Q23-DEEP**	EPA 200.7	937292	EPA 200.7	937317
35815955014	**3Q23-EBLANK1**	EPA 200.7	937292	EPA 200.7	937317
35815955026	**3Q23-Barnstead**	EPA 200.7	940858	EPA 200.7	940889
35815955004	**3Q23-R4T5**	EPA 3010A	791667	EPA 6020B	791703
35815955006	**3Q23-R6T4**	EPA 3010A	791667	EPA 6020B	791703
35815955007	**3Q23-R6T8**	EPA 3010A	791667	EPA 6020B	791703
35815955011	**3Q23-R10T8**	EPA 3010A	791667	EPA 6020B	791703
35815955012	**3Q23-R11T4**	EPA 3010A	791667	EPA 6020B	791703
35815955015	**3Q23-SIS-1**	EPA 3010A	791667	EPA 6020B	791703
35815955016	**3Q23-SIS-2**	EPA 3010A	791667	EPA 6020B	791703
35815955017	**3Q23-SIS-3**	EPA 3010A	791667	EPA 6020B	791703
35815955018	**3Q23-SIS-4**	EPA 3010A	791667	EPA 6020B	791703
35815955019	**3Q23-LF-1**	EPA 3010A	791667	EPA 6020B	791703
35815955020	**3Q23-LF-2**	EPA 3010A	791667	EPA 6020B	791703
35815955021	**3Q23-LF-3**	EPA 3010A	791667	EPA 6020B	791703
35815955022	**3Q23-LF-4**	EPA 3010A	791667	EPA 6020B	791703
35815955023	**3Q23-LF-5**	EPA 3010A	791667	EPA 6020B	791703
35815955024	**3Q23-LF-6**	EPA 3010A	791667	EPA 6020B	791703
35815955025	**3Q23-EBLANK2**	EPA 3010A	791667	EPA 6020B	791703
35815955026	**3Q23-Barnstead**	EPA 3010A	791667	EPA 6020B	791703
35815955001	**3Q23-R1T6**	EPA 900.0	609715		
35815955002	**3Q23-R2T1**	EPA 900.0	609715		
35815955003	**3Q23-R3T7**	EPA 900.0	609715		
35815955004	**3Q23-R4T5**	EPA 900.0	609715		
35815955006	**3Q23-R6T4**	EPA 900.0	609715		
35815955007	**3Q23-R6T8**	EPA 900.0	609715		
35815955008	**3Q23-R6T12**	EPA 900.0	609715		
35815955009	**3Q23-R8T10**	EPA 900.0	609715		
35815955010	**3Q23R9T5**	EPA 900.0	609715		
35815955011	**3Q23-R10T8**	EPA 900.0	609715		
35815955012	**3Q23-R11T4**	EPA 900.0	609715		
35815955013	**3Q23-DEEP**	EPA 900.0	609715		
35815955014	**3Q23-EBLANK1**	EPA 900.0	609715		
35815955004	**3Q23-R4T5**	EPA 903.1	606953		
35815955006	**3Q23-R6T4**	EPA 903.1	606953		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35815955007	**3Q23-R6T8**	EPA 903.1	606953		
35815955011	**3Q23-R10T8**	EPA 903.1	606953		
35815955012	**3Q23-R11T4**	EPA 903.1	606953		
35815955015	**3Q23-SIS-1**	EPA 903.1	606953		
35815955016	**3Q23-SIS-2**	EPA 903.1	606953		
35815955017	**3Q23-SIS-3**	EPA 903.1	606953		
35815955018	**3Q23-SIS-4**	EPA 903.1	606953		
35815955019	**3Q23-LF-1**	EPA 903.1	606953		
35815955020	**3Q23-LF-2**	EPA 903.1	606953		
35815955021	**3Q23-LF-3**	EPA 903.1	606953		
35815955022	**3Q23-LF-4**	EPA 903.1	606953		
35815955023	**3Q23-LF-5**	EPA 903.1	606953		
35815955024	**3Q23-LF-6**	EPA 903.1	606953		
35815955025	**3Q23-EBLANK2**	EPA 903.1	606953		
35815955004	**3Q23-R4T5**	EPA 904.0	606955		
35815955006	**3Q23-R6T4**	EPA 904.0	606955		
35815955007	**3Q23-R6T8**	EPA 904.0	606955		
35815955011	**3Q23-R10T8**	EPA 904.0	606955		
35815955012	**3Q23-R11T4**	EPA 904.0	606955		
35815955015	**3Q23-SIS-1**	EPA 904.0	606955		
35815955016	**3Q23-SIS-2**	EPA 904.0	606955		
35815955017	**3Q23-SIS-3**	EPA 904.0	606955		
35815955018	**3Q23-SIS-4**	EPA 904.0	606955		
35815955019	**3Q23-LF-1**	EPA 904.0	606955		
35815955020	**3Q23-LF-2**	EPA 904.0	606955		
35815955021	**3Q23-LF-3**	EPA 904.0	606955		
35815955022	**3Q23-LF-4**	EPA 904.0	606955		
35815955023	**3Q23-LF-5**	EPA 904.0	606955		
35815955024	**3Q23-LF-6**	EPA 904.0	606955		
35815955025	**3Q23-EBLANK2**	EPA 904.0	606955		
35815955004	**3Q23-R4T5**	Total Radium Calculation	610397		
35815955006	**3Q23-R6T4**	Total Radium Calculation	610397		
35815955007	**3Q23-R6T8**	Total Radium Calculation	610397		
35815955011	**3Q23-R10T8**	Total Radium Calculation	610397		
35815955012	**3Q23-R11T4**	Total Radium Calculation	610397		
35815955015	**3Q23-SIS-1**	Total Radium Calculation	610397		
35815955016	**3Q23-SIS-2**	Total Radium Calculation	610397		
35815955017	**3Q23-SIS-3**	Total Radium Calculation	610397		
35815955018	**3Q23-SIS-4**	Total Radium Calculation	610397		
35815955019	**3Q23-LF-1**	Total Radium Calculation	610397		
35815955020	**3Q23-LF-2**	Total Radium Calculation	610397		
35815955021	**3Q23-LF-3**	Total Radium Calculation	610397		
35815955022	**3Q23-LF-4**	Total Radium Calculation	610397		
35815955023	**3Q23-LF-5**	Total Radium Calculation	610397		
35815955024	**3Q23-LF-6**	Total Radium Calculation	610397		
35815955025	**3Q23-EBLANK2**	Total Radium Calculation	610397		
35815955001	**3Q23-R1T6**	EPA 300.0	938277		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35815955002	**3Q23-R2T1**	EPA 300.0	938277		
35815955003	**3Q23-R3T7**	EPA 300.0	938277		
35815955004	**3Q23-R4T5**	EPA 300.0	938277		
35815955005	**3Q23-R6T1**	EPA 300.0	938277		
35815955006	**3Q23-R6T4**	EPA 300.0	938277		
35815955007	**3Q23-R6T8**	EPA 300.0	938277		
35815955008	**3Q23-R6T12**	EPA 300.0	938277		
35815955009	**3Q23-R8T10**	EPA 300.0	938277		
35815955010	**3Q23R9T5**	EPA 300.0	938277		
35815955011	**3Q23-R10T8**	EPA 300.0	938277		
35815955012	**3Q23-R11T4**	EPA 300.0	938277		
35815955013	**3Q23-DEEP**	EPA 300.0	938277		
35815955014	**3Q23-EBLANK1**	EPA 300.0	938277		
35815955015	**3Q23-SIS-1**	EPA 300.0	938277		
35815955016	**3Q23-SIS-2**	EPA 300.0	938277		
35815955017	**3Q23-SIS-3**	EPA 300.0	938277		
35815955018	**3Q23-SIS-4**	EPA 300.0	938277		
35815955019	**3Q23-LF-1**	EPA 300.0	938277		
35815955020	**3Q23-LF-2**	EPA 300.0	938277		
35815955021	**3Q23-LF-3**	EPA 300.0	938279		
35815955022	**3Q23-LF-4**	EPA 300.0	938279		
35815955023	**3Q23-LF-5**	EPA 300.0	938279		
35815955024	**3Q23-LF-6**	EPA 300.0	938279		
35815955025	**3Q23-EBLANK2**	EPA 300.0	938279		
35815955026	**3Q23-Barnstead**	EPA 300.0	938279		
35815955001	**3Q23-R1T6**	EPA 353.2	938393		
35815955002	**3Q23-R2T1**	EPA 353.2	937813		
35815955003	**3Q23-R3T7**	EPA 353.2	939269		
35815955004	**3Q23-R4T5**	EPA 353.2	938393		
35815955005	**3Q23-R6T1**	EPA 353.2	937813		
35815955006	**3Q23-R6T4**	EPA 353.2	938393		
35815955007	**3Q23-R6T8**	EPA 353.2	939269		
35815955008	**3Q23-R6T12**	EPA 353.2	939269		
35815955009	**3Q23-R8T10**	EPA 353.2	939269		
35815955010	**3Q23R9T5**	EPA 353.2	939269		
35815955011	**3Q23-R10T8**	EPA 353.2	939269		
35815955012	**3Q23-R11T4**	EPA 353.2	939269		
35815955013	**3Q23-DEEP**	EPA 353.2	939317		
35815955014	**3Q23-EBLANK1**	EPA 353.2	939319		
35815955001	**3Q23-R1T6**	SM 5310B	939011		
35815955002	**3Q23-R2T1**	SM 5310B	938708		
35815955003	**3Q23-R3T7**	SM 5310B	939020		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV3Q23
Pace Project No.: 35815955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35815955004	**3Q23-R4T5**	SM 5310B	939011		
35815955005	**3Q23-R6T1**	SM 5310B	938708		
35815955006	**3Q23-R6T4**	SM 5310B	939011		
35815955007	**3Q23-R6T8**	SM 5310B	939020		
35815955008	**3Q23-R6T12**	SM 5310B	939020		
35815955009	**3Q23-R8T10**	SM 5310B	939020		
35815955010	**3Q23R9T5**	SM 5310B	939020		
35815955011	**3Q23-R10T8**	SM 5310B	939020		
35815955012	**3Q23-R11T4**	SM 5310B	939020		
35815955013	**3Q23-DEEP**	SM 5310B	939020		
35815955014	**3Q23-EBLANK1**	SM 5310B	939020		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

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

WO# : 35815955

35815955

Company: Gainesville Regional Utilities	Billing Information: PO# 4510059790
Address: 10001 NW 13th St, Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV3Q23	State: FL County/City: /Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-8346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB
Collected By (print):	Purchase Order #: 4510047085 Quote #:
Collected By (signature):	Turnaround Date Required: Normal
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

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

Analysis:

or LAB USE ONLY

Project Manager:

(1) acid, (4) sodium hydroxide, (5) zinc acetate, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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		
3Q23-R1T6	GW	Grab	7-12-23	12:54				4	X	X	X	X	X					
3Q23-R2T1	GW	Grab	7-10-23	12:21				4	X	X	X	X	X					
3Q23-R3T7	GW	Grab	7-18-23	08:10				4	X	X	X	X	X					
3Q23-R4T5	GW	Grab	7-12-23	08:48				5		X	X	X	X	X	X	X		
3Q23-R6T1	GW	Grab	7-10-23	09:07				4	X	X	X	X	X					
3Q23-R6T4	GW	Grab	7-12-23	10:29				5		X	X	X	X	X	X	X		
3Q23-R6T8	GW	Grab	7-18-23	10:34				5		X	X	X	X	X	X	X		
3Q23-R6T12	GW	Grab	7-18-23	14:24				4	X	X	X	X	X					
3Q23-R8T10	GW	Grab	7-19-23	12:09				4	X	X	X	X	X					
3Q23R9T5	GW	Grab	7-18-23	09:25				4	X	X	X	X	X					

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:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

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:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/24/23	hmPace	7/24/23 1115
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

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

Trip Blank Received: Y N NA
HCl MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent 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	Billing Information: PO# 4510059790
Address: 10001 NW 13th St, Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV3Q23	State: FL / County/City: Gainesville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-6346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: 4510047085 Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Normal / Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / 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:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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		
3Q23-R10T8	GW	Grab	7-19-23	10:04				5		X	X	X	X	X	X	X		
3Q23-R11T4	GW	Grab	7-19-23	08:50				5		X	X	X	X	X	X	X		
3Q23-DEEP	GW	Grab	7-18-23	13:36				4	X	X	X	X	X					
3Q23-EBLANK1	GW	Grab	7-14-23	10:26				4	X	X	X	X	X					
3Q23-SIS-1	GW	Grab	7-13-23	10:00				3						X	X	X		
3Q23-SIS-2	GW	Grab	7-13-23	11:08				3						X	X	X		
3Q23-SIS-3	GW	Grab	7-13-23	13:10				3						X	X	X		
3Q23-SIS-4	GW	Grab	7-14-23	10:00				3						X	X	X		
3Q23-LF-1	GW	Grab	7-13-23	08:42				3						X	X	X		
3Q23-LF-2	GW	Grab	7-14-23	11:39				3						X	X	X		

Analyses

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:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

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:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	7/24/23	Pace	7/24/23 1115
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Pages: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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	Billing Information: PO# 4510059790
Address: 1000 NW 13th St, Gainesville, FL 32653	
Report To: Jeff Boudreau	Email To: boudreaujp@gru.com
Copy To:	Site Collection Info/Address: Deerhaven Generating Station
Customer Project Name/Number: ENV3Q23	State: FL County/City: /Gainesville Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 352-393-6346 Email: boudreaujp@gru.com	Site/Facility ID #: 35-000113 / DEELAB; Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order #: 4510047085 Quote #:; DW PWS ID #: DW Location Code:
Collected By (Signature):	Turnaround Date Required: Normal; Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply); Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

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 _____

* 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	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	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 Sample # / Comments
3Q23-LF-3	GW	Grab	7-17-23	08:11				3						X	X	X			
3Q23-LF-4	GW	Grab	7-17-23	09:21				3						X	X	X			
3Q23-LF-5	GW	Grab	7-17-23	11:07				3						X	X	X			
3Q23-LF-6	GW	Grab	7-17-23	13:18				3						X	X	X			
3Q23-EBLANK2	GW	Grab	7-17-23	13:40				3						X	X	X			
3Q23-Barnstead	GW	Grab	7-17-23	13:40				2					X	X	X				

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:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

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:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	7/24/23	kmPace	7/24/23 1115
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of _____

Pace

Sample Condition Upon Receipt Form (SCUR)

WO# : 35815955

PM: JSB **Due Date: 08/11/23**

CLIENT: DEELAB

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: _____

Label: _____

Deliver: FAST

pH: _____

Thermometer Used: T-408 Date: 7/25/23 Time: 1141 Initials: MSF

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

Cooler #1 Temp.°C	24.7 (Visual)	+0.1	(Correction Factor)	24.8	(Actual)
Cooler #2 Temp.°C	25.8 (Visual)	+0.1	(Correction Factor)	25.9	(Actual)
Cooler #3 Temp.°C	23.3 (Visual)	23.4	(Correction Factor)	23.4	(Actual)
Cooler #4 Temp.°C	25.1 (Visual)	+0.1	(Correction Factor)	25.2	(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 # 7815 3302 8402

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: ☑Yes ☐No | Filled Out: ☑Yes ☐No ☐N/A | Relinquished From Pace: ☐Yes ☐No ☑N/A | Sampler Name: ☐Yes ☑No ☐N/A			
	Relinquished To Pace: ☑Yes ☐No ☐N/A | Sampling Date(s): ☑Yes ☐No ☐N/A | Sampling Time(s): ☑Yes ☐No ☐N/A			
Samples Arrived within Hold Time	☑Yes	☐No	☐N/A	Comments
Rush Turnaround Requested on COC	☐Yes	☐No	☑N/A	Comments
Sufficient Volume	☐Yes	☑No	☐N/A	Comments
Correct Containers Used	☑Yes	☐No	☐N/A	Comments
Containers Intact	☐Yes	☑No	☐N/A	Comments
Sample Labels Match COC (Sample ID, Date/Time of Collection)	☑Yes	☐No	☐N/A	Comments
All containers needing acid / base preservation have been checked	☑Yes	☐No	☐N/A	Preservation Information
All containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, PFAS	☑Yes #5814	☐No	☐N/A	Preservative: HNO3 Lot / Trace: 2252003 Amount added (mL): 1 Date: 8/4/23 Time: 1506 Initials: AS
Headspace in Volatile Vials? (>6mm):	☐Yes	☐No	☑N/A	
Trip Blank Present:	☐Yes	☐No	☑N/A	

Comments / Resolutions (use back for additional comments): Sample "R6T1" gross alpha container arrived empty with lid off & sample "EBlank1" arrived half empty for gross alpha

Pace

Sample Condition Upon Receipt Form (SCUR)

WO# : 35815955

PM: JSB Due Date: 08/11/23

CLIENT: DEELAB

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents: _____

Label: EAS1

Deliver: EAS1

pH: _____

Thermometer Used T-408 Date: 7/26/23 Time: 1147 Initials: EAS1

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

Cooler #1 Temp.°C 8.9 (Visual) +0.1 (Correction Factor) 9.0 (Actual) ☐Samples on ice, cooling process has begun

Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐Samples on ice, cooling process has begun

Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐Samples on ice, cooling process has begun

Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐Samples on ice, cooling process has begun

Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐Samples on ice, cooling process has begun

Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual) ☐Samples on ice, cooling process has begun

Recheck for OOT °C 10.9 (Visual) +0.1 (Correction Factor) 11.0 (Actual) Time: 1147 Initials: NPI

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 # 7815 3318 9896

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

Comments / Resolutions (use back for additional comments):

Qualtrax Document ID: 33786

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

September 18, 2023

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 7/18/2023. 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

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

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

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q23
Project Manager: Jeff Boudreau

Reported:
09/18/2023 17:22

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K23G058-01	SIS-1	Groundwater	07/13/2023 10:00	07/18/2023 09:49
K23G058-02	SIS-2	Groundwater	07/13/2023 11:08	07/18/2023 09:49
K23G058-03	SIS-3	Groundwater	07/13/2023 13:10	07/18/2023 09:49
K23G058-04	SIS-4	Groundwater	07/14/2023 10:00	07/18/2023 09:49
K23G058-05	LF-1	Groundwater	07/13/2023 08:42	07/18/2023 09:49
K23G058-06	LF-2	Groundwater	07/14/2023 11:39	07/18/2023 09:49
K23G058-07	LF-3	Groundwater	07/17/2023 08:11	07/18/2023 09:49
K23G058-08	LF-4	Groundwater	07/17/2023 09:21	07/18/2023 09:49
K23G058-09	LF-5	Groundwater	07/17/2023 11:07	07/18/2023 09:49
K23G058-10	LF-6	Groundwater	07/17/2023 13:18	07/18/2023 09:49
K23G058-11	EBLANK2	Groundwater	07/17/2023 13:40	07/18/2023 09:49

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

SIS-1

K23G058-01 (Groundwater, Grab)

Collected: 07/13/2023 10:00 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	60.4		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	111		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	485		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

SIS-2

K23G058-02 (Groundwater, Grab)

Collected: 07/13/2023 11:08 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	9.5		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	97.5		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	363		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

SIS-3

K23G058-03 (Groundwater, Grab)

Collected: 07/13/2023 1:10 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	19.5		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	59.3		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	236		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

SIS-4

K23G058-04 (Groundwater, Grab)

Collected: 07/14/2023 10:00 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	3.2	I	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	19.5		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	61.4		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	267		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-1

K23G058-05 (Groundwater, Grab)

Collected: 07/13/2023 8:42 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	233		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	52.2		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	16.8		2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	212		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-2

K23G058-06 (Groundwater, Grab)

Collected: 07/14/2023 11:39 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	31.9		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.13	I	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	15.2		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	4.0	I	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	5.4		1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	211		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-3

K23G058-07 (Groundwater, Grab)

Collected: 07/17/2023 8:11 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	51.5		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	15.8		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	7.2		1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	403		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-4

K23G058-08 (Groundwater, Grab)

Collected: 07/17/2023 9:21 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	35.7		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	I	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	12.4		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	129		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-5

K23G058-09 (Groundwater, Grab)

Collected: 07/17/2023 11:07 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	37.1		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	49.1		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	5.6		1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	18.8		2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	580		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

LF-6

K23G058-10 (Groundwater, Grab)

Collected: 07/17/2023 1:18 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	19.6		0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	55.0		0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.8	I	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	4.2	I	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Total Dissolved Solids	211		10	40	mg/L	1	07/19/2023	07/19/2023	SM 2540C
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

EBLANK2

K23G058-11 (Groundwater, Grab)

Collected: 07/17/2023 1:40 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Arsenic	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Barium	0.2	U	0.2	0.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	09/05/2023	09/13/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	09/05/2023	09/13/2023	EPA 200.7
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

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
Batch B23I022 - EPA 200.7											
Blank (B23I022-BLK1)									Prepared: 9/5/2023 Analyzed: 9/13/2023		
Molybdenum	2.5 U		2.5	10.0	ug/L						
Beryllium	0.10 U		0.10	0.40	ug/L						
Chromium	1.2 U		1.2	4.8	ug/L						
Selenium	4.0 U		4.0	16.0	ug/L						
Arsenic	2.5 U		2.5	10.0	ug/L						
Barium	0.2 U		0.2	0.8	ug/L						
Cadmium	0.3 U		0.3	1.2	ug/L						
Cobalt	1.0 U		1.0	4.0	ug/L						
Lead	3.0 U		3.0	12.0	ug/L						
Calcium	0.10 U		0.10	0.40	mg/L						
LCS (B23I022-BS1)									Prepared: 9/5/2023 Analyzed: 9/13/2023		
Cobalt	104				ug/L	99.6		104	90-110		
Calcium	25.5				mg/L	24.7		103	90-110		
Lead	102				ug/L	101		101	90-110		
Chromium	103				ug/L	99.9		103	90-110		
Cadmium	99.6				ug/L	100		99.6	90-110		
Molybdenum	104				ug/L	99.4		105	90-110		
Barium	102				ug/L	100		102	90-110		
Selenium	96.0				ug/L	98.6		97.3	90-110		
Beryllium	102				ug/L	101		101	90-110		
Arsenic	103				ug/L	100		103	90-110		
Duplicate (B23I022-DUP1)			**Source: K23G058-05**						Prepared: 9/5/2023 Analyzed: 9/13/2023		
Selenium	4.0 U		4.0	16.0	ug/L		ND			10.6	
Calcium	51.5		0.10	0.40	mg/L		52.2			0.996	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			22.4	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	
Cobalt	1.0 U		1.0	4.0	ug/L		ND			22.2	
Barium	232		0.2	0.8	ug/L		233			0.325	
Chromium	1.2 U		1.2	4.8	ug/L		ND			NR	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			NR	
Cadmium	0.3 U		0.3	1.2	ug/L		ND			NR	
Molybdenum	16.6		2.5	10.0	ug/L		16.8			0.550	
Duplicate (B23I022-DUP2)			**Source: K23H010-01**						Prepared: 9/5/2023 Analyzed: 9/13/2023		
Selenium	4.0 U		4.0	16.0	ug/L		ND			195	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			47.1	
Molybdenum	6.6 I		2.5	10.0	ug/L		6.8			1.83	
Arsenic	4.0 I		2.5	10.0	ug/L		3.7			5.64	
Barium	33.4		0.2	0.8	ug/L		33.2			0.452	
Lead	3.0 U		3.0	12.0	ug/L		ND			NR	

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

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
Batch B23I022 - EPA 200.7 (Continued)											
Duplicate (B23I022-DUP2)		**Source: K23H010-01**					Prepared: 9/5/2023 Analyzed: 9/13/2023				
Calcium	109		0.10	0.40	mg/L		108			0.336	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			NR	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			NR	
Chromium	4.7	I	1.2	4.8	ug/L		4.7			0.783	
Matrix Spike (B23I022-MS1)		**Source: K23G058-05**					Prepared: 9/5/2023 Analyzed: 9/13/2023				
Arsenic	206		2.5	10.0	ug/L	200	ND	103	90-110		
Chromium	207		1.2	4.8	ug/L	200	ND	104	90-110		
Selenium	51.4		4.0	16.0	ug/L	50.0	ND	103	90-110		
Beryllium	204		0.10	0.40	ug/L	200	ND	102	90-110		
Molybdenum	554		2.5	10.0	ug/L	500	16.8	107	90-110		
Cadmium	48.9		0.3	1.2	ug/L	50.0	ND	97.8	90-110		
Lead	204		3.0	12.0	ug/L	200	ND	102	90-110		
Calcium	76.0		0.10	0.40	mg/L	25.0	52.2	95.2	90-110		
Barium	738		0.2	0.8	ug/L	500	233	101	90-110		
Cobalt	210		1.0	4.0	ug/L	200	ND	105	90-110		
Matrix Spike (B23I022-MS2)		**Source: K23H010-01**					Prepared: 9/5/2023 Analyzed: 9/13/2023				
Molybdenum	10700		50.0	200	ug/L	10000	ND	107	90-110		
Lead	4030		60.0	240	ug/L	4000	ND	101	90-110		
Cobalt	4200		20.0	80.0	ug/L	4000	ND	105	90-110		
Chromium	4110		24.0	96.0	ug/L	4000	ND	103	90-110		
Cadmium	982		6.0	24.0	ug/L	1000	ND	98.2	90-110		
Calcium	627		2.00	8.00	mg/L	500	108	104	90-110		
Selenium	1030		80.0	320	ug/L	1000	ND	103	90-110		
Arsenic	4090		50.0	200	ug/L	4000	ND	102	90-110		
Beryllium	4130		2.00	8.00	ug/L	4000	ND	103	90-110		
Barium	10200		4.0	16.0	ug/L	10000	33.2	102	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

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
Batch B23G120 - DEFAULT PREP - Wet Chem											
Blank (B23G120-BLK1)							Prepared & Analyzed: 7/19/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23G120-DUP1)			**Source: K23G058-01**				Prepared & Analyzed: 7/19/2023				
Total Dissolved Solids	488		10	40	mg/L		485			0.436	
Reference (B23G120-SRM1)							Prepared & Analyzed: 7/19/2023				
Total Dissolved Solids	243				mg/L	240		101	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven CCR Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 17:22

Notes and Definitions

Qualifier	Description
U	Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
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 #K23G058 1 of 1

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:	ENV3Q23			Container Preservation Type												
				N	N	I	I	I	N	N	N	N	I	I	N	
Sample Collector(s):	Charles Davis			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	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	K23G058 Sample ID
JMD ~~3Q23-R3T7~~	~~GW~~	~~7/18/2023 / 08:10~~	~~2~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~								
JMD ~~3Q23-EBLANK-1~~	~~GW~~	~~7-14-2023 / 10:26~~	~~1~~	~~X~~	~~X~~											
3Q23-SIS-1	GW	7-13-2023 / 10:00	2		X			X	X							-01
3Q23-SIS-2	GW	7-13-2023 / 11:08	2		X			X	X							-02
3Q23-SIS-3	GW	7-13-2023 / 13:10	2		X			X	X							-03
3Q23-SIS-4	GW	7-14-2023 / 10:00	2		X			X	X							-04
3Q23-LF-1	GW	7-13-2023 / 08:42	2		X			X	X							-05
3Q23-LF-2	GW	7-14-2023 / 11:39	2		X			X	X							-06
3Q23-LF-3	GW	7-17-2023 / 08:11	2		X			X	X							-07
3Q23-LF-4	GW	7-17-2023 / 09:21	2		X			X	X							-08
3Q23-LF-5	GW	7-17-2023 / 11:07	2		X			X	X							-09
3Q23-LF-6	GW	7-17-2023 / 13:18	2		X			X	X							-10
3Q23-EBLANK-2	GW	7-17-2023 / 13:40	1		X				X							-11

Kimberly Alonzo 7/18/23 9:49 — Jack M. [signature] 07/18/23 0949

Released By | Date/Time | Received By | Date/Time

Released By | Date/Time | Received By | Date/Time

* Note - Samples for TDS received on ice. (JMD 07/18/23)

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

September 18, 2023

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 between 7/11/2023 and 7/19/2023. 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

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K23G032-01	R1T6 (MWD-1-6)	Groundwater	07/12/2023 12:54	07/12/2023 14:47
K23G032-02	R2T1 (MWB-2-1)	Groundwater	07/10/2023 12:21	07/11/2023 08:07
K23G032-03	R3T7 (MWI-3-7)	Groundwater	07/18/2023 08:10	07/18/2023 09:49
K23G032-04	R4T5B (MWI-4-5)	Groundwater	07/12/2023 08:48	07/12/2023 14:47
K23G032-05	R6T1B (MWD-6-1)	Groundwater	07/10/2023 09:07	07/11/2023 08:07
K23G032-06	R6T4B (MWI-6-4)	Groundwater	07/12/2023 10:29	07/12/2023 14:47
K23G032-07	R6T8B (MWI-6-8)	Groundwater	07/18/2023 10:34	07/19/2023 08:14
K23G032-08	R6T12 (MWD-6-12)	Groundwater	07/18/2023 14:24	07/19/2023 08:14
K23G032-09	R8T10 (MWC-8-10)	Groundwater	07/19/2023 12:09	07/19/2023 14:28
K23G032-10	R9T5B (MWI-9-5)	Groundwater	07/18/2023 09:25	07/19/2023 08:14
K23G032-11	R10T8 (MWC-10-8)	Groundwater	07/19/2023 10:04	07/19/2023 14:28
K23G032-12	R11T4B (MWC-11-4)	Groundwater	07/19/2023 08:50	07/19/2023 14:28
K23G032-13	DEEP-1 (MWC-DEEP)	Groundwater	07/18/2023 13:36	07/19/2023 08:14
K23G032-14	EBLANK1	Water	07/14/2023 10:26	07/18/2023 09:49
K23G032-15	BARNSTEAD	Water	07/10/2023 07:05	07/11/2023 08:07

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

R4T5B (MWI-4-5)

K23G032-04 (Groundwater, Grab)

Collected: 07/12/2023 8:48 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Aluminum	132		5.0	20.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Barium	9.5		0.2	0.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Calcium	78.5		0.10	0.40	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Chromium	1.8	I	1.2	4.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Iron	13000		42.0	168	ug/L	10	08/10/2023	09/01/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Magnesium	16.9		0.01	0.04	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Manganese	74.6		1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Silver	0.6	U	0.6	2.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Strontium	78.3		0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Color	120		25	100	Color Units	5	07/13/2023	07/13/2023	SM 2120B
Total Dissolved Solids	367		10	40	mg/L	1	07/13/2023	07/13/2023	SM 2540C
TSS	1	U	1	4	mg/L	1	07/13/2023	07/13/2023	SM 2540D
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

R6T4B (MWI-6-4)

K23G032-06 (Groundwater, Grab)

Collected: 07/12/2023 10:29 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Aluminum	94.7		5.0	20.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Barium	20.6		0.2	0.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Calcium	55.3		0.10	0.40	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Iron	1040		4.2	16.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Magnesium	6.49		0.01	0.04	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Manganese	45.4		1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Nickel	2.7	I	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Silver	0.6	U	0.6	2.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Strontium	106		0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Vanadium	14.8		3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Wet Chemistry by APHA/EPA Methods									
Color	74		10	40	Color Units	2	07/13/2023	07/13/2023	SM 2120B
Total Dissolved Solids	275		10	40	mg/L	1	07/13/2023	07/13/2023	SM 2540C
TSS	1	U	1	4	mg/L	1	07/13/2023	07/13/2023	SM 2540D
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

EBLANK1

K23G032-14 (Water, Grab)

Collected: 07/14/2023 10:26 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
Laboratory: Kanapaha Laboratory									
Metals by EPA 200 Series Methods									
Aluminum	5.0	U	5.0	20.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Arsenic	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Barium	0.2	U	0.2	0.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cadmium	0.3	U	0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Copper	1.5	U	1.5	6.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Iron	4.2	U	4.2	16.8	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Magnesium	0.01	U	0.01	0.04	mg/L	1	08/10/2023	09/01/2023	EPA 200.7
Manganese	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Nickel	1.0	U	1.0	4.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Silver	0.6	U	0.6	2.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Strontium	0.3	U	0.3	1.2	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Vanadium	3.0	U	3.0	12.0	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Zinc	2.1	U	2.1	8.4	ug/L	1	08/10/2023	09/01/2023	EPA 200.7
Laboratory: Pace Analytical									
EPA 245.1									
Mercury	0.090	U	0.090	0.20	ug/L	1	08/03/2023	08/03/2023	EPA 245.1

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23H074 - EPA 200.7											
Blank (B23H074-BLK1)						Prepared: 8/10/2023 Analyzed: 9/1/2023					
Selenium	4.0 U		4.0	16.0	ug/L						
Iron	4.2 U		4.2	16.8	ug/L						
Copper	1.5 U		1.5	6.0	ug/L						
Cobalt	1.0 U		1.0	4.0	ug/L						
Lead	3.0 U		3.0	12.0	ug/L						
Barium	0.2 U		0.2	0.8	ug/L						
Magnesium	0.01 U		0.01	0.04	mg/L						
Arsenic	2.5 U		2.5	10.0	ug/L						
Molybdenum	2.5 U		2.5	10.0	ug/L						
Aluminum	5.0 U		5.0	20.0	ug/L						
Strontium	0.3 U		0.3	1.2	ug/L						
Silver	0.6 U		0.6	2.4	ug/L						
Vanadium	3.0 U		3.0	12.0	ug/L						
Chromium	1.2 U		1.2	4.8	ug/L						
Zinc	2.1 U		2.1	8.4	ug/L						
Calcium	0.10 U		0.10	0.40	mg/L						
Beryllium	0.10 U		0.10	0.40	ug/L						
Manganese	1.0 U		1.0	4.0	ug/L						
Nickel	1.0 U		1.0	4.0	ug/L						
Cadmium	0.3 U		0.3	1.2	ug/L						
LCS (B23H074-BS1)						Prepared: 8/10/2023 Analyzed: 9/1/2023					
Aluminum	106				ug/L	100		106	90-110		
Vanadium	105				ug/L	99.5		105	90-110		
Arsenic	101				ug/L	100		101	90-110		
Magnesium	26.1				mg/L	24.6		106	90-110		
Nickel	104				ug/L	101		103	90-110		
Barium	104				ug/L	100		104	90-110		
Lead	101				ug/L	101		99.9	90-110		
Beryllium	105				ug/L	101		104	90-110		
Copper	106				ug/L	99.8		106	90-110		
Cobalt	105				ug/L	99.6		106	90-110		
Selenium	96.4				ug/L	98.6		97.8	90-110		
Silver	51.4				ug/L	50.0		103	90-110		
Calcium	25.9				mg/L	24.7		105	90-110		
Chromium	96.4				ug/L	99.9		96.5	90-110		
Manganese	106				ug/L	101		105	90-110		
Zinc	101				ug/L	100		101	90-110		
Strontium	104				ug/L	100		104	90-110		
Iron	104				ug/L	101		103	90-110		
Cadmium	100				ug/L	100		100	90-110		
Molybdenum	104				ug/L	99.4		104	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23H074 - EPA 200.7 (Continued)											
Duplicate (B23H074-DUP1)	**Source: K23G032-03**					Prepared: 8/10/2023 Analyzed: 9/1/2023					
Arsenic	2.5	U	2.5	10.0	ug/L		ND			1.81	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			NR	
Strontium	242		0.3	1.2	ug/L		238			0.924	
Aluminum	11.5	I	5.0	20.0	ug/L		10.4			7.01	
Barium	2.0		0.2	0.8	ug/L		1.9			1.58	
Chromium	1.2	U	1.2	4.8	ug/L		ND			13.0	
Calcium	71.4		0.10	0.40	mg/L		70.5			0.900	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			NR	
Vanadium	7.1	I	3.0	12.0	ug/L		6.8			3.10	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			44.4	
Lead	3.0	U	3.0	12.0	ug/L		ND			109	
Selenium	4.0	U	4.0	16.0	ug/L		ND			101	
Manganese	42.6		1.0	4.0	ug/L		41.5			1.76	
Zinc	2.1	U	2.1	8.4	ug/L		ND			6.13	
Silver	0.6	U	0.6	2.4	ug/L		ND			NR	
Copper	1.5	U	1.5	6.0	ug/L		ND			51.5	
Iron	1640		4.2	16.8	ug/L		1610			1.32	
Magnesium	11.8		0.01	0.04	mg/L		11.6			1.33	
Molybdenum	12.4		2.5	10.0	ug/L		12.2			1.37	
Nickel	3.9	I	1.0	4.0	ug/L		3.7			2.68	
Duplicate (B23H074-DUP2)	**Source: K23G032-11**					Prepared: 8/10/2023 Analyzed: 9/1/2023					
Magnesium	2.70		0.01	0.04	mg/L		2.71			0.288	
Manganese	15.3		1.0	4.0	ug/L		15.4			0.180	
Molybdenum	2.5	U	2.5	10.0	ug/L		ND			NR	
Lead	3.0	U	3.0	12.0	ug/L		ND			NR	
Selenium	4.0	U	4.0	16.0	ug/L		ND			NR	
Silver	0.6	U	0.6	2.4	ug/L		ND			NR	
Vanadium	3.0	U	3.0	12.0	ug/L		ND			NR	
Nickel	1.0	U	1.0	4.0	ug/L		ND			NR	
Iron	216		4.2	16.8	ug/L		218			0.616	
Copper	1.5	U	1.5	6.0	ug/L		ND			NR	
Chromium	1.2	U	1.2	4.8	ug/L		ND			7.01	
Zinc	2.1	U	2.1	8.4	ug/L		ND			NR	
Calcium	16.6		0.10	0.40	mg/L		16.6			0.107	
Cadmium	0.3	U	0.3	1.2	ug/L		ND			NR	
Beryllium	0.10	U	0.10	0.40	ug/L		ND			29.4	
Barium	2.8		0.2	0.8	ug/L		2.8			0.0756	
Arsenic	2.5	U	2.5	10.0	ug/L		ND			29.7	
Aluminum	13.4	I	5.0	20.0	ug/L		13.5			0.529	
Cobalt	1.0	U	1.0	4.0	ug/L		ND			NR	
Strontium	16.9		0.3	1.2	ug/L		16.9			0.284	

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23H074 - EPA 200.7 (Continued)											
Matrix Spike (B23H074-MS1)		**Source: K23G032-03**					Prepared: 8/10/2023 Analyzed: 9/1/2023				
Calcium	96.7		0.10	0.40	mg/L	25.0	70.5	105	90-110		
Aluminum	521		5.0	20.0	ug/L	500	10.4	102	90-110		
Magnesium	37.3		0.01	0.04	mg/L	25.0	11.6	103	90-110		
Arsenic	205		2.5	10.0	ug/L	200	ND	102	90-110		
Copper	209		1.5	6.0	ug/L	200	ND	105	90-110		
Chromium	195		1.2	4.8	ug/L	200	ND	97.4	90-110		
Cobalt	211		1.0	4.0	ug/L	200	ND	106	90-110		
Nickel	211		1.0	4.0	ug/L	200	3.7	103	90-110		
Vanadium	516		3.0	12.0	ug/L	500	6.8	102	90-110		
Lead	204		3.0	12.0	ug/L	200	ND	102	90-110		
Cadmium	48.9		0.3	1.2	ug/L	50.0	ND	97.8	90-110		
Manganese	249		1.0	4.0	ug/L	200	41.5	104	90-110		
Molybdenum	544		2.5	10.0	ug/L	500	12.2	106	90-110		
Beryllium	209		0.10	0.40	ug/L	200	ND	105	90-110		
Iron	2660		4.2	16.8	ug/L	1000	1610	105	90-110		
Selenium	48.3		4.0	16.0	ug/L	50.0	ND	96.6	90-110		
Barium	515		0.2	0.8	ug/L	500	1.9	103	90-110		
Zinc	197		2.1	8.4	ug/L	200	ND	98.4	90-110		
Silver	47.6		0.6	2.4	ug/L	50.0	ND	95.1	90-110		
Strontium	773		0.3	1.2	ug/L	500	238	107	90-110		
Matrix Spike (B23H074-MS2)		**Source: K23G032-11**					Prepared: 8/10/2023 Analyzed: 9/1/2023				
Cadmium	48.4		0.3	1.2	ug/L	50.0	ND	96.8	90-110		
Molybdenum	522		2.5	10.0	ug/L	500	ND	104	90-110		
Cobalt	207		1.0	4.0	ug/L	200	ND	103	90-110		
Chromium	192		1.2	4.8	ug/L	200	ND	96.1	90-110		
Calcium	42.5		0.10	0.40	mg/L	25.0	16.6	103	90-110		
Vanadium	499		3.0	12.0	ug/L	500	ND	99.7	90-110		
Arsenic	198		2.5	10.0	ug/L	200	ND	98.8	90-110		
Iron	1220		4.2	16.8	ug/L	1000	218	100	90-110		
Silver	46.1		0.6	2.4	ug/L	50.0	ND	92.2	90-110		
Copper	200		1.5	6.0	ug/L	200	ND	99.9	90-110		
Beryllium	205		0.10	0.40	ug/L	200	ND	102	90-110		
Aluminum	519		5.0	20.0	ug/L	500	13.5	101	90-110		
Selenium	48.2		4.0	16.0	ug/L	50.0	ND	96.3	90-110		
Magnesium	28.2		0.01	0.04	mg/L	25.0	2.71	102	90-110		
Manganese	219		1.0	4.0	ug/L	200	15.4	102	90-110		
Barium	503		0.2	0.8	ug/L	500	2.8	100	90-110		
Nickel	204		1.0	4.0	ug/L	200	ND	102	90-110		
Zinc	192		2.1	8.4	ug/L	200	ND	95.8	90-110		
Strontium	528		0.3	1.2	ug/L	500	16.9	102	90-110		
Lead	198		3.0	12.0	ug/L	200	ND	99.0	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23G057 - DEFAULT PREP - Wet Chem											
Duplicate (B23G057-DUP1)			**Source: K23G032-02**				Prepared & Analyzed: 7/11/2023				
Color	5	U	5	20	Color Units		ND			0.00	
Reference (B23G057-SRM1)							Prepared & Analyzed: 7/11/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23G057-SRM2)							Prepared & Analyzed: 7/11/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23G070 - DEFAULT PREP - Wet Chem											
Blank (B23G070-BLK1)							Prepared & Analyzed: 7/12/2023				
TSS	1	U	1	4	mg/L						
LCS (B23G070-BS1)							Prepared & Analyzed: 7/12/2023				
TSS	79				mg/L	100		79.0	77.1-110		
Duplicate (B23G070-DUP1)			**Source: K23G036-04**				Prepared & Analyzed: 7/12/2023				
TSS	1	U	1	4	mg/L		ND			20.2	
Duplicate (B23G070-DUP2)			**Source: K23G032-02**				Prepared & Analyzed: 7/12/2023				
TSS	1	U	1	4	mg/L		ND			28.3	
Batch B23G073 - DEFAULT PREP - Wet Chem											
Blank (B23G073-BLK1)							Prepared & Analyzed: 7/13/2023				
Total Dissolved Solids	10	U	10	40	mg/L						
Duplicate (B23G073-DUP1)			**Source: K23G032-01**				Prepared & Analyzed: 7/13/2023				
Total Dissolved Solids	310		10	40	mg/L		305			1.15	
Reference (B23G073-SRM1)							Prepared & Analyzed: 7/13/2023				
Total Dissolved Solids	234				mg/L	240		97.5	90-110		
Batch B23G074 - DEFAULT PREP - Wet Chem											
Duplicate (B23G074-DUP1)			**Source: K23G032-04**				Prepared & Analyzed: 7/13/2023				
Color	120		25	100	Color Units		120			0.00	

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23G074 - DEFAULT PREP - Wet Chem (Continued)											
Duplicate (B23G074-DUP1)		**Source: K23G032-04**					Prepared & Analyzed: 7/13/2023				
Reference (B23G074-SRM1)							Prepared & Analyzed: 7/13/2023				
Color	30		5	20	Color Units	30.0		100	90-110	0.00	
Reference (B23G074-SRM2)							Prepared & Analyzed: 7/13/2023				
Color	30		5	20	Color Units	30.0		100	90-110	0.00	
Batch B23G079 - DEFAULT PREP - Wet Chem											
Blank (B23G079-BLK1)							Prepared & Analyzed: 7/13/2023				
TSS	1 U		1	4	mg/L						
LCS (B23G079-BS1)							Prepared & Analyzed: 7/13/2023				
TSS	92				mg/L	100		92.0	77.1-110		
Duplicate (B23G079-DUP1)		**Source: K23G041-04**					Prepared & Analyzed: 7/13/2023				
TSS	2 I		1	4	mg/L		2			11.5	
Batch B23G110 - DEFAULT PREP - Wet Chem											
Duplicate (B23G110-DUP1)		**Source: K23G032-03**					Prepared & Analyzed: 7/18/2023				
Color	14 I		5	20	Color Units		13			5.24	
Reference (B23G110-SRM1)							Prepared & Analyzed: 7/18/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23G110-SRM2)							Prepared & Analyzed: 7/18/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23G119 - DEFAULT PREP - Wet Chem											
Duplicate (B23G119-DUP1)		**Source: K23G032-08**					Prepared & Analyzed: 7/19/2023				
Color	47		5	20	Color Units		47			0.00	

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23G119 - DEFAULT PREP - Wet Chem (Continued)											
Reference (B23G119-SRM1)							Prepared & Analyzed: 7/19/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Reference (B23G119-SRM2)							Prepared & Analyzed: 7/19/2023				
Color	31		5	20	Color Units	30.0		103	90-110	0.00	
Batch B23G121 - DEFAULT PREP - Wet Chem											
Duplicate (B23G121-DUP1)		**Source: K23G032-09**					Prepared & Analyzed: 7/20/2023				
Color	115		25	100	Color Units		115			0.00	
Reference (B23G121-SRM1)							Prepared & Analyzed: 7/20/2023				
Color	30		5	20	Color Units	30.0		100	90-110	0.00	
Reference (B23G121-SRM2)							Prepared & Analyzed: 7/20/2023				
Color	30		5	20	Color Units	30.0		100	90-110	0.00	
Batch B23G125 - DEFAULT PREP - Wet Chem											
Blank (B23G125-BLK1)							Prepared & Analyzed: 7/20/2023				
TSS	1 U		1	4	mg/L						
LCS (B23G125-BS1)							Prepared & Analyzed: 7/20/2023				
TSS	106				mg/L	100		106	77.1-110		
Duplicate (B23G125-DUP1)		**Source: K23G064-04**					Prepared & Analyzed: 7/20/2023				
TSS	1 I		1	4	mg/L		ND			7.44	
Duplicate (B23G125-DUP2)		**Source: K23G063-04**					Prepared & Analyzed: 7/20/2023				
TSS	1 U		1	4	mg/L		ND			47.1	
Batch B23G145 - DEFAULT PREP - Wet Chem											
Blank (B23G145-BLK1)							Prepared & Analyzed: 7/24/2023				
Total Dissolved Solids	10 U		10	40	mg/L						

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

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
Batch B23G145 - DEFAULT PREP - Wet Chem (Continued)											
Duplicate (B23G145-DUP1)		**Source: K23G032-07**					Prepared & Analyzed: 7/24/2023				
Total Dissolved Solids	390		10	40	mg/L		392			0.362	
Reference (B23G145-SRM1)							Prepared & Analyzed: 7/24/2023				
Total Dissolved Solids	238				mg/L	240		99.2	90-110		

Kanapaha Laboratory

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

Florida Department of Health Certification E52099

Deerhaven Laboratory	Project: Environmental - Deerhaven Monitoring Wells	
Station D-38	Project Number: 3Q23	**Reported:**
Gainesville, FL/USA 32614-7117	Project Manager: Jeff Boudreau	09/18/2023 11:10

Notes and Definitions

Qualifier	Description
U	Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
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 #K236032
1 of 5

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:	ENV3Q23			Container Preservation Type											
				N	N	I	I	I	N	N	N	N	I	I	N
Sample Collector(s):	Kent Brakefield, Charles Davis			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	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	Sample ID
3Q23-R2T1	GW	7-10-2023 / 12:21	2	X	X	X	X	X								- 02
3Q23-R6T1	GW	7/10/2023 / 09:07	2	X	X	X	X	X								- 05
3Q23-BARNSTEAD	GW	7-10-2023 / 07:05	1	X												- 15

Kimberly McManus 7/11/23 / 8:07 — Released By / Date/Time
Jack M DH 07/11/23 0807 — Received By / Date/Time

Released By — Date/Time — Received By — Date/Time

* Note - Barnstead Sample - unpreserved sample for chloride/sulfate analysis was received. Notified DH Laboratory on 07/11/23. Will place unpreserved sample in cold room and switch for HNO3 preserved sample. JMD 07/11/23

Work Order #K23G032 2 OF 5

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:	ENV3Q23			Container Preservation Type											
Sample Collector(s):	K.Brakefield, C. Davis			N	N	I	I	I	N	N	N	N	I	I	N
				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	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	Sample ID
3Q23-R1T6	GW	7/12/23 @ 12:54	2	X	X	X	X	X								- 01
3Q23-R4T5	GW	7/12/23 @ ~~10:29~~ 0848	2 JWD	X	X	X	X	X								- 04
3Q23-R6T4	GW	7/12/23 @ ~~08:48~~ 1029	2 JWD	X	X	X	X	X								- 06

K Brakefield — 7/12/23 14:47 — Released By / Date/Time
Received By — 07/12/23 1447 — Received By / Date/Time

Released By — Date/Time — Received By — Date/Time

*Note: Times on COC/Bottles did not match for R4T5 and R6T4. Time that was recorded on bottle was used because that time is recorded in the field during collection. JWD 07/13/23

Work Order #K23G032
3 of 5

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:	ENV3Q23			Container Preservation Type												
				N	N	I	I	I	N	N	N	N	I	I	N	
Sample Collector(s):	Charles Davis			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	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	K23G032 Sample ID
3Q23-R3T7	GW	7/18/2023 / 08:10	2	X	X	X	X	X								-03
3Q23-EBLANK-1	GW	7-14-2023 / 10:26	1	X	X											-14
3Q23-SIS-1	GW	7-13-2023 / 10:00	2		X			X	X							
3Q23-SIS-2	GW	7-13-2023 / 11:08	2		X			X	X							
3Q23-SIS-3	GW	7-13-2023 / 13:10	2		X			X	X							
3Q23-SIS-4	GW	7-14-2023 / 10:00	2		X			X	X							
3Q23-LF-1	GW	7-13-2023 / 08:42	2		X			X	X							
3Q23-LF-2	GW	7-14-2023 / 11:39	2		X			X	X							
3Q23-LF-3	GW	7-17-2023 / 08:11	2		X			X	X							
3Q23-LF-4	GW	7-17-2023 / 09:21	2		X			X	X							
3Q23-LF-5	GW	7-17-2023 / 11:07	2		X			X	X							
3Q23-LF-6	GW	7-17-2023 / 13:18	2		X			X	X							
3Q23-EBLANK-2	GW	7-17-2023 / 13:40	1		X				X							

Kimberly Alonya 7/18/23 9:49 — Jaclyn McDell 07/18/23 0949

Released By — Date/Time — Received By — Date/Time

Released By — Date/Time — Received By — Date/Time

Work Order #K236032 4 of 5

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:	ENV3Q23			Container Preservation Type												
Sample Collector(s):	CHARLES DAVIS			N	N	I	I	I	N	N	N	N	I	I	N	
				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	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	Sample ID
3Q23-R6T8	GW	7-18-2023 / 10:34	2	X	X	X	X	X								-07
3Q23-R6T12	GW	7-18-2023 / 14:24	2	X	X	X	X	X								-08
3Q23-R9T5	GW	7-18-2023 / 09:25	2	X	X	X	X	X								-10
3Q23-DEEP	GW	7-18-2023 / 13:36	2	X	X	X	X	X								-13

Released By	Date/Time	Received By	Date/Time
Kimberly R. [signature]	7/19/23 8:14	[signature]	07/19/23 0814

*Note - Barnstead samples were switched out. JMD 7/19/23

Work Order #K236032 5 OF 5

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:	ENV3Q23			Container Preservation Type											
Sample Collector(s):	JC Davis			N	N	I	I	I	N	N	N	N	I	I	N
				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	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
3Q23-R8T10	GW	7/19/23 @ 12:09	2	X	X	X	X	X							
3Q23-R10T8	GW	7/19/23 @ 10:04	2	X	X	X	X	X							
3Q23-R11T4	GW	7/19/23 @ 8:50	2	X	X	X	X	X							

Sample ID
– 09
– 11
– 12

J Davis 7/19/23
Released By Date/Time

Jack MTDOT 07/19/23 1428
Received By Date/Time

Released By Date/Time Received By Date/Time

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:	1Q23	Date:	1-8-23		Well Type:	I

Purging Data

Diameter(in) 2	Total well depth(ft) 15.08	Depth to water(ft) 10.55	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 5.08 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: 9:56

Well Vol = (15.08 - 10.55) X 0.6 = 2.72 L 1/4 well vol.= 0.7

InitTubing Dpth(ft): ~~12.3~~ 11.1 KM 1-18-23 | Final Tube Dept(ft): 12.0 | Purge Start Time: 9:58 | Purge Stop time: 10:22 | Total Volume Purged 7.65L

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
10:19	0.25	6.25	360	11.48	6.20	22.20	791.6	1.00	0.31	-38.1	yellowish
~~10:19~~ 10:19	0.70	6.95	360	11.48	6.20	22.16	792.4	0.83	0.35	-40.2	Cedar
10:21 KM 1-8-23	0.70	7.65	360	11.48	6.20	22.19	792.9	0.95	0.22	-42.1	Clear
~~10:21~~	0.70	KM 1-8-23 KM									No oder

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. MORRISON	Sampler(s) Signatures: K Morrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 12.0 Time: 10:24	Sampling completed Tube Dpth(ft): 12.0 Time: 10:50
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50038 H2SO4: D50032

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23 R4T5-A	PE	(4000) / 500	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 R4T5 B	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
1Q23 R4T5 C	PE	250	H2SO4/Chill	0.5 m	1.3	Pace: NO2/NO3 and TOC
1Q23 R4T5-D	PE	1000	HNO3	2 mL	1.3	Pace: Gross Alpha
1Q23 R4T5 E	PE	250 (500)	HNO3	0.5 (1.0) mL	1.6	Kanapaha: Metals
1Q23 R4T5 J	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 R4T5 N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 1/2ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 61°F Winds: 4mph NW Cloud Cover: Sunny Precip: N/A
Remarks:

Codes: PP/S + Polypropylene+Silcone 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 7-93
Quarter:	1Q23	Date:	1-8-23		Well Type:	I

Purging Data

Diameter(in)	2	Total well depth(ft)	14.13	Depth to water(ft)	~~10.55~~ 3.95 fm 1-8-23	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: ~~9:56~~ fm 1-8-23

Well Vol = (14.13 - ~~10.55~~ 3.95 fm 1-8-23) X 0.6 = 6.11 L — 1/4 well vol.= 1.5

InitTubing Dpth(ft): 4.45	Final Tube Dept(ft): 4.90 fm 1-8-23	Purge Start Time: 15:59	Purge Stop time: 16:20	Total Volume Purged 9.20 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
16:12 14	6.20	6.20	500	4.38	6.33	20.08	478.8	0.30	0.57	~~6.8~~ 6.8 fm 1-8-23	Sulfur Odor
16:15	1.50	7.70	500	4.38	6.27	20.08	477.5	0.28	0.44	-13.8	Clear - yellowish
16:18	1.50	9.20	500	4.38	6.20	20.22	492.9	0.23	0.50	-20.3	

♣ 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 MORRISON	Sampler(s) Signatures: K Morrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 4.90 Time: 16:22	Sampling completed Tube Dpth(ft): 4.90 Time: 16:40
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0038 H2SO4: DS0032

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23R6T4-A	PE	(4000) / 500	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 R6T4 B	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
1Q23 R6T4 C	PE	250	H2SO4/Chill	0.5 m	1.6	Pace: NO2/NO3 and TOC
1Q23 R6T4 D	PE	1000	HNO3	2 mL	1.6	Pace: Gross Alpha
1Q23 R6T4	PE	250 (500)	HNO3	0.5 / (1.0 mL)	1.6	Kanapaha: Metals
1Q23 R6T4	PE	250	HNO3	0.5 mL	1.6	Pace: Metals
1Q23 R6T4 N	PE	2000	HNO3	4 mL	1.6	Pace: Radium 226+228

Tubing Depth is 1/2 ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 71°F Winds: 4 MPH NE Cloud Cover: Sunny Precip: 1/14
Remarks:

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

DGS Groundwater Sampling Log

WELL ID: **EBLANK 1**

Quarter: 1Q23 Date: 1/10/23

Purging Data

Purging Method: PP **Equipment Volume = 750 mL**

Well Collected At: SIS 1 Purge Start Time: N/A

Time of Depth Meter Decon: 8:15 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): KMORRISON Sampler(s) Signatures: KMorrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 8:17	Sampling completed Time: 8:19
Field Decon: NO	Field Filtered: NO	Duplicate: YES ~~NO~~	Acid ID# HNO3: DS00038 H2SO4: DS00032

Sample Container Specification			Sample Preservation			
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	Intended Analysis or method
1Q23 EBlank 1 - B	PE	250	Chill <6 C	n/a	n/a	Pace Anions
1Q23 EBlank 1 - C	PE	250	H2SO4+Chill	0.5 mL	1.6	Pace NO2/NO3 and TOC
1Q23 EBlank 1 - D	PE	1000	HNO3	2 mL	1.3	Pace Gross Alpha
1Q23 EBlank 1 - E	PE	250 / 500	HNO3	0.5 / 1 mL	1.6	Kanapaha Metals
1Q23 EBlank 1 - J	PE	250	HNO3	0.5 mL	1.6	Pace Metals
—	PE	2000	HNO3	4 mL	—	~~Pace Radium 226+228~~

✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 49°F Winds: Calm Cloud Cover: Cloudy Precip: N/A

Remarks:

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

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: 1Q23 Date: 1/10/23 Well Type: U

Purging Data

Diameter(in)	2	Total well depth(ft)	13.92	Depth to water(ft)	4.97	Well capacity(L/ft)	0.6

Distance from TOC to top of screen 3.92 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: 8:37

Well Vol = (13.92 - 4.97) X 0.6 = 5.8 L 1/4 well vol.=

InitTubing Dpth(ft): 9' Final Tube Depl(ft): 9' Purge Start Time: 8:43 Purge Stop time: 9:18 Total Volume Purged ~~7.5~~ 9.30 L

lcm 1-10-23

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§		
9:07	6.50	6.50	290	5.40	6.47	17.02	459.7	2.70	1.35	273.5	yellowish
9:13	1.40	7.90	290	5.40	6.47	17.86	459.4	2.54	1.67	273.1	clear
9:17	1.40	9.30	290	5.40	6.46	17.15	459.3	2.45	1.49	273.7	NO 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:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 9:19	Sampling completed Tube Dpth(ft): 9' Time: 9:37

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: DSW38 H2SO4: ~~DSW42~~

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
1Q23 SIS1 F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 SIS1 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~1Q23 SIS1~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~	~~1.3~~	~~Pace: NO2/NO3 and TOC~~
~~1Q23 SIS1~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~	~~1.3~~	~~Pace: Gross Alpha~~ lcm 1-10-23
1Q23 SIS1-6	PE	250 (500)	HNO3	0.5 (1.0 mL	1, 3	Kanapaha: Metals
1Q23 SIS1-L	PE	250	HNO3	0.5 mL	1, 3	Pace: Metals
1Q23 SIS1N	PE	2000	HNO3	4 mL	1, 3	Pace: Radium 226+228

Tubing Depth is ~~1/2~~ 9' ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 49°F Winds: Calm Cloud Cover: Cloudy Precip: N/a

Remarks:

lcm 1-10-23

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

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:	1Q23	Date:	1/11/23		Well Type:	D

Purging Data

Diameter(in) 2	Total well depth(ft) 14.22	Depth to water(ft) 6.19	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: 10:53

Well Vol = (14.22 - 6.19) X 0.6 = 4.9 L 1/4 well vol.= 1.2

InitTubing Dpth(ft): 91	Final Tube Depl(ft): 91	Purge Start Time: 10:54	Purge Stop time: 11:21	Total Volume Purged 6.70 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
11:14	4.90	4.90	300	6.70	7.10	18.80	574.9	1.78	2.59	131.8	clear
11:17	0.90	5.80 (Lvl 140-2)	300	6.70	7.10	18.77	583.1	1.63	1.89	131.8	Colorless
11:20	0.90	6.70	300	6.70	7.09	18.77	596.3	1.57	1.60	131.9	Noticeable floaters
											No 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): J Davis	Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 91 Time: 11:22	Sampling completed Tube Dpth(ft): 91 Time: 11:36
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0038 H2SO4: —

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23 SIS2 F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 SIS2 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~1Q23 SIS2~~	PE	250	~~H2SO4/Chill~~	0.5 m	—	Pace: NO2/NO3 and TOC
~~1Q23 SIS2~~	PE	1000	~~HNO3~~	2 mL	—	Pace: Gross Alpha
1Q23 SIS2G	PE	250 (500)	HNO3	0.5 (1.0) mL	1.3	Kanapaha: Metals
1Q23 SIS2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 SIS2-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 91 ft ~~below depth to water for every instance~~ ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 63°F Winds: Sunny Cloud Cover: 2 mph NE Precip: N/A
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	SIS-3	Location:	Latitude: 29°45'51.8472"	Longitude: -82°23'35.5632"	MSL @ TOC 183.11	Date In Service 2017
Quarter:	1Q23	Date:	1-11-23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	13.38	Depth to water(ft)	4.28	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: 8:23

Well Vol = (13.38 - 4.28) X 0.6 = 5.5 **L** 1/4 well vol.= 1.4

InitTubing Dpth(ft):	9'	Final Tube Dept(ft):	9'	Purge Start Time:	8:27	Purge Stop time:	9:15	Total Volume Purged	6.60L

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
8:59	5.50	5.50	75	5.74	6.41	18.31	457.6	1.02	5.63	290	Floaters Clear Colorless
9:11	0.90	6.40	75	5.92	6.41	18.44	456.9	1.02	1.17	282.2	
9:14	0.20	6.60	75	5.92	6.41	18.51	456.4	1.06	2.03	281.9	

♣ 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): JC Dennis Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): Time: 9:16	Sampling completed Tube Dpth(ft): Time: 10:03
Field Decon: NO	Field Filtered: NO	Duplicate: YES NO	Acid ID# HNO3: DS0038 H2SO4: —

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
1Q23 SIS3	PE	4000/500	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 SIS3	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~1Q23 SIS3~~	PE	250	~~H2SO4/Chill~~	0.5 m	—	Pace: ~~NO2/NO3~~ and TOC
1Q23 SIS3	PE	1000	~~HNO3~~	2 mL	—	Pace: ~~Gross Alpha~~
1Q23 SIS3	PE	250/500	HNO3	0.5/1.0 mL	1.3	Kanapaha: Metals
1Q23 SIS3	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 SIS3	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 9' ~~ft below depth to water for every instance.~~ Well found locked on arrival Well left locked on departure
Temperature: 58°F Winds: 1mph NE Cloud Cover: Sunny Precip: N/A
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	SIS-4	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'54.144"	-82°23'38.4108"	183.87	2017
Quarter:	1Q23	Date:	1/11/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	13.7	Depth to water(ft)	5.76	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: 9:31

Well Vol = (13.7 - 5.76) X 0.6 = 4.8 L — 1/4 well vol.= 1.2

InitTubing Dpth(ft): 9'	Final Tube Depl(ft): 9'	Purge Start Time: 9:34	Purge Stop time: 10:25	Total Volume Purged 18.90L

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§		
9:48	5.50	5.50	345	6.20	6.74	19.08	1008.5	1.52	5.15	267.4	Orange Floaters yellowish Sulfur Oder
9:51	1.20	6.70	345	6.20	6.67	19.18	649.2	1.20	3.22	262.7	
9:54	1.20	7.90	345	6.20	6.60	19.25	693.7	1.05	2.92	243.5	
9:58	14M 1-11-23										
10:02	2.80	10.70	345	6.28	6.30	19.42	889.4	0.84	2.69	91.7	
10:11	3.10	13.80	345	6.28	6.21	19.52	964.6	0.73	1.48	62.9	
10:15	1.20	15.00	345	6.28	6.19	19.53	972.8	0.71	1.19	53.3	
10:20	1.70	16.70	345	6.28	6.16	19.57	996.0 (1400 µS/cm)	0.68	1.15	41.6	→ Conductivity went up to 1000
10:24	1.20	18.90	345	6.28	6.15	19.58	1005	0.67	0.91	36.8	

♣ 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): KMorrison — Sampler(s) Signatures: KMorrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 10:27	Sampling completed Tube Dpth(ft): 9' Time: 10:39
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0038 H2SO4: —

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23SIS4F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23SIS4-IC	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
—	PE	250	H2SO4/Chill	0.5 m	—	~~Pace: NO2/NO3 and TOC~~
—	PE	1000	HNO3	2 mL	—	~~Pace: Gross Alpha~~
1Q23SIS4-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
1Q23SIS4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23SIS4N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 9' ft ~~below depth to water for every instance~~. ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 58°F Winds: 1 mph NE Cloud Cover: Sunny Precip: N/A
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	LF-1	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'59.0544"	-82°23'51.8244"	185.76	2017

Quarter: 1Q23 Date: 1/10/23 Well Type: U

Purging Data

Diameter(in)	2	Total well depth(ft)	14.88	Depth to water(ft)	6.60	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: 9:31

Well Vol = (14.88 - 6.60) X 0.6 = 5.00 L 1/4 well vol.=

InitTubing Dpth(ft): 8' Final Tube Dept(ft): 8' Purge Start Time: 9:36 Purge Stop time: 958 Total Volume Purged ~~1.3~~ 9.60 L KM 1-10-23

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
				7.05	± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
9:48	5.70	5.70	500	~~5.14~~ 7.10	5.93	19.58	312.2	0.81	4.68	220.0	Sulfur odor
9:51	1.30	7.00	500	7.05	5.85	19.64	296.1	0.60	2.75	146.3	clear
9:54	1.30	8.30	500	7.05	5.83	19.68	286.2	0.54	2.33	119.0	clear
9:57	1.30	9.60	500	7.05	5.83	19.70	281.7	0.50	1.36	100.5	Colorless
											Orange Floaters

♣ 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): — Sampler(s) Signatures: —

Sampling Method: PP Tube Material: PP/S Sampling Started Tube Dpth(ft): 8' Time: 9:59 Sampling completed Tube Dpth(ft): 8' Time: 10:08

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: DS0038 H2SO4: ~~DS0042~~ KM 1-10-23

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23 LF1	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 LF1	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
—	PE	250	H2SO4/Chill	0.5 m	—	Pace: NO2/NO3 and TOC
—	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha
1Q23 LF1	PE	250 /(500)	HNO3	0.5 /(1.0) mL	1.3	Kanapaha: Metals
1Q23 LF1	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 LF1	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 8' ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 54°F Winds: calm Cloud Cover: cloudy Precip: 0
Remarks:

Codes: PP/S + Polypropylene+Silcone 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:	1Q23	Date:	1/10/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	15.36	Depth to water(ft)	4.82	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: ~~10:15~~ 10:05 KM 1-10-23

Well Vol = (15.36 - 4.82) **X** 0.6 = 6.32 **L** 1/4 well vol.= 1.6

InitTubing Dpth(ft):	8'	Final Tube Dept(ft):	8'	Purge Start Time:	10:08	Purge Stop time:	10:29	Total Volume Purged	4.0 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
10:18	2.60	2.60	230	5.09	5.26	17.23	277.4	0.44	13.5	96.0	Petroleum / Diesel Smell!!!
10:21	0.70	3.30	230	5.09	5.26	17.30	280.7	0.34	15.3	90.1	
10:24	0.70	4.00	230	5.09	5.26	17.38	288.6	0.30	~~15.7~~ 19.7 KM 1-10-23	84.1	clear Orange Floaters

♣ 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):	—	Sampler(s) Signatures:	—

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 8' Time: 10:31	Sampling completed Tube Dpth(ft): 8' Time: 10:54
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D580138 H2SO4: D580142

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23 LF2 F	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 LF2 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~1Q23 LF2~~ KM 1-10-23	PE	250	H2SO4/Chill	0.5 m	—	Pace: NO2/NO3 and TOC
~~1Q23 LF2~~	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha
1Q23 LF2 G	PE	250 (500)	HNO3	0.5 / (1.0 mL)	1.3	Kanapaha: Metals
1Q23 LF2 L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 LF2 N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 8' ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 56°F Winds: 2mph E Cloud Cover: Cloudy Precip: M/R

Remarks:

Codes: PP/S + Polypropylene+Silcone 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 183.7	Date In Service 2019
Quarter:	1Q23	Date:	1/10/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	16.29	Depth to water(ft)	4.75	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: 10:40

Well Vol = (16.29 - 4.75) X 0.6 = 11.54 L 1/4 well vol.= 2.9

InitTubing Dpth(ft): 9'	Final Tube Dept(ft): 9'	Purge Start Time: 10:41	Purge Stop time: 11:10	Total Volume Purged 6.3L

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
	.0L				± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
10:57	3,000	3.0 L	300	5.03	6.01	16.38	598.5	0.32	1.88	-68.1	Strong
11:03	1.8 1-10-23 km	4.8	300	5.03	6.00	16.41	600.0	0.29	1.73	-66.5	Sulfur Odor
11:08	1.5	6.3	300	5.03	6.00	16.45	595.1	0.24	1.60	-77.5	yellowish clear

♣ 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 Morrison Sampler(s) Signatures: Kmorrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 11:12	Sampling completed Tube Dpth(ft): 9' Time: 11:26

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: D58038 H2SO4: ~~D58042~~ km 1-10-23

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
1Q23 LF3 F	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 LF3 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~1Q23 LF3~~ km 1-10-23	PE	250	H2SO4/Chill	0.5 m	—	Pace: NO2/NO3 and TOC
~~1Q23 LF3~~ 1-10-23	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha
1Q23 LF3 G	PE	250/(500)	HNO3	0.5/(1.0 mL	<3	Kanapaha: Metals
1Q23 LF3 L	PE	250	HNO3	0.5 mL	<3	Pace: Metals
1Q23 LF3 N	PE	2000	HNO3	4 mL	<3	Pace: Radium 226+228

Tubing Depth is 9 ft ~~below depth to water for every instance.~~ ✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 60°F Winds: 3 mph SE Cloud Cover: partly cloudy Precip: N/A

Remarks:

Codes: PP/S + Polypropylene+Silcone 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:	1Q23	Date:	11/10/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	16.06	Depth to water(ft)	5.20	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: 11:40

Well Vol = (16.06 - 5.20) **X** 0.6 = 6.52 **L** 1/4 well vol.= 1.63

InitTubing Dpth(ft): 9'	Final Tube Dept(ft): 9'	Purge Start Time: 11:41	Purge Stop time: 12:33	Total Volume Purged 12.8 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
11:54	3.1	3.1	270	5.52	5.23	15.9	205.3	0.43	81.3	39.8	DO
12:22	8.1	11.2	270	5.52	5.31	15.7	212.9	0.35	16.5	32.2	Orange Floaters
12:26	0.8	12.0	270	5.52	5.31	15.8	212.4	0.34	15.5	30.7	Cloudy
12:29	0.8	12.8	270	5.52	5.30	15.8	212.8	0.36	12.9	30.0	

♣ 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 Morrison	Sampler(s) Signatures: K Morrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 12:34	Sampling completed Tube Dpth(ft): 9' Time: 12:50
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0038 H2SO4: ~~DS0042~~

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
1Q23 LF4 F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 LF4 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
—	PE	250	H2SO4/Chill	0.5 m	—	Pace: NO2/NO3 and TOC
—	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha
1Q23LF4 G	PE	250 (500)	HNO3	0.5 (1.0 mL	1.3	Kanapaha: Metals
1Q23 LF4 J	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 LF4 N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

KM 1-10-23

Tubing Depth is 9' ~~ft below depth to water for every instance.~~ ✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 65°F Winds: 5mph E Cloud Cover: Sunny Precip: N/A

Remarks: Extended 2nd purge to allow turbidity to stabilize parameter

Codes: PP/S + Polypropylene+Silcone 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:	1Q23	Date:	1/10/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	14.52	Depth to water(ft)	5.79	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: 13:03

Well Vol = (14.52 - 5.79) X 0.6 = 5.24 L 1/4 well vol.=1.31

InitTubing Dpth(ft): 9' Final Tube Dept(ft): 9' Purge Start Time: 13:06 Purge Stop time: 13:37 Total Volume Purged ~~13.0~~ L

1-10-23 13.0

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
13:30	10.0	10.0	480	6.08	5.11	17.69	1037	0.18	8.37	129.7	orange
13:33	1.5	11.5	480	6.08	5.16	17.72	1054	0.19	4.82	114.2	Floaters
13:36	1.5	13.0	480	6.08	5.16	17.72	1059	0.19	4.05	92.2	Sulfur odor clear

♣ 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 MORRISON Sampler(s) Signatures: KMorrison

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 13:38	Sampling completed Tube Dpth(ft): 9' Time: 13:45
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0038 H2SO4: ~~DS0042~~ 1-10-23

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
1Q23 ~~LF5~~ LF5 F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23 LF5 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
———	PE	250	~~H2SO4~~/Chill	0.5 m	———	Pace: NO2/NO3 and TOC
———	PE	1000	~~HNO3~~	2 mL	———	Pace: Gross Alpha
1Q23 LF5 G	PE	250 (500)	HNO3	0.5 (1.0 mL	1.3	Kanapaha: Metals
1Q23 LF5 L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23 LF5 N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 9' ~~ft below depth to water for every instance.~~ ✓Well found locked on arrival ✓Well left locked on departure

Temperature: 68°F Winds: 6 mph SE Cloud Cover: Sunny Precip: N/A

Remarks: Extended purge due to turbidity. wanted to allow it to stabilize

Codes: PP/S + Polypropylene+Silcone 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:	1Q23	Date:	1/10/23		Well Type:	D

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 6.15	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: 13:57

Well Vol = (14.52 - 6.15) X 0.6 = 5.02 **L** 1/4 well vol.= 1.3

InitTubing Dpth(ft): 9' | Final Tube Dept(ft): 9' | Purge Start Time: 13:58 | Purge Stop time: 14:37 | Total Volume Purged 14.0 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§		
14:13	5.40	5.40	380	6.59	6.51	18.47	~~6.5~~ 225.1	1.71	20.7	49.6	milky cloudy
14:18	1.90	7.30	380	6.59	6.48	18.41	231.2	1.38	17.5	50.9	
14:21	1.20	8.50	380	6.59	6.47	18.40	236.4	1.29	13.5	57.4	
14:24	1.20	9.70	380	6.59	6.44	18.40	245.2	1.16	12.3	60.5	
14:29	1.90	11.60	380	6.59	6.41	18.40	254.2	1.09	10.7	65.3	
14:32	1.20	12.80	380	6.59	6.39	18.40	259.5	0.92	8.51	68.1	
~~14:35~~ 14:35 KM 1-10-23	1.20	14.00	380	6.59	6.38	18.35	263.4	0.79	7.47	64.7	

♣ 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): KMcNeese		Sampler(s) Signatures: KMcN	
Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9' Time: 14:38 (8 KM 1-11-23)	Sampling completed Tube Dpth(ft): 9' Time: 14:50
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D30038 H2SO4: D25004 2 KM 1-10-23

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
1Q23LF6 F	PE	4000 / (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
1Q23LF6 K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
—	PE	250	H2SO4/Chill	0.5 m	—	Pace: NO2/NO3 and TOC
—	PE	1000	HNO3	2 mL	—	Pace: Gross Alpha
1Q23LF6 G	PE	250 / (500)	HNO3	0.5 / (1.0 mL)	1.3	Kanapaha: Metals
1Q23LF6 L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals
1Q23LF6 N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 9' ft ~~below depth to water for every instance.~~ ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 67°F Winds: ~~Strong~~ 1-10-23 KM 6 mph SE Cloud Cover: Sunny Precip: N/A
Remarks:

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

DGS Groundwater Sampling Log

WELL ID: EBLANK 2

Quarter: ~~1Q23~~ KM 1-11-23 Date: 1/11/23

1Q23

Purging Data

Purging Method: PP **Equipment Volume = 750 mL**

Well Collected At: SIS 4 Purge Start Time: N/A

Time of Depth Meter Decon: 10:35 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): KMorrison Sampler(s) Signatures: KMorrison

Sampling Method: PP | Tube Material: PP/S | Sampling Started Time: 10:37 | Sampling completed Time: 10:39

Field Decon: NO | Field Filtered: NO | Duplicate: YES (NO) | Acid ID# HNO3: DS0038 H2SO4: —

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	
1Q23 EBlank2	PE	250	Chill <6 C	n/a	n/a	Pace Anions
~~1Q23 EBlank2~~ 1Q23 EBlank2 KM 1-11-23	PE	250	H2SO4+Chill	0.5 mL	—	Pace ~~NO2/NO3 and TOC~~ ✓ Flag Storm
~~1Q23 EBlank2~~ KM 1-10-23	PE	~~1000~~	~~HNO3~~	~~2 mL~~	—	Pace ~~Gross Alpha~~
1Q23 EBlank2 ~~1Q23 EBlank2~~	PE	~~250 / 500~~ KM 1-11-23	~~HNO3~~	~~0.5 / 1 mL~~	1.3	Kanapaha Metals
1Q23 EBank2	PE	250	HNO3	0.5 mL	1.3	Pace Metals
1Q23 EBlank2	PE	2000	HNO3	4 mL	1.3	Pace Radium 226+228

✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: ~~58~~ 67F Winds: 7 mph Cloud Cover: Sunny Precip: N/A

Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	R4T5	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'52.14"	-82°23'33.18"	187.46	7-93

Quarter: 3Q23 Date: 7/12/23 Well Type: I

Purging Data

Diameter(in)	2	Total well depth(ft)	15.08	Depth to water(ft)	9.78	Well capacity(L/ft)	0.6

Distance from TOC to top of screen 5.08 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: 0815

Well Vol = (15.08 - 9.78) X 0.6 = 3.18 L 1/4 well vol.= 0.8 L

InitTubing Dpth(ft): 10.29 Final Tube Dept(ft): 10.89 Purge Start Time: 0819 Purge Stop time: 0845 Total Volume Purged 5.3 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
0834	3.3	3.3	200	10.39	5.98	25.54	605.1	0.20	1.15	4.0	
0839	1.0	4.3	200	10.39	5.98	25.54	602.6	0.19	0.98	-4.3	Clear
0845	1.0	5.3	200	10.39	5.97	25.52	597.4	0.18	0.89	-8.8	Slight yellowish color
											Slight 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): K. Brakefield Sampler(s) Signatures: K Brakefield

Sampling Method: PP Tube Material: PP/S Sampling Started Tube Dpth(ft): 10.89 Time: 0848 Sampling completed Tube Dpth(ft): 10.89 Time: 0929

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: DS0044 H2SO4: DS0032

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
3Q23-R4T5-A	PE	(4000) 500	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-R4T5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
3Q23-R4T5-C	PE	250	H2SO4/Chill	0.5 m	1.6	Pace: NO2/NO3 and TOC
3Q23-R4T5-D	PE	1000	HNO3	2 mL	1.6	Pace: Gross Alpha
3Q23-R4T5-E	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.6	Kanapaha: Metals
3Q23-R4T5-M	PE	250	HNO3	0.5 mL	1.6	Pace: Metals (preserved in field)
3Q23-R4T5-N	PE	2000	HNO3	4 mL	1.3	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: 78°F Winds: WSW @ 1.2 mph Cloud Cover: partly cloudy Precip: Ø
Remarks:

Codes: PP/S + Polypropylene+Silcone 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 7-93
Quarter:	3Q23	Date:	7/12/23		Well Type:	I

Purging Data

Diameter(in)	2	Total well depth(ft)	14.13	Depth to water(ft)	2.54	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: 0943

Well Vol = (14.13 - 2.54) X 0.6 = 6.95 L 1/4 well vol.= 1.75 L

InitTubing Dpth(ft): 3.04 Final Tube Dept(ft): 3.09 Purge Start Time: 0948 Purge Stop time: 1026 Total Volume Purged 10.6

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
1014	7.0	7.0	310	2.59	6.86	27.52	363.4	0.07	1.04	-63.7	
1020	1.8	8.8	310	2.59	6.78	27.48	360.6	0.08	1.17	-70.5	Clear
1026	1.8	10.6	310	2.59	6.69	27.40	363.9	0.08	0.94	-68.6	Yellowish color
											Slight sulfur odor

Decon Depth Mtr - rinse with analyte free water

♣ FDEP SOP Section 2212.3

Sampling Data

§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): 3.09 Time: 1029 Sampling completed Tube Dpth(ft): 3.09 Time: 1056

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: DS0044 H2SO4: DS0032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-R6T4-A	PE	(4000) 500	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-R6T4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
3Q23-R6T4-C	PE	250	H2SO4/Chill	0.5 m	<3	Pace: NO2/NO3 and TOC
3Q23-R6T4-D	PE	1000	HNO3	2 mL	<3	Pace: Gross Alpha
3Q23-R6T4-E	PE	250 (500)	HNO3	0.5 (1.0 m)	<6	Kanapaha: Metals
3Q23-R6T4-M	PE	250	HNO3	0.5 mL	<3	Pace: Metals (preserved in field)
3Q23-R6T4-N	PE	2000	HNO3	4 mL	<3	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: 89°F Winds: WNW @ 2.7 mph Cloud Cover: partly cloudy Precip: 0

Remarks:

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

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: 3Q 23 Date: 7-13-23 Well Type: U

Purging Data

Diameter(in)	2	Total well depth(ft)	13.92	Depth to water(ft)	2.87	Well capacity(L/ft)	0.6

Distance from TOC to top of screen 3.92 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: 0926

Well Vol = (13.92 - 2.87) X 0.6 = 6.63 **L** 1/4 well vol.= 1.66

InitTubing Dpth(ft): 9.0	Final Tube Depl(ft): 9.0	Purge Start Time: 0929	Purge Stop time: 0958	Total Volume Purged 8.85L

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§		
0951	6.65	6.65	315	4.18	6.57	28.46	795.3	0.61	0.85	127.7	clear
0954	1.1	7.75	315	4.18	6.54	28.46	788.9	0.61	0.82	114.7	colorless
0957	1.1	8.85	215	4.18	6.51	28.46	787.3	0.55	1.17	97.9	slight sulfur 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): JCD Sampler(s) Signatures: JCD

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1000	Sampling completed Tube Dpth(ft): 9.0 Time: 1012
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50044 H2SO4: D50032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-SIS-1-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-SIS-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A ~~———~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A ~~———~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-SIS-1-G	PE	250 /(500)	HNO3	0.5/(1.0 mL)	1.3	Kanapaha: Metals
3Q23-SIS-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved in Field)
3Q23-SIS-1-N	PE	2000	HNO3	4 mL	1.0	Pace: Radium 226+228

Tubing Depth is PP ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 84°F Winds: W 7 mph Cloud Cover: partly cloudy Precip: 0

Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	SIS-2	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'53.4672"	-82°23'31.5096"	183.3	2017
Quarter:	3Q23	Date:	7-13-23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	14.22	Depth to water(ft)	5.0	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: 1035

Well Vol = (14.22 - 5.0) X 0.6 = 5.532 L 1/4 well vol.= 1.383

InitTubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1057	Purge Stop time: 1106	Total Volume Purged 7.15 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§		
1059	5.55	5.55	260	5.34	7.11	28.75	599.6	3.06	1.88	201.6	clear
1102	0.8	6.35	260	5.34	7.11	28.73	602.8	3.01	1.74	201.7	Colorless
1105	0.8	7.15	260	5.34	7.11	28.73	605.1	2.86	1.98	202.5	Odorless

♠ 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): JCA	Sampler(s) Signatures: JCA

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1108	Sampling completed Tube Dpth(ft): 9.0 Time: 1122
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: 230044 H2SO4: 250072

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-SIS-2-K	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-SIS-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	PE	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A	PE	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-SIS-2-G	PE	250/(500)	HNO3	0.5/(1.0 mL)	1.3	Kanapaha: Metals
3Q23-SIS-2-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved in Field)
3Q23-SIS-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. ✓Well found locked on arrival ✓Well left locked on departure
Temperature: 86°F Winds: W 6 mph Cloud Cover: partly cloudy Precip: 0
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	SIS-3	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'51.8472"	-82°23'35.5632"	183.11	2017

Quarter: 3Q23 Date: 7-13-23 Well Type: D

Purging Data

Diameter(in)	2	Total well depth(ft)	13.38	Depth to water(ft)	2.68	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: 1208

Well Vol = (13.38 - 2.68) X 0.6 = 6.42 **L** 1/4 well vol.= 1.605

InitTubing Dpth(ft): 9.0	Final Tube Depl(ft): 9.0	Purge Start Time: 1216	Purge Stop time: 1309	Total Volume Purged 7.05L

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§		
1302	6.45	6.45	110	3.29	6.75	29.49	323.6	1.04	1.70	196.6	clear yellow color odorless
1305	0.35	6.80 ~~6.70~~	110	3.29	6.75	29.52	325.1	1.04	1.65	196.5	
1308	0.35	~~7.05~~	110	3.29	6.75	29.55	327.1	1.03	1.54	196.4	
	7-13-23 JCD	7.15									

♣ 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): JCD Sampler(s) Signatures: JCD

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1310	Sampling completed Tube Dpth(ft): 9.0 Time: 1347

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: D50044 H2SO4: D50032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-SIS-3-F	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-SIS-3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A ~~———~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A ~~———~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-SIS-3-G	PE	250/(500)	HNO3	0.5/(1.0) mL	1.3	Kanapaha: Metals
3Q23-SIS-3-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (preserved in field)
3Q23-SIS-3-M	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: 89°F Winds: WSW 9 mph Cloud Cover: partly cloudy Precip: 0
Remarks:

Codes: PP/S = Polypropylene+Silcone tubing PP; Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log

WELL ID:	SIS-4	Location:	Latitude: 29°45'54.144"	Longitude: -82°23'38.4108"	MSL @ TOC 183.87	Date In Service 2017
Quarter:	3Q23	Date:	7-14-23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	13.7	Depth to water(ft)	4.15	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: 0925

Well Vol = (13.7 - 4.15) X 0.6 = 5.73 L 1/4 well vol.= 1.4325

InitTubing Dpth(ft): 9.0 Final Tube Dept(ft): 9.0 Purge Start Time: 0928 Purge Stop time: 0958 Total Volume Purged 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
0951	5.75	5.75	240	5.04	6.60	28.38	532.6	0.40	2.63	136.2	Clear Yellow
~~0954~~	~~7.20~~	~~0~~ JCD 7-14-23	240	5.04	6.60	28.25	~~535.6~~	0.28	1.67	134.3	~~odorless~~ JCD 7-14-23
0954	0.75	6.50				JCD 7-14-23	530.6				odorless
0957	0.75	7.25	240	5.04	6.60	28.35	521.2	0.30	1.60	136.1	

JCD 7-14-23

♣ 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): JCD	Sampler(s) Signatures: JCD

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1000	Sampling completed Tube Dpth(ft): 9.0 Time: 1015
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50044 H2SO4: D50032

Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-SIS4-F	PE	400/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-SIS4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A ~~———~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A ~~———~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-SIS4-G	PE	250/(500)	HNO3	0.5/(1.0 mL)	1.3	Kanapaha: Metals
3Q23-SIS4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved in Field)
3Q23-SIS4-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: 85°F Winds: S at 6 MPH Cloud Cover: Scant Precip: 0
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	LF-1	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'59.0544"	-82°23'51.8244"	185.76	2017
Quarter:	3Q23	Date:	7/13/23		Well Type:	U

Purging Data

Diameter(in)	2	Total well depth(ft)	14.88	Depth to water(ft)	5.15	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: 0750

Well Vol = (14.88 - 5.15) X 0.6 = 5.84 **L** 1/4 well vol.= 1.5 L

InitTubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0756	Purge Stop time: 0841	Total Volume Purged 12.1 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§		
0814	8.0	8.0	390	5.41	6.51	26.59	498.2	2.52	1.67	250.3	> 20% DO
0822	1.3	9.3	390	5.41	6.48	26.59	486.6	2.37	0.79	233.9	
0825	1.3	10.6	390	5.41	6.44	26.55	478.1	2.21	0.96	215.2	
0828	1.3	11.9	390	5.41	6.42	26.55	471.0	2.01	0.77	185.8	
0831	1.3	13.2	390	5.41	6.39	26.51	462.0	1.80	1.00	182.1	Clear → < 20% DO
0834	1.3	14.5	390	5.41	6.36	26.51	453.4	1.58	0.65	171.8	No color
0837	1.3	15.8	390	5.41	6.33	26.51	443.0	1.37	0.88	160.1	slight sulfur odor
0840	1.3	17.1	390	5.41	6.29	26.50	432.3	1.21	0.69	148.3	

♣ 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): JCD / FSB	Sampler(s) Signatures: JCD

Sampling Method: PP	Tube Material: PP/S,	Sampling Started Tube Dpth(ft): 9.0 Time: 0842	Sampling completed Tube Dpth(ft): 9.0 Time: 0853
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50044 H2SO4: D50032

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
3Q23-LF-1-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF-1-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-LF-1-6	PE	250 (500)	HNO3	0.5 (1.0 mL)	1.3	Kanapaha: Metals
3Q23-LF-1-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved in field)
3Q23-LF-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: 80°F Winds: W 4 mph Cloud Cover: partly cloudy Precip: 0
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	LF-2	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'50.46"	-82°23'47.40"	182.33	2019

Quarter: 3Q23 Date: 7-14-23 Well Type: D

Purging Data

Diameter(in)	2	Total well depth(ft)	15.36	Depth to water(ft)	4.16	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: 1056

Well Vol = (15.36 - 4.16) X 0.6 = 6.72 **L** 1/4 well vol.= 1.68

InitTubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 1105	Purge Stop time: 1139	Total Volume Purged 8.1SL

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§		
1131	6.75	6.75	260	4.57	5.04	28.26	361.1	0.31	2.87	55.0	Clear
1134	0.70	~~7.45~~ 7.45	260	4.57	5.04	28.26	370.4	0.31	2.36	53.0	Colorless
1137	0.70	8.15	260	4.57	5.04	28.23	375.4	0.29	2.95	51.0	Strong Sulfur odor
											orange floaters

Decon Depth Mtr - rinse with analyte free water

♠ FDEP SOP Section 2212.3

Sampling Data

§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): JCD Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1139	Sampling completed Tube Dpth(ft): 9.0 Time: 1156

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: D50044 H2SO4: D50032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-LF-2-F	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF-2-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~N/A~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
~~N/A~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-LF-2-G	PE	250/(500)	HNO3	0.5 (1.0 mL	1.0	Kanapaha: Metals
3Q23-LF-2-L	PE	250	HNO3	0.5 mL	1.0	Pace: Metals (Preserved in Field)
3Q23-LF-2-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: 88°F Winds: SW 7mph Cloud Cover: Mostly Cloudy Preclp: 0

Remarks:

Codes: PP/S + Polypropylene+Silcone 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 183.7	Date In Service 2019
Quarter:	3Q23	Date:	7-17-23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	16.29	Depth to water(ft)	4.29	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: 0740

Well Vol = (16.29 - 4.29) X 0.6 = 7.2 L — 1/4 well vol.= 1.8

InitTubing Dpth(ft): 8.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0748	Purge Stop time: 0816	Total Volume Purged 8.8L

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§		
0803	7.2	7.2	380	4.66	5.88	28.48	522.8	0.13	10.70	-92.5	yellow
0806	0.8	8.0	380	4.66	5.88	28.48	525.3	0.13	8.15	-95.2	strong Sulfur
0809	0.8	8.8	390	4.66	5.87	28.48	522.7	0.12	7.43	-100.1	clear

♣ 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): JCP	Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0811	Sampling completed Tube Dpth(ft): 9.0 Time: 0822
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50644 H2SO4: D50032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-LF3-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF3-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A ~~———~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A ~~———~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		Pace: Gross Alpha
3Q23-LF3-G	PE	250 (500)	HNO3	0.5 (1.0 mL	<3	Kanapaha: Metals
3Q23-LF3-L	PE	250	HNO3	0.5 mL	<3	Pace: Metals (Preserved in Field)
3Q23-LF3-N	PE	2000	HNO3	4 mL	<3	Pace: Radium 226+228

Tubing Depth is 4ft below depth to water for every instance. ✓ Well found locked on arrival ✓ Well left locked on departure
Temperature: 79°F Winds: SW 6 mph Cloud Cover: partly cloudy Precip: 0
Remarks:

Codes: PP/S + Polypropylene+Silcone 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:	3Q23	Date:	7/17/23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	16.06	Depth to water(ft)	4.25	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: 0841

Well Vol = (16.06 - 4.25) X 0.6 = 7.086 L 1/4 well vol.= 1.7715

InitTubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0851	Purge Stop time: 0920	Total Volume Purged 8.9 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
0913	7.1	7.1	330	4.63	4.99	28.83	191.3	0.50	8.27	78.8	clear
0916	0.9	8.0	330	4.63	4.99	28.81	192.2	0.50	6.51	76.9	odorless
0919	0.9	8.9	330	4.62	4.99	28.81	193.0	0.50	5.42	73.5	colorless

♣ 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): DCA	Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 0921	Sampling completed Tube Dpth(ft): 9.0 Time: 0933

Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50044	H2SO4: D50032

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-LF4-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF4-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A ~~———~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A ~~———~~	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-LF4-G	PE	250 (500)	HNO3	0.5 (1.0 mL	1.3	Kanapaha: Metals
3Q23-LF4-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved In Field)
3Q23-LF4-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: 83°F Winds: SW 6 mph Cloud Cover: Partly cloudy Precip: 0
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	LF-5 3Q23	Location:	Latitude: 29°45'53.70"	Longitude: -82°23'59.83"	MSL @ TOC 184.33	Date In Service 2020
Quarter:	7-17-23	Date:	7-17-23		Well Type:	D

Purging Data

Diameter(in)	2	Total well depth(ft)	14.52	Depth to water(ft)	4.48	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: 0848

Well Vol = (14.52 - 4.48) X 0.6 = 6.024 1106 L 1/4 well vol.= 1.506

InitTubing Dpth(ft): 9.0	Final Tube Dept(ft): 9.0	Purge Start Time: 0953	Purge Stop time: 1107	Total Volume Purged 23.0L

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
1014	6.1	6.1	300	4.69	6.15	28.58	422.0	0.44	7.09	52.8	clear
1017	1.1	7.2	300	4.69	6.06	28.55	478.1	0.46	7.53	46.7	colorless
1020	1.1	8.3	300	4.69	6.02	28.55	507.5	0.47	7.24	44.0	colorless
1023	1.1	9.4	300	4.69	5.95	28.55	542.1	0.48	6.78	41.9	
1026	2.5	11.9	300	4.69	5.85	28.49	635.8	0.46	6.92	40.6	
1034	1.0	12.9	300	4.69	5.83	28.47	660.4	0.45	5.11	40.5	
1037	1.0	13.9	300	4.69	5.80	28.47	686.2	0.44	4.27	38.7	
1059	7.2	21.1	300	4.69	5.68	28.33	810.9	0.56	3.73	36.0	
1102	1.0	22.0	300	4.69	5.68	28.40	817.8	0.57	2.90	35.6	
1105	1.0	23.0	300	4.68	5.67	28.40	822.3	0.61	2.75	35.1	

♣ 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): JCP	Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1107	Sampling completed Tube Dpth(ft): 9.0 Time: 1120

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: D50014 H2SO4 D50052

Sample Container Specification			Sample Preservation			
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	Intended Analysis or method
3Q23-LF5-F	PE	4000 (500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF5-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
~~N/A~~	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A 100 11223	PE	1000	HNO3	2 mL		Pace: Gross Alpha
3Q23-LF5-G	PE	250 (500)	HNO3	0.5 (1.0 mL)	1,3	Kanapaha: Metals
3Q23-LF5-L	PE	250	HNO3	0.5 mL	1,3	Pace: Metals (Preserved in Field)
3Q23-LF5-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: 84°F Winds: 5 to 9 mph Cloud Cover: Storming Precip: raining
Remarks:

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

DGS Groundwater Sampling Log

WELL ID:	LF-6	Location:	Latitude:	Longitude:	MSL @ TOC	Date In Service
			29°45'56.71"	-82°23'59.75"	184.59	2020

Quarter: 3Q23 Date: 7-17-23 Well Type: D

Purging Data

Diameter(in)	2	Total well depth(ft)	14.52	Depth to water(ft)	4.88	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: 1236

Well Vol = (14.52 - 4.88) X 0.6 = 9.64 L 1/4 well vol.= 2.41

InitTubing Dpth(ft): 9.0	Final Tube Depl(ft): 9.0	Purge Start Time: 1240	Purge Stop time: 1317	Total Volume Purged 12.25

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
1310	9.65	9.65	390	5.28	6.47	28.55	311.6	0.13	2.93	221.0	Yellow
1313	1.3	10.95	390	5.28	6.47	28.55	309.2	0.13	2.57	220.1	clear
1316	1.3	12.25	390	5.28	6.46	28.55	306.2	0.13	2.45	221.4	colorless

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): JCD Sampler(s) Signatures: JCD

Sampling Method: PP	Tube Material: PP/S	Sampling Started Tube Dpth(ft): 9.0 Time: 1318	Sampling completed Tube Dpth(ft): 9.0 Time: 1328

Field Decon: NO Field Filtered: NO Duplicate: YES (NO) Acid ID# HNO3: D50014 H2SO4: D50052

Sample Container Specification			Sample Preservation			Intended Analysis or method
Sample ID:	Material	Vol(mL)	Preservative	Vol Added	Final pH	
3Q23-LF6-F	PE	4000/(500)	Chill <6 C	n/a	n/a	Kanapaha: Physical
3Q23-LF6-K	PE	250	Chill <6 C	n/a	n/a	Pace: Anions
N/A	~~PE~~	~~250~~	~~H2SO4/Chill~~	~~0.5 m~~		~~Pace: NO2/NO3 and TOC~~
N/A	~~PE~~	~~1000~~	~~HNO3~~	~~2 mL~~		~~Pace: Gross Alpha~~
3Q23-LF6-G	PE	250/(500)	HNO3	0.5/(1.0 mL	1.3	Kanapaha: Metals
3Q23-LF6-L	PE	250	HNO3	0.5 mL	1.3	Pace: Metals (Preserved in Field)
3Q23-LF6-N	PE	2000	HNO3	4 mL	1.3	Pace: Radium 226+228

Tubing Depth is 4/1 ft below depth to water for every instance. ___ Well found locked on arrival ___ Well left locked on departure
Temperature: 82°F Winds: WSW 6 mph Cloud Cover: Partly Cloudy Precip: 0
Remarks:

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

DGS Groundwater Sampling Log

WELL ID: **EBLANK1**

Quarter: 3Q23 Date: 7-14-23

Purging Data

Purging Method: PP **Equipment Volume = 750 mL**

Well Collected At: SIS-4 Purge Start Time: ~~1026~~ N/A JCD 7-14-23

Time of Depth Meter Decon: 1025 Purge Stop time: 1031 N/A JCD 7-14-23

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): JCD Sampler(s) Signatures: JCD

Sampling Method: PP | Tube Material: PP/S | Sampling Started Time: 1026 | Sampling completed Time: 1031

Field Decon: NO | Field Filtered: NO | Duplicate: YES (NO) | Acid ID# HNO3: D50044 H2SO4: D50032

Sample Container Specification			Sample Preservation			
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	Intended Analysis or method
3Q23-EBLK1-B	PE	250	Chill <6 C	n/a	n/a	Pace Anions
3Q23-EBLK1-C	PE	250	H2SO4+Chill	0.5 mL	<3	Pace NO2/NO3 and TOC
3Q23-EBLK1-D	PE	1000	HNO3	2 mL	<3	Pace Gross Alpha
3Q23-EBLK1-E	PE	250 (500)	HNO3	0.5 (1) mL	<3	Kanapaha Metals
3Q23-EBLK1-J	PE	250	HNO3	0.5 mL	<3	Pace Metals
~~N/A~~	~~PE~~	~~2000~~	~~HNO3~~	~~4 mL~~		~~Pace Radium 226+228~~

✓ Well found locked on arrival ✓ Well left locked on departure

Temperature: 86°F Winds: SW 6 mph Cloud Cover: partly cloudy Precip: 0

Remarks:

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

DGS Groundwater Sampling Log

WELL ID: EBLANK2

Quarter: 3Q23 Date: 7-17-23

Purging Data

Purging Method: PP **Equipment Volume = 750 mL**

Well Collected At: CF-6 Purge Start Time: N/A

Time of Depth Meter Decon: 1335 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): CD Sampler(s) Signatures:

Sampling Method: PP	Tube Material: PP/S	Sampling Started Time: 1340	Sampling completed Time: 1345
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: DS0044 H2SO4: DS0032

Sample Container Specification			Sample Preservation			
ID:	Material	Vol mL	Preservative	Vol Adde	final pH	Intended Analysis or method
3Q23-EBLK2-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
3Q23-EBLK2-G	PE	250 / 500	HNO3	0.5 / 1 mL	1.0	Kanapaha Metals
3Q23-EBLK2-L	PE	250	HNO3	0.5 mL	1.0	Pace Metals (Preserved in Field)
3Q23-EBLK2-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

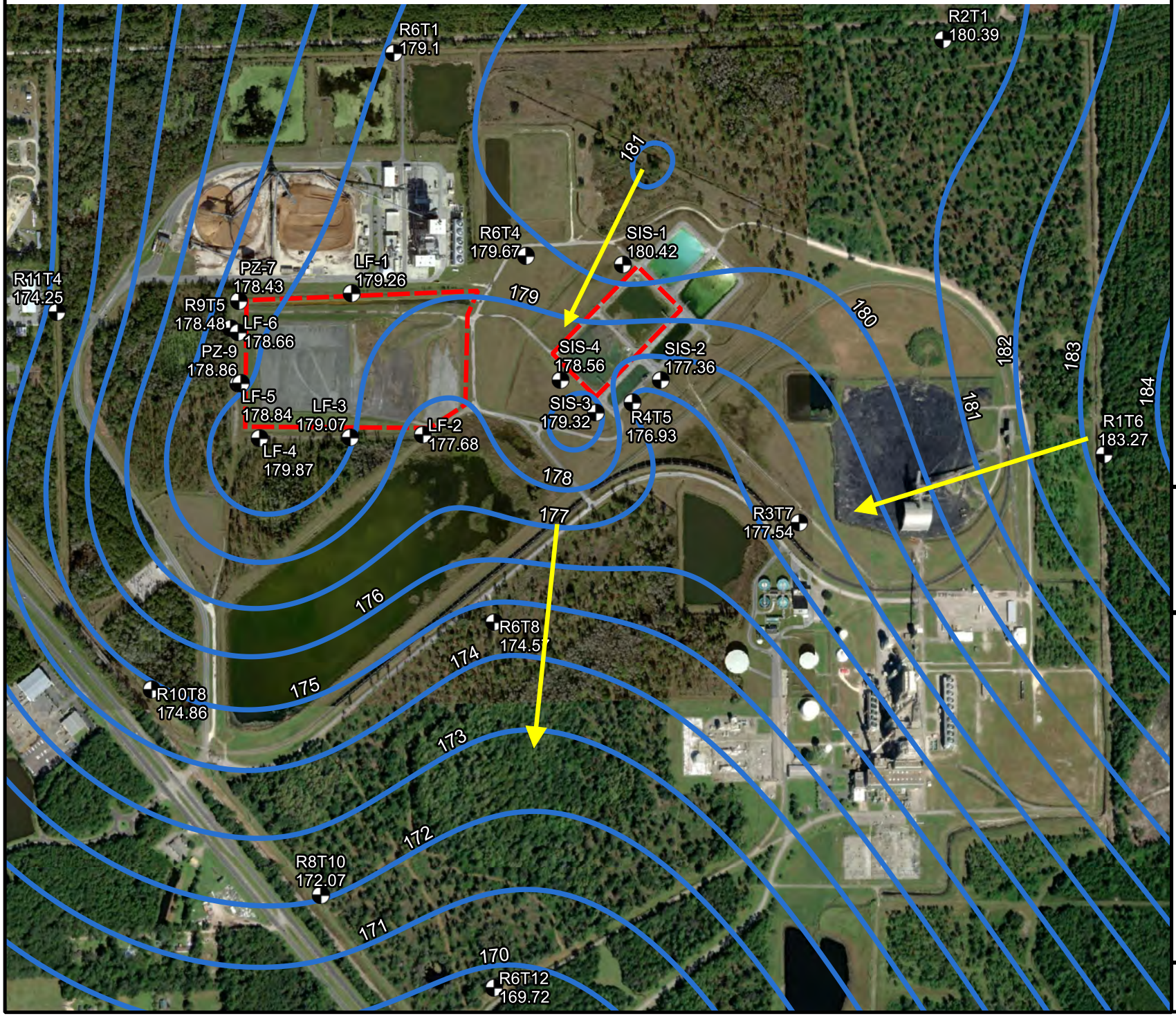
Temperature: 93°F Winds: SW 7mph Cloud Cover: partly cloudy Precip: 0

Remarks:

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

Attachment C
Potentiometric Contours and Site-Wide Groundwater Flow Direction, January 2023 and July 2023

CCR Units January 2023 Annual Groundwater Montioring and Corrective Action Report



N

W E

S

0 760 1,520 Feet

Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction January 7, 2023

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 SURFICIAL AQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS

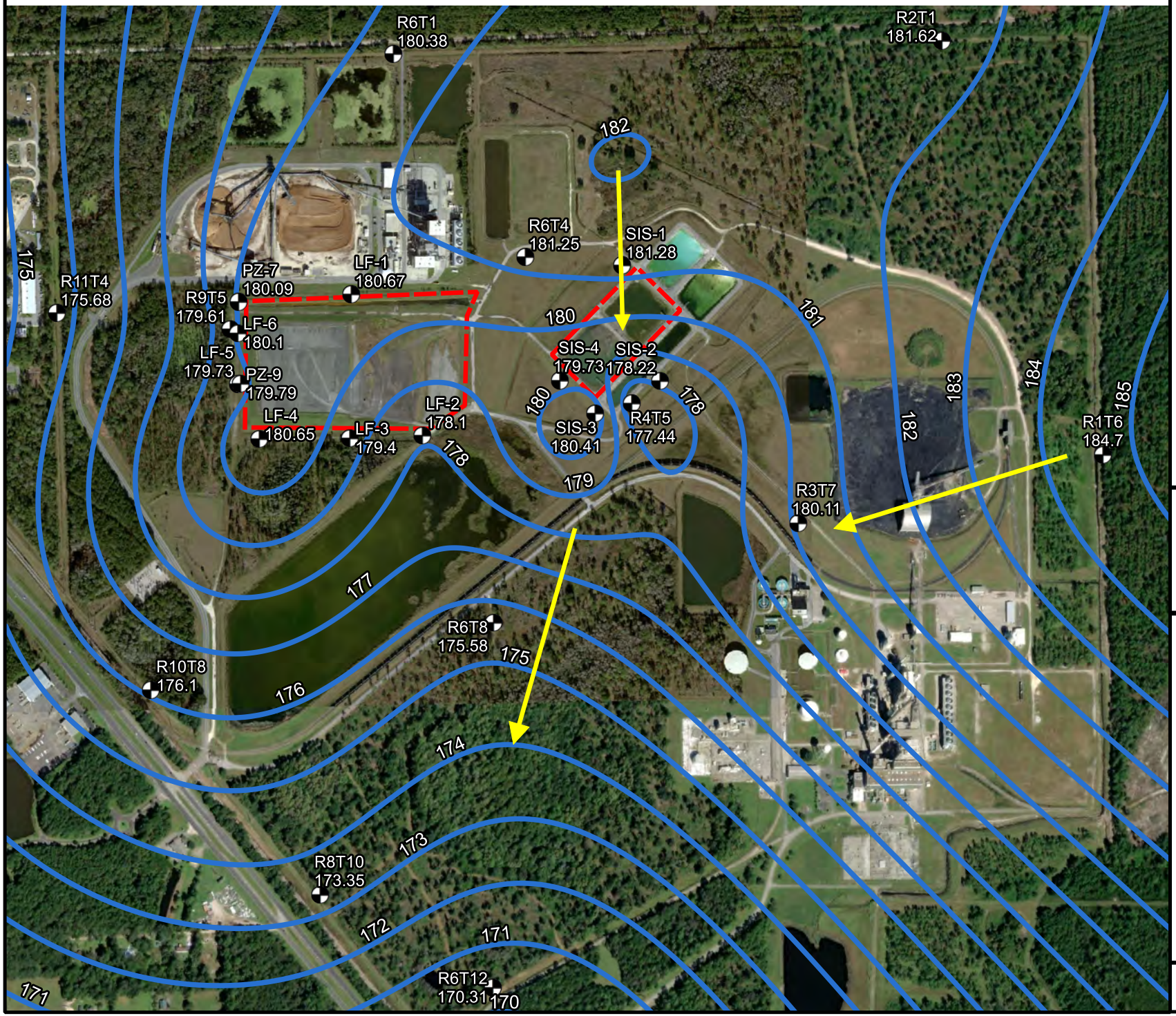
2. 2014 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM

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 2023 Annual Groundwater Montioring and Corrective Action Report



N

W E

S

0 760 1,520 Feet

Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction July 9, 2023

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 SURFICIAL AQUIFER. 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. 2014 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

Deerhaven Generating Station Water Elevations

Date: 01/07/2023

Well	Time	MSL @TOC	Depth to Water	Time Depth Mtr Cleaned	Locked Arrival	Locked Depart.
R1T6	11:42	188.95	5.68	11:41	✓	✓
R2T1	11:49	185.19	4.80	11:48	✓	✓
R3T7	13:43	182.55	5.01	13:42	✓	✓
R4T5	12:04	187.46	10.53	12:03	✓	✓
R6T1	13:05	185.28	6.18	13:04	✓	✓
R6T4	12:15	183.60	3.93	12:14	✓	✓
R6T8	13:38	177.97	3.40	13:37	✓	✓
R6T12	13:31	173.38	3.66	13:30	✓	✓
R8T10	13:24	177.40	5.33	13:23	✓	✓
R9T5	12:40	184.64	6.16	12:39	✓	✓
R10T8	13:16	181.42	6.56	13:15	✓	✓
R11T4	13:11	178.76	4.51	13:10	✓	✓
SIS1	11:56	185.11	4.69	11:55	✓	✓
SIS2	12:01	183.30	5.94	12:00	✓	✓
SIS3	12:08	183.11	3.79	12:07	✓	✓
SIS4	12:11	183.87	5.31	12:10	✓	✓
LF1	12:47	185.76	6.50	12:46	✓	✓
LF2	12:23	182.33	4.65	12:22	✓	✓
LF3	12:26	183.70	4.63	12:25	✓	✓
LF4	12:28	184.83	4.96	12:27	✓	✓
LF5	12:32	184.33	5.49	12:31	✓	✓
LF6	12:39	184.59	5.93	12:38	✓	✓
LF7	12:43	185.74	7.31	12:42	✓	✓
PZ8	12:54	213.13	34.05	12:53	No Lock	No Lock
PZ9	12:34	184.79	5.93	12:33	No Lock	No Lock
PZ10	12:57	203.79	25.91	12:56	No Lock	No Lock

Deerhaven Generating Station Water Elevations

Date: 07/09/2023 (3Q23)

Well	Time	MSL @TOC	Depth to Water	Water Elevation
R1T6	8:38	188.95	4.25	184.70
R2T1	8:45	185.19	3.57	181.62
R3T7	10:37	182.55	2.44	180.11
R4T5	9:08	187.46	10.02	177.44
R6T1	10:03	185.28	4.90	180.38
R6T4	9:18	183.60	2.35	181.25
R6T8	10:33	177.97	2.39	175.58
R6T12	10:28	173.38	3.07	170.31
R8T10	10:23	177.40	4.05	173.35
R9T5	9:32	184.64	5.03	179.61
R10T8	10:17	181.42	5.32	176.10
R11T4	10:11	178.76	3.08	175.68
SIS1	9:21	185.11	3.83	181.28
SIS2	9:04	183.30	5.08	178.22
SIS3	9:12	183.11	2.70	180.41
SIS4	9:15	183.87	4.14	179.73
LF1	9:26	185.76	5.09	180.67
LF2	9:47	182.33	4.23	178.10
LF3	9:44	183.70	4.30	179.40
LF4	9:42	184.83	4.18	180.65
LF5	9:37	184.33	4.60	179.73
LF6	9:35	184.59	4.49	180.10
LF7	9:29	185.74	5.65	180.09
PZ8	9:52	213.13	33.99	179.14
PZ9	9:39	184.79	5.00	179.79
PZ10	9:56	203.79	25.01	178.78

Checked by: Kent Brakefield