2023 CCR Annual Groundwater Monitoring and Corrective Action Report

Chesterfield Power Station, Upper Ash Pond

Prepared for:

Virginia Electric and Power Company
(d/b/a) Dominion Energy Virginia
120 Tredegar Street
Richmond, Virginia 23219

Prepared by:

WSP USA Inc.
1100 Boulders Parkway, Suite 503
Richmond, Virginia, USA 23225
+1 804 358-7900

31406066.007

January 31, 2024

EXECUTIVE SUMMARY

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared by WSP USA Inc. (WSP) on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Upper Ash Pond (Unit) at the Chesterfield Power Station (Station). Historically, Dominion Energy operated the Unit to manage Coal Combustion Residuals (CCR) generated by the Station.

The Unit is considered an existing CCR surface impoundment under Title 40 Code of Federal Regulations (CFR) Part 257.50 *et seq.* [*Disposal of Coal Combustion Residuals from Electric Utilities* (Final Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended, also known as the CCR Rule)], as well as the Commonwealth of Virginia adoption of 40 CFR Part 257 Subpart D by reference Title 9 Virginia Administrative Code Agency 20, Chapter 81, section 800 *et seq.* (9VAC20-81-800). Pursuant to the CCR Rule, the Dominion Energy is required to complete an Annual Groundwater Monitoring and Corrective Action Report (Report) by January 31st annually.

The Report documents the status of the CCR groundwater monitoring program for the Unit, summarizes key actions completed, describes issues encountered, actions taken to resolve identified concerns, and key activities for the upcoming year. More specifically, this Report describes results of the CCR Rule Assessment Monitoring Program (AMP) activities performed to comply with CCR Rule requirements, and the progression of future sampling activities pursuant to the CCR Rule and the Unit's *Groundwater Monitoring Plan* (GMP).

In accordance with 40 CFR §257.90(e)(6), the following information is being provided as an overview of the current status of groundwater monitoring and corrective action for the Unit:

i. At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.

- At the start of 2023, the Unit was being monitored under the AMP in accordance with §257.95.

ii. At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.

- At the end of 2023, the Unit was being monitored under the AMP in accordance with §257.95.

iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to §257.94(e).

(A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase

- There were statistically significant increases over background identified for the following Appendix III constituents at the following wells during the second 2022 semi-annual event and/or first 2023 semi-annual event:

- Boron – wells MW-1, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-16D, MW-17S, and MW-B32
- Calcium – wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32
- Chloride – wells MW-1, MW-13, MW-15, MW-16, MW-17S, and MW-B32
- Fluoride – wells MW-3, MW-3D, MW-8R, MW-16, and MW-17S
- pH – wells MW-1D, MW-3, MW-3D, and MW-17S
- Sulfate – wells MW-1, MW-1D, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-7, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-16D, MW-17S, and MW-B32
- Total dissolved solids – wells MW-1, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32.

(B) Provide the date when the assessment program was initiated for the CCR unit

- The AMP was initiated at the Unit on May 7, 2018.

iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to §257.95(g)

(A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase

- There were statistically significant increases over the federal groundwater protection standard identified for the following Appendix IV constituents at the following wells during the second semi-annual 2022 and first semi-annual 2023 events:
  - Arsenic – wells MW-13
  - Cobalt – wells MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6D, MW-10, MW-12, MW-13, MW-15, MW-16, and MW-17S
  - Lithium – wells MW-4, MW-5, MW-6, MW-6D, MW-13, and MW-16
  - Radium 226 and 228 (combined) – wells MW-1, MW-1D, MW-2, and MW-17S
- There were statistically significant increases over the Virginia CCR groundwater protection standards identified for the following additional Appendix IV constituents at the following wells during the second semi-annual 2022 and first semi-annual 2023 events:
  - Arsenic – well MW-13
  - Cobalt – wells MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6D, MW-10, MW-12, MW-13, MW-15, MW-16, and MW-17S
  - Lithium – wells MW-4, MW-6, MW-6D, MW-13, and MW-16
  - Molybdenum – MW-3, MW-3D, MW-16, and MW-17S
  - Radium 226 and 228 (combined) – wells MW-1, MW-1D, MW-2, and MW-17S

(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit

- An assessment of corrective measures (ACM) was initiated for the Unit on January 30, 2019.

(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit

- A public meeting has not yet been held for the ACM.

(D) Provide the date when the assessment of corrective measures was completed for the CCR unit

- The ACM for the Unit was completed on May 17, 2019.

v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of the remedy selection

- A remedy was not selected during the current annual reporting period.

vi. Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period

- Remedial activities were not initiated or are not ongoing during this current annual reporting period.

Monitoring results from the second semi-annual 2023 event, conducted in October 2023, were received on December 8, 2023. These results are being evaluated against applicable background concentrations and groundwater protection standards in accordance with the applicable CCR Rule timeframe and the results will be placed in the operating record in accordance with the CCR Rule timeframe requirements.

Based on the results from the 2023 AMP activities, Dominion Energy intends to continue with semi-annual groundwater monitoring activities in 2024 that are consistent with the provisions in the CCR Rule §257.95 and the Unit's GMP.

Table of Contents

EXECUTIVE SUMMARY ..... **ES-i**
1.0 INTRODUCTION **1**
1.1 Site Location 1
1.2 Site History 1
1.3 Key Actions 1
1.4 Monitoring Program Concerns 3
2.0 SITE INFORMATION **4**
2.1 Monitoring Well Network 4
2.1.1 Monitoring Wells Installation and Decommissioning Activities 4
2.2 Geology and Hydrogeology 4
2.2.1 Geology 5
2.2.2 Hydrogeology 5
2.2.3 Potentiometric Surface Evaluation 6
3.0 FIELD ACTIVITIES **8**
4.0 LABORATORY ANALYTICAL RESULTS **9**
4.1 1st Semi-Annual 2023 Assessment Monitoring Program Event 9
4.1.1 1st Semi-Annual 2023 Verification Sampling Event 9
4.2 2nd Semi-Annual 2023 Assessment Monitoring Program Event 9
5.0 DATA QUALITY VALIDATION **10**
5.1 1st Semi-Annual 2023 Compliance Event Findings 10
5.1.1 1st Semi-Annual 2023 Verification Event Findings 10
5.2 2nd Semi-Annual 2023 Compliance Event Findings 10
6.0 STATISTICAL EVALUATION **11**
6.1 Site-Specific Background Evaluations 11
6.1.1 2022 2nd Semi-Annual Assessment Monitoring Program Event 11
6.1.2 2023 1st Semi-Annual Assessment Monitoring Program Event 12
6.1.3 2023 2nd Semi-Annual Assessment Monitoring Program Event 13

6.2 Groundwater Protection Standard Evaluation....13
6.2.1 2022 2nd Semi-Annual Assessment Monitoring Program Data Evaluation....13
6.2.2 2023 1st Semi-Annual Assessment Monitoring Program Data Evaluation....16
6.2.3 2023 2nd Semi-Annual Assessment Monitoring Program Data Evaluation....18
7.0 CONCLUSIONS....19
7.1 Findings....19
7.2 Planned Activities....19
8.0 REFERENCES....20
9.0 SIGNATURE PAGE....22

LIST OF TABLES

Table 1 Summary of Historical CCR Static Water Level Data
Table 2 Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data – Columbia Aquifer
Table 3 Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data – Potomac Aquifer
Table 4 Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data – Columbia Aquifer
Table 5 Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data – Potomac Aquifer
Table 6 Summary of 2023 1st Semi-Annual Verification Sampling
Table 7 Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data – Columbia Aquifer
Table 8 Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data – Potomac Aquifer

LIST OF DRAWINGS

Drawing 1 Site Location Map
Drawing 2 Groundwater Potentiometric Surface Map – Columbia Aquifer – April 10, 2023
Drawing 3 Groundwater Potentiometric Surface Map – Potomac Aquifer – April 10, 2023
Drawing 4 Groundwater Potentiometric Surface Map – Columbia Aquifer – October 9, 2023
Drawing 5 Groundwater Potentiometric Surface Map – Potomac Aquifer – October 9, 2023

LIST OF APPENDICES

Appendix A Field Data Sheets

A.1 First Semi-Annual Groundwater Monitoring Event (April 2023)

A.2 First Semi-Annual Groundwater Monitoring Verification Event (August 2023)

A.3 Second Semi-Annual Groundwater Monitoring Event (October 2023)

Appendix B Laboratory Analytical Results and Chain-of-Custody Forms

B.1 First Semi-Annual Groundwater Monitoring Event (April 2023)

B.2 First Semi-Annual Groundwater Monitoring Verification Event (August 2023)

B.3 Second Semi-Annual Groundwater Monitoring Event (October 2023)

Appendix C Data Validation Forms

C.1 First Semi-Annual Groundwater Monitoring Event Data Validation Form (April 2023)

C.2 First Semi-Annual Groundwater Monitoring Verification Event Data Validation Form (August 2023)

C.3 Second Semi-Annual Groundwater Monitoring Event Data Validation Form (October 2023)

1.0 INTRODUCTION

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared by WSP USA Inc. (WSP) on behalf of Virginia Electric and Power Company (VEPCO) d/b/a Dominion Energy Virginia (Dominion Energy) for the Upper Ash Pond (Unit) at the Chesterfield Power Station (Station/Facility) located in Chesterfield County, Virginia. The Unit is considered an existing Coal Combustion Residuals (CCR) surface impoundment and is subject to the groundwater monitoring requirements in Title 40 Code of Federal Regulations (CFR) Part 257.50 *et seq.* [Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended, as well as the Commonwealth of Virginia adoption of 40 CFR Part 257 Subpart D by reference Title 9 Virginia Administrative Code Agency 20, Chapter 81, section 800 *et seq.* (9VAC20-81-800; VWMB, 2019). Pursuant to the CCR Rule, no later than January 31st annually, Dominion Energy must prepare an annual groundwater monitoring and corrective action report for the CCR Unit documenting the status of groundwater monitoring and corrective action programs for the preceding year.

WSP has prepared this Report for the Unit on behalf of Dominion Energy in accordance with CCR Rule §257.90(e). This Report presents relevant data evaluations from the second semi-annual 2022 event that were completed in 2023, provides the monitoring data and required data evaluations for the first semi-annual 2023 CCR monitoring compliance event performed in April 2023, and provides the monitoring data for the second semi-annual 2023 CCR monitoring compliance event performed in October 2023.

1.1 Site Location

The Station is owned and operated by Dominion Energy and is located at 500 Coxendale Road, Chester, Virginia (Chesterfield County) east of I-95 on the south side of the James River (Dutch Gap Cutoff Channel) near its confluence with the Old Channel of the James River. A site location map is presented as Drawing 1.

1.2 Site History

The Unit was formerly operated by Lone Star Industries, Inc. as a sand and gravel pit. The Unit property was originally leased by VEPCO for construction and operation of the Unit *circa* 1983. Subsequently, Dominion Energy acquired the Unit property and annexed it to the Station. Dominion Energy operated the Unit as a surface impoundment under Virginia Pollutant Discharge Elimination System (VPDES) Permit VA0004146. Groundwater monitoring under the CCR Rule requirements was initiated in 2016.

1.3 Key Actions

Key actions for this Unit are as follows:

- Initiated the collection of eight baseline/background samples in October 2016 and completed the background monitoring activities in July 2017 pursuant to the CCR Rule [257.94(b)];

- Conducted the initial Detection Monitoring Program (DMP) compliance sampling event in September 2017, and completed the sample analyses on February 27, 2018 (date for revised data package, which was initially received on September 26, 2017), pursuant to the CCR Rule [257.94];

- Placed a copy of the Unit's *Groundwater Monitoring Plan* (GMP; Golder, 2017) documenting the design information for the monitoring wells pursuant to the CCR Rule [257.91(e)(1)] in the Station's operating record on October 17, 2017, pursuant to the CCR Rule [257.105(h)(2)]. The Station's GMP was updated (Revision 2) on April 8, 2021, following installation of replacement monitoring wells for the Lower Ash Pond that were installed in advance of pending pond closure activities.

- Certified the Unit's groundwater monitoring system pursuant to the CCR Rule [257.91(e)(1)] and posted the Certification in the Station's operating record on October 17, 2017, pursuant to the CCR Rule [257.105(h)(3)];

- Certified the selection of a statistical method pursuant to the CCR Rule [257.93(f)(6)] and posted the Certification in the Station's operating record on October 17, 2017, pursuant to the CCR Rule [257.105(h)(4)];

- Placed a notification of a Statistically Significant Increase (SSI) over the Unit's background concentrations under the DMP in the Station's operating record on February 6, 2018;

- Conducted the initial Assessment Monitoring Program (AMP) compliance sampling event on March 28-29, 2018, and completed the sample analyses on May 7, 2018, pursuant to the CCR Rule [257.95(b)];

- Established groundwater protection standards (GWPS) for detected constituents in Appendix IV of §257 on November 1, 2018, pursuant to the CCR Rule [257.95(d)(2)];

- Placed an Assessment of Corrective Measures (ACM) Initiation Notification in the Unit's operating record on March 1, 2019, within the required timeframe pursuant to 40 CFR §257.96;

- Completed the ACM on May 17, 2019. Based on the results of the ACM, adjacent landowner notification was made and was placed in the operating record;

- Conducted the first semi-annual 2023 AMP compliance sampling event on April 10-14, 2023, and completed the sample analyses on July 21, 2023, pursuant to the CCR Rule [257.95(d)(1)]. A verification event was conducted on August 3, 2023, and the sample analysis was completed on August 15, 2023;

- Notification of 2022 second semi-annual GWPS exceedances was placed in the Unit's operating record on April 19, 2023;
- Placed a copy of the Semi-Annual Remedy Selection Progress Report No. 8 in the Unit's operating record on April 24, 2023
- Placed a copy of the Semi-Annual Remedy Selection Progress Report No. 9 in the Unit's operating record on October 20, 2023
- Notification of 2023 first semi-annual GWPS exceedances was placed in the Unit's operating record on November 17, 2023; and
- Conducted the second semi-annual AMP compliance sampling event on October 9-12, 2023, and completed the sample analyses on December 8, 2023 (revised January 30, 2024), pursuant to the CCR Rule [257.95(d)(1)].

1.4 Monitoring Program Concerns

There were no monitoring program concerns identified during the semi-annual AMP compliance events conducted in 2023.

2.0 SITE INFORMATION

The Station property is bordered by the James River to the north; to the east by Henricus Park Road, across which is Aiken Swamp (Dutch Gap Conservation Area) and Chesterfield County's Henricus Park; undeveloped tidal flats and river bottom associated with Farrar Gut to the south; and the James River Industrial Center to the west. The Station is accessed from Coxendale Road and has a CSX rail line and a barge port on the James River.

Land use surrounding the Station is comprised of a mix of rural residential (across the James River and Farrar Gut), public space (Henricus Park and Aiken Swamp), and commercial/industrial to the west (James River Industrial Center).

As part of the Station operations, Dominion Energy historically operated the pond under VPDES Permit VA0004146 and additionally as an existing CCR surface impoundment upon promulgation of the CCR rule in 2015. The Unit was subject to the groundwater monitoring provisions of the CCR Rule by October 17, 2017. On March 20, 2019, Virginia Governor Northam signed SB1355/HB2786 (Virginia Code section 10.1-1402.03); the resultant law required Dominion Energy to close the Unit by removal of all CCR. Dominion Energy is currently removing CCR material for both beneficial reuse and disposal to support closure by removal.

2.1 Monitoring Well Network

The Station's GMP (Golder, 2017) details the design of the Unit's CCR Rule groundwater monitoring network. As presented in the GMP, the monitoring network is comprised of four (4) upgradient/background wells (MW-29U, MW-30U, MW-35S, and MW-35D) and 23 downgradient monitoring wells (MW-1, MW-1D, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-7, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-16D, MW-17S, MW-B31, MW-B32) designed to monitor the uppermost aquifer beneath the Unit. The groundwater monitoring well locations relative to the Unit are shown on Drawings 2 through 5. In addition, the Station maintains several observation wells that are used for periodic water level monitoring.

2.1.1 Monitoring Wells Installation and Decommissioning Activities

No groundwater monitoring wells associated with the Unit's CCR Rule compliance network were installed or decommissioned in calendar year 2023.

2.2 Geology and Hydrogeology

A summary of the geology and the hydrogeology for the Unit is presented in the following sections.

2.2.1 Geology

The Station is located approximately 2.5 miles east of the Fall Line in the western part of the Virginia Coastal Plain physiographic province (VDMR, 1993). The surrounding area is characterized by gently rolling topography incised by dendritically patterned mature stream channels flowing in a general easterly direction towards the James River. The Coastal Plain physiographic province is composed of an extensive complex of interlayered, unconsolidated to semi-consolidated strata deposited between the Quaternary and Cretaceous Periods. The thickness of the strata is variable within the Coastal Plain, varying from a "feather's edge" where the sediments overlap the Piedmont physiographic province rocks and saprolitic sediment, to massively bedded formations near the continental shelf. Structurally, the Station and Unit are located within the easterly dipping Coastal Plain physiographic province, with the northern limits of the inactive, steep-angled, reverse Dutch Gap Fault (reactivated normal fault with a west footwall) mapped immediately southeast of the Unit.

The uppermost sediments at the Station and surrounding areas are mapped as Quaternary alluvium associated with the present-day James River. The Quaternary sediments are underlain by Tertiary and Cretaceous sedimentary deposits of variable thickness. The Cretaceous sediments overlie the Petersburg Granite (mapped to the west) and other undifferentiated basement rock that varies in texture from a relatively uniform aphanitic to phaneritic textured rock to a heterogeneous gneissic texture. The Petersburg Granite is variously described as a Paleozoic crystalline basement rock composed primarily of quartz, sodic plagioclase, potassium feldspar, biotite, and hornblende, with minor amounts of ilmenite, magnetite, pyrite, zircon, apatite, titanite, muscovite, and fluorite (VDMR, 1993). Locally (site investigations in 2016), the lower basement bedrock is overlain by consolidated sediments (mudstone, arkose, and conglomerate) that are believed to date to the Triassic. The basement bedrock surface near the Station is interpreted to be inclined to the east.

2.2.2 Hydrogeology

The uppermost aquifer beneath the Unit is unconfined and is found in the surficially exposed Quaternary and upper Tertiary sediments, hereafter referred to as the Columbia Aquifer (the water table aquifer system, which includes unconfined sections of the lower Yorktown Formation). The uppermost aquifer extends vertically beneath the Unit into the Potomac Aquifer underneath due to the absence of the Potomac Formation confining unit locally. The groundwater flow direction in the uppermost aquifer beneath the Unit is radial in nature. The groundwater flow direction in the Potomac Aquifer is towards the south, southwest.

The Potomac Aquifer overlies the fractured bedrock aquifer associated with the Petersburg Granite and other undifferentiated basement bedrock. The Triassic sediments are considered to be part of the bedrock aquifer system, with groundwater expected to flow vertically and laterally across geologic boundaries based on the hydraulic properties of the aquifer matrix. Locally, the highly weathered fine-grained sediments of the Triassic deposits serve as confining layers for water-bearing zones within the deposit.

2.2.3 Potentiometric Surface Evaluation

Historical static water level data for the Unit are summarized in Table 1. Consistent with the requirements of the CCR Rule, the rate and direction of groundwater flow within the uppermost aquifer beneath the Unit was determined after each sampling event. The Groundwater Potentiometric Surface Maps presented as Drawings 2 and 4 were prepared using static water level data from the upper portion of the uppermost aquifer (Columbia aquifer) obtained during the first and second semi-annual AMP Events on April 10 and October 9, 2023, respectively. Drawings 3 and 5 were prepared with static water level data obtained from the lower portion (Potomac Aquifer) during the first and second semi-annual AMP Events on April 10 and October 9, 2023, respectively. The interpreted data indicates that the groundwater flow direction remains consistent with previous monitoring events. Therefore, based on network review and regulatory requirements, WSP believes that the groundwater monitoring wells continue to perform to the design specifications in the Groundwater Monitoring System Certification for the UAP (Golder, 2017) consistent with 40CFR §257.91(2) of the CCR Rule.

Using the groundwater contours presented as an overlay on Drawings 2 through 5, the average hydraulic gradient and groundwater flow rate for the uppermost aquifer in the study area was calculated for each monitoring event using the following equations.

The average hydraulic gradient along the ideal flow line beneath the Unit was calculated using the following equation:

$$i = {}^{h_L}/_{L}$$

Where:
i = hydraulic gradient (unitless)
h_L = head loss (elevation difference in feet)
L = length (horizontal distance in feet)

The groundwater flow rate was calculated using the following formula:

$$V = {}^{ki}/_{\theta}$$

Where:
V= Groundwater Velocity (cm/s)
k = hydraulic conductivity (cm/s)
i = hydraulic gradient (unitless)
θ = assumed porosity (unitless)

Using the estimated average effective porosity value of 20% for the sediments comprising the uppermost aquifer (Sanders, 1998), the estimated average hydraulic conductivity value for the uppermost aquifer (Columbia), and the calculated gradient, the average rate of groundwater flow (*Vgw*) in the uppermost aquifer beneath the Unit was calculated as follows.

Groundwater Flow	Hydraulic Conductivity (k, cm/s)	Contour lines (feet amsl)	Flow Length (feet)	Calculated Gradient (i)	Average Gradient (i)	Assumed Porosity (Ø)	Estimated Groundwater Velocity	
							(cm/s)	(feet/year)
1st Semi-Annual Assessment Monitoring Program Event (April 2023)								
Unit -Columbia Vgw	1.39E-03	10-2.5	178	4.2E-02	3.7E-02	0.20	2.6E-4	269
		10-2.5	238	3.2E-02				
Unit – Potomac Vgw	2.78E-03	6.0-1.0	2,051	2.4E-3	2.4E-3	0.20	3.3E-05	34
2nd Semi-Annual Assessment Monitoring Program Event (October 2023)								
Unit -Columbia Vgw	1.39E-03	10-2.5	250	3.0E-2	3.0E-2	0.20	2.1E-4	217
		10-2.5	255	2.9E-2				
Unit – Potomac Vgw	2.78E-03	5.0-1.0	2,237	1.8E-3	1.8E-3	0.20	2.5E-5	26

As presented, the estimated average groundwater flow rate in the uppermost Columbia Aquifer beneath the Unit is variable depending on the gradient evaluation location and ranges from approximately 217 to 269 feet per year for 2023. The estimated average groundwater flow rate in the lower Potomac Aquifer beneath the Unit is variable depending on the gradient evaluation location and ranges from approximately 26 to 34 feet per year for 2023. The calculated flow rates for the events conducted in 2023 are consistent with previous calculations for the Unit.

3.0 FIELD ACTIVITIES

Pursuant to the requirements in 40 CFR 257.95(d)(1) two (2) semi-annual AMP monitoring events were completed in 2023 for the Unit for the constituents and parameters listed Appendix III of the CCR Rule and constituents and parameters listed in Appendix IV of the CCR rule. Summaries of the AMP sampling events are presented below.

Monitoring Event	Sample Dates	Final Laboratory Package Receipt Date
1st Semi-Annual 2023 Assessment Monitoring Program Event	April 10-14, 2023	July 21, 2023
1st Semi-Annual 2023 Verification Event	August 3, 2023	August 15, 2023
2nd Semi-Annual 2023 Assessment Monitoring Program Event	October 9-13, 2023	December 8, 2023 (revised January 30, 2024)

During each of the AMP sampling events, the compliance monitoring wells were sampled in accordance with the procedures presented in the Station's GMP. Field logs for the 2023 semi-annual and verification sampling events are presented in Appendix A.

Samples collected during the first and second semi-annual and first semi-annual verification 2023 AMP sampling events were submitted on ice in secured coolers under chain-of-custody control to Pace Analytical, LLC (Pace) in Mechanicsville, Virginia. The Pace samples were then shipped to the Asheville, North Carolina; Ormond Beach, Florida (first semi-annual event only); and Mount Juliet, Tennessee locations of Pace for analysis. Pace of Asheville, North Carolina (#460222), Ormond Beach, Florida (#430165), and Mount Juliet, Tennessee (#460132) are all Virginia Environmental Laboratory Accreditation Program (VELAP)-accredited laboratories for the required analyses.

4.0 LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from the AMP sampling events conducted in 2023 are summarized in the following sections.

4.1 1st Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the first semi-annual AMP 2023 event were analyzed for the presence and concentration of the constituent and parameters listed in Appendix III and Appendix IV of the CCR Rule. The field logs, laboratory certificates of analysis and chain-of-custody forms, and data validation reports for the sampling event are presented in Appendices A.1, B.1, and C.1. A summary of the first semi-annual CCR sampling data for the Unit is presented in Tables 4 and 5.

4.1.1 1st Semi-Annual 2023 Verification Sampling Event

The groundwater samples collected during the first semi-annual 2023 verification event were analyzed for beryllium. The field logs, laboratory certificates of analysis and chain-of-custody forms, and data validation reports for the sampling event are presented in Appendices A.2, B.2, and C.2. A summary of the first semi-annual CCR verification sampling data for the Unit is presented in Table 6.

4.2 2nd Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual AMP 2023 event were analyzed for the presence and concentration of the constituent and parameters listed in Appendix III and Appendix IV of the CCR Rule. The field forms, laboratory certificates of analysis and chain-of-custody forms, and data validation reports for the sampling event are presented in Appendix A.3, B.3, and C.3. A summary of the CCR sampling data for the Unit is presented in Tables 7 and 8.

5.0 DATA QUALITY VALIDATION

The Quality Assurance (QA) and quality control (QC) data provided by the laboratory for the 2023 semi-annual sampling events were reviewed by Environmental Standards Inc. (ESI) to ensure that the analytical results met the project's data quality objectives as outlined in the Station's GMP. The review process was performed in general accordance with procedures outlined in the *National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017* (EPA, 2017). Details from the data quality reviews are discussed in the following sections.

5.1 1st Semi-Annual 2023 Compliance Event Findings

ESI performed a QA review of the QC data provided by the laboratories for the first semi-annual 2023 compliance monitoring event samples collected April 10-14, 2023. Field QA/QC samples for this event included a field blank collected and two (2) field duplicate samples collected from compliance wells MW-15 and MW-17S. Based on review of the laboratory analytical results and associated laboratory-provided QC data, the results reported by the laboratory generally meet the overall data quality objectives for the project and are suitable for use with this project with the noted qualifications presented in Tables 4 and 5. A copy of the data validation record is presented in Appendix C.1.

5.1.1 1st Semi-Annual 2023 Verification Event Findings

ESI performed a QA review of the QC data provided by the laboratories for the verification samples collected August 3, 2023. Field QA/QC samples for this event included a field blank and one (1) field duplicate sample collected from compliance well MW-13. Based on review of the laboratory analytical results and associated laboratory-provided QC data, the results reported by the laboratory generally meet the overall data quality objectives for the project and are suitable for use. A copy of the data validation record is presented in Appendix C.2.

5.2 2nd Semi-Annual 2023 Compliance Event Findings

ESI performed a QA review of the QC data provided by the laboratories for the second semi-annual 2023 compliance monitoring event samples collected October 9-12, 2023. Field QA/QC samples for this event included a field blank and two (2) field duplicate samples collected from compliance wells MW-6 and MW-15. Based on review of the laboratory analytical results and associated laboratory-provided QC data, the results reported by the laboratory generally meet the overall data quality objectives for the project and are suitable for use with this project with the noted qualifications presented in Tables 7 and 8. A copy of the data validation record is presented in Appendix C.3.

6.0 STATISTICAL EVALUATION

This section presents a statistical evaluation for the semi-annual data according to the requirements of the CCR Rule. Two types of statistical analyses have been conducted as follows:

- Data from the second semi-annual 2022 compliance event and the first semi-annual 2023 compliance event have been evaluated with respect to site-specific background values; this analysis identifies statistically significant increases (SSIs) in downgradient wells over background (inter-well analysis).
- Data from the second semi-annual 2022 compliance event and the first semi-annual 2023 compliance event have been evaluated with respect to GWPS.

6.1 Site-Specific Background Evaluations

Compliance data from each semi-annual event were evaluated against site-specific background values as follows.

6.1.1 2022 2nd Semi-Annual Assessment Monitoring Program Event

Pursuant to §257.95 of the CCR Rule, WSP evaluated Appendix III constituent detections against site-specific background values that were established for the DMP as presented in Tables 2 and 3. Based on that evaluation, the following Appendix III SSIs were identified for the second semi-annual 2022 event (see Tables 2 and 3):

- Boron (MW-1, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-16D, MW-17S, and MW-B32)
- Calcium (MW-1, MW-3, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32)
- Chloride (MW-1, MW-15, MW-16, MW-17S, and MW-B32)
- Fluoride (MW-3, MW-3D, MW-16, and MW-17S)
- pH (MW-1D, MW-3, MW-3D)
- Sulfate (MW-1, MW-1D, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-7, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-16D, MW-17S, and MW-B32)
- Total Dissolved Solids [TDS] (MW-1, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32)

For Appendix IV constituents, the following SSIs were identified consistent with §257.93(h) of the CCR Rule. WSP evaluated the AMP constituent detections against site-specific background values that were established for the evaluation of AMP constituents (see Tables 2 and 3).

- Arsenic (MW-13)
- Cadmium (MW-13)
- Cobalt (MW-1D, MW-2, MW-4, MW-5, MW-6D, MW-10, MW-12, MW-13, MW-15, MW-16, and MW-17S)

- Fluoride (MW-3, MW-3D, MW-16, and MW-17S)
- Lithium (MW-4, MW-6, MW-6D, MW-13, and MW-16)
- Molybdenum (MW-3, MW-3D, and MW-16)
- Radium 226 and 228 combined (MW-1, MW-1D, MW-2, MW-4, MW-5, MW-6D, MW-15, MW-16, MW-17S, and MW-B32)
- Selenium (MW-8R, MW-11, MW-12, MW-13, MW-16, MW-17S, and MW-B32)

As the Unit is already monitoring groundwater under the AMP, no additional actions beyond reporting these background exceedances in this annual report are required.

6.1.2 2023 1st Semi-Annual Assessment Monitoring Program Event

Pursuant to §257.95 of the CCR Rule, WSP evaluated Appendix III constituent detections against site-specific background values that were established for the DMP as presented in Tables 4 and 5. Based on that evaluation, the following Appendix III SSIs were identified for the first semi-annual 2023 event (see Tables 4 and 5):

- Boron (MW-1, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-16D, MW-17S, and MW-B32)
- Calcium (MW-1, MW-3, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32)
- Chloride (MW-1, MW-13, MW-15, MW-16, MW-17S, and MW-B32)
- Fluoride (MW-3, MW-3D, MW-8R, MW-16 and MW-17S)
- pH (MW-1D, MW-3D, MW-17S)
- Sulfate (MW-1, MW-1D, MW-2, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-7, MW-8R, MW-9R, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-16D, MW-17S, and MW-B32)
- TDS (MW-1, MW-3D, MW-4, MW-5, MW-6, MW-6D, MW-8R, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17S, and MW-B32)

For Appendix IV constituents, the following SSIs were identified consistent with §257.93(h) of the CCR Rule. WSP evaluated the AMP constituent detections against site-specific background values that were established for the evaluation of AMP constituents (see Tables 4 and 5).

- Arsenic (MW-13)
- Barium (MW-29U [Upgradient])
- Beryllium (MW-1D)
- Chromium (MW-13)
- Cobalt (MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6D, MW-10, MW-12, MW-13, MW-15, MW-16, and MW-17S)

- Fluoride (MW-3, MW-3D, MW-8R, MW-16, and MW-17S)
- Lithium (MW-4, MW-6, MW-6D, MW-13 and MW-16)
- Molybdenum (MW-3, MW-3D, MW-16, and MW-17S)
- Radium 226 and 228 combined (MW-29U [upgradient], MW-1, MW-1D, MW-2, MW-11, MW-15, MW-16, MW-17S, and MW-B32)
- Selenium (MW-13)

A suspect background SSI was identified for beryllium at MW-13; however, the result was not confirmed with verification sampling (see Table 6). As the Unit is already monitoring groundwater under the AMP, no additional actions beyond reporting these background exceedances in this annual report are required.

6.1.3 2023 2nd Semi-Annual Assessment Monitoring Program Event

The results from the second semi-annual 2023 sampling event are being evaluated in accordance with the timeframes in the CCR Rule.

6.2 Groundwater Protection Standard Evaluation

Consistent with the provisions of 40 CFR §257.95(d)(2) for the CCR Rule, GWPS for the detected Appendix IV constituents listed in 40 CFR 257 were established on November 1, 2018. Because the Commonwealth of Virginia adopted by reference the October 4, 2016, version of 40 CFR Part 257 into 9VAC20-81-800 of the VSWMR (VWMB, 2019), amendments to 40 CFR Part 257 Subpart D after October 4, 2016, have not been incorporated into 9VAC20-81-800 and health-based GWPS are not applicable to the VSWMR under 9VAC20-81-800. Therefore, two sets of groundwater protection standards were established (federal CCR Rule GWPS and Virginia CCR GWPS). The GWPS establishment documentation was placed in the Unit's operating record on September 19, 2018.

6.2.1 2022 2nd Semi-Annual Assessment Monitoring Program Data Evaluation

As presented in Tables 2 and 3, and summarized below, the following constituents were detected at concentrations above the federal GWPS during the second semi-annual 2022 AMP sampling event based on a value-to-standard comparison.

Columbia Aquifer			
Constituent	**Federal CCR GWPS**	**Assessment Monitoring Well**	**2SA 2022 Concentration**
Arsenic (ug/L)	19.8	MW-13	126
Cobalt (ug/L)	7.4	MW-2	13.5
		MW-5	25.4
		MW-12	15.1
		MW-13	358
		MW-15	55.8
		MW-16	26.4
		MW-17S	10.9
Lithium (ug/L)	40	MW-5	44.5
		MW-13	136
		MW-16	137
Radium 226 and 228 (combined) (pCi/L)	5	MW-1	9.24
		MW-2	8.05 J+
		MW-17S	6.16

Notes: ug/L = Microgram per liter
pCi/L = picoCurie per liter
J+ = Quantitation is approximate and may be biased high

Potomac Aquifer			
Constituent	**Federal CCR GWPS**	**Assessment Monitoring Well**	**2SA 2022 Concentration**
Cobalt (ug/l)	6.9	MW-1D	15.6
		MW-4	85.0
		MW-6D	153
		MW-10	11.4
Lithium (ug/l)	40	MW-4	68.3
		MW-6	159
		MW-6D	216
Radium 226 and 228 (combined) (pCi/L)	5	MW-1D	7.98

Notes: ug/L = Microgram per liter
pCi/L = picoCurie per liter

Under 9VAC20-81-800, the following constituents were detected at a concentration above the Virginia CCR Rule GWPS.

Columbia Aquifer			
Constituent	**Virginia CCR GWPS**	**Assessment Monitoring Well**	**2SA 2022 Concentration**
Arsenic (ug/L)	19.8	MW-13	126
Cobalt (ug/L)	7.4	MW-2	13.5
		MW-5	25.4
		MW-12	15.1
		MW-13	358
		MW-15	55.8
		MW-16	26.4
		MW-17S	10.9
Lithium (ug/L)	QL (50)	MW-13	136
		MW-16	137
Molybdenum (ug/L)	QL (10)	MW-3	64.4
		MW-16	11.4
Radium 226 and 228 (combined) (pCi/L)	5	MW-1	9.24
		MW-2	8.05 J+
		MW-17S	6.16

Notes: ug/L = Microgram(s) per liter
pCi/L = picoCurie per liter
QL= Quantitation Limit
J+ = The result is an estimated quantity; the result may be biased high

Potomac Aquifer			
Constituent	**Virginia CCR GWPS**	**Assessment Monitoring Well**	**2SA 2022 Concentration**
Cobalt (ug/L)	6.9	MW-1D	15.6
		MW-4	85.0
		MW-6D	153
		MW-10	11.4
Lithium (ug/L)	QL (50)	MW-4	68.3
		MW-6	159
		MW-6D	216
Molybdenum (ug/L)	QL (10)	MW-3D	15.3
Radium 226 and 228 (combined) (pCi/L)	5	MW-1D	7.98

Notes: ug/L = Microgram(s) per liter
pCi/L = picoCurie per liter
QL= Quantitation Limit

A record of the exceedances was placed in the Unit's operating record on April 19, 2023. An ACM was completed for the Unit in May 2019 and includes the constituents noted above.

6.2.2 2023 1st Semi-Annual Assessment Monitoring Program Data Evaluation

As presented in Tables 4 and 5 and summarized below, the following constituents were detected at concentrations above the federal GWPS during the first semi-annual 2023 AMP sampling event based on a value-to-standard comparison.

Columbia Aquifer			
Constituent	**Federal CCR GWPS**	**Assessment Monitoring Well**	**1SA 2023 Concentration**
Arsenic (ug/L)	19.8	MW-13	125
Beryllium (ug/L)	4	MW-13 (Verification)	28.7 (<0.070)
Cobalt (ug/L)	7.4	MW-2	13.1
		MW-3	7.7
		MW-5	26.1
		MW-12	14.3
		MW-13	380
		MW-15	40.8
		MW-16	26.7
		MW-17S	12.6
Lithium (ug/L)	40	MW-5	47.4
		MW-13	143
		MW-16	149
Radium 226 and 228 (combined) (pCi/L)	5	MW-1	6.00 J-
		MW-2	8.72 J

Notes: ug/L = Microgram(s) per liter
pCi/L = picoCurie per liter
J = Result is estimated
J- = Result may be biased low

Potomac Aquifer			
Constituent	**Federal CCR GWPS**	**Assessment Monitoring Well**	**1SA 2023 Concentration**
Cobalt (ug/l)	6.9	MW-1D	15.8
		MW-4	78.6
		MW-6D	70.4
		MW-10	11.0
Lithium (ug/l)	40	MW-4	72.2
		MW-6	154
		MW-6D	145
Radium 226 and 228 (combined) (pCi/L)	5	MW-1D	9.07 J

Notes: ug/L = Microgram per liter
pCi/L = picoCurie per liter
J = Result is estimated

Under 9VAC20-81-800, the following constituents were detected at a concentration above the Virginia CCR Rule GWPS.

Columbia Aquifer			
Constituent	**Virginia CCR GWPS**	**Assessment Monitoring Well**	**1SA 2023 Concentration**
Arsenic (ug/L)	19.8	MW-13	125
Beryllium (ug/L)	4	MW-13 (Verification)	28.7 (<0.70)
Cobalt (ug/L)	7.4	MW-2	13.1
		MW-3	7.7
		MW-5	26.1
		MW-12	14.3
		MW-13	380
		MW-15	40.8
		MW-16	26.7
		MW-17S	12.6
Lithium (ug/L)	QL (50)	MW-13	143
		MW-16	149
Molybdenum (ug/L)	QL (10)	MW-3	39.9
		MW-16	11.5
		MW-17S	13.8
Radium 226 and 228 (combined) (pCi/L)	5	MW-1	6.00 J-
		MW-2	8.72 J

Notes: ug/L = Microgram(s) per liter
pCi/L = picoCurie per liter
QL= Quantitation Limit
J = Result is estimated
J- = Result may be biased low

Potomac Aquifer			
Constituent	**Virginia CCR GWPS**	**Assessment Monitoring Well**	**1SA 2023 Concentration**
Cobalt (ug/L)	6.9	MW-1D	15.8
		MW-4	78.6
		MW-6D	70.4
		MW-10	11.0
Lithium (ug/L)	QL (50)	MW-4	72.2
		MW-6	154
		MW-6D	145
Molybdenum (ug/L)	QL (10)	MW-3D	13.4
Radium 226 and 228 (combined) (pCi/L)	5	MW-1D	9.07 J

Notes: ug/L = Microgram(s) per liter
pCi/L = picoCurie per liter
QL= Quantitation Limit
J = Result is estimated

The potential GWPS exceedance for beryllium at MW-13 was not confirmed with verification sampling as presented on Table 6. A record of the exceedance was placed in the Unit's operating record on November 17, 2023. An ACM for the Unit was completed in May 2019 and includes the constituents noted above.

6.2.3 2023 2nd Semi-Annual Assessment Monitoring Program Data Evaluation

The data for the 2023 second semi-annual AMP sampling event were received on December 8, 2023 (package complete) and are being evaluated against the established GWPS for the Unit in accordance with the CCR Rule timeframes. The results from those evaluations will be presented in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

7.0 CONCLUSIONS

7.1 Findings

The first semi-annual 2023 AMP compliance sampling event was completed on April 10-14, 2023, with sample analyses completed on July 21, 2023. The second semi-annual 2023 AMP compliance sampling event was completed on October 9-13, 2023, with sample analyses complete on December 8, 2023. These groundwater sampling and analysis activities were conducted in accordance with the requirements of the Unit's GMP for the CCR network.

Evaluation of the monitoring results from the second 2022 semi-annual event and the first 2023 semi-annual event identified federal GWPS exceedances for arsenic, cobalt, lithium, and radium 226 and 228 (combined). Additionally, Virginia GWPS exceedances were identified for arsenic, cobalt, lead, lithium, molybdenum, and radium 226 and 228 (combined). Monitoring results from the 2023 second semi-annual are being evaluated against site-specific GWPS in accordance with the applicable CCR Rule timeframe. Dominion Energy previously completed an ACM for the documented GWPS exceedances for the Unit in May 2019.

7.2 Planned Activities

Based on the results from the 2023 AMP activities, Dominion Energy intends to continue with semi-annual groundwater monitoring activities in 2024 that are consistent with the provisions in the CCR Rule §257.95 and the Unit's 2017 GMP. Also, pending selection of the final remedy and consistent with the provisions of the CCR Rule §257.95(a) and 257.105(h)(12), Dominion Energy will continue to prepare semi-annual progress reports for remedy design and selection. In accordance with the provisions in Virginia State Bill 1355 (Virginia Code Section 10.1-1402.03), Dominion Energy will continue with the planned closure by removal of CCR material in the Unit.

8.0 REFERENCES

EPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency (EPA). *40 CFR Parts 257and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81. April.

EPA. 2016. Federal Register. Volume 81. No. 151. Friday August 5, 2016. Part II. EPA. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-OLEM–2016–0274; FRL–9949–44–OLEM]. August.

EPA. 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. January.

EPA. 2018. Federal Register. Volume 83. No. 146. Monday July 30, 2018. Part II. EPA. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-OLEM–2017–0286; FRL–9981–18–OLEM]. RIN–2050–AG88. July.

EPA. 2020a. Federal Register. Volume 85. No. 168. Friday, August 28, 2020. EPA. *40 CFR Part 257. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; A Holistic Approach to Closure Part A: Deadline To Initiate Closure.* [EPA-HQ-OLEM–2019-0172 and EPA-HQ-OLEM–2018-0524; FRL–10013–20–OLEM]. RIN–2050–AH10. August.

EPA. 2020b. Federal Register. Volume 85. No. 219. Thursday, November 12, 2020. EPA. *40 CFR Part 257. Hazardous and Solid Waste Management System; Disposal of CCR; A Holistic Approach to Closure Part B: Alternate Demonstration for Unlined Surface Impoundments.* [EPA-HQ-OLEM–2019-0173; FRL-10015-88-OLEM]. RIN–2050–AH11. November.

Golder (Golder Associates Inc.). 2017. *Groundwater Monitoring Plan, Chesterfield Power Station, 500 Coxendale Road, Chester, Virginia 23836, Upper and Lower Ash Ponds, Solid Waste Permit No. 619.* October.

Golder. 2021. *Groundwater Monitoring Plan, Chesterfield Power Station, 500 Coxendale Road, Chester, Virginia 23836, Upper and Lower Ash Ponds, Solid Waste Permit No. 619.* Revision 2. April.

Golder. 2022. *Groundwater Monitoring Plan, Chesterfield Power Station, 500 Coxendale Road, Chester, Virginia 23836, Upper and Lower Ash Ponds, Solid Waste Permit No. 619.* Revision 3. August.

Sanders, Laura L. 1998. *A Manual of Field Hydrogeology*, 1st Ed., Prentice Hall, 1998. p. 196.

Virginia Division of Mineral Resources (VDMR). 1993. Geologic Map of Virginia. Virginia Division of Mineral Resources, scale 1:500,000.

Virginia Waste Management Board (VWMB). 2019. Virginia Solid Waste Management Regulations – (9VAC20-81 *et seq*.). February 4.

9.0 SIGNATURE PAGE

This Report has been prepared by WSP USA Inc. on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Unit at the Station to satisfy the reporting requirements specified in Title 40 Code of Federal Regulations (CFR) §257.90(e) *et seq.* [*Disposal of Coal Combustion Residuals* (CCR) *from Electric Utilities* (CCR Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended, as well as the Commonwealth of Virginia adoption of 40 CFR Part 257 Subpart D by reference Title 9 Virginia Administrative Code Agency 20, Chapter 81-800 *et seq.* (9VAC20-81-800).

WSP USA Inc.



Crystal Shadle
Lead Consultant, Geologist



Catherine Pezzaro, C.P.G.
Consultant, Geologist

TABLES

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-1	11.58	10/06/16	8.20	3.38
		11/14/16	8.84	2.74
		01/09/17	8.63	2.95
		02/20/17	8.70	2.88
		04/03/17	8.14	3.44
		05/15/17	8.40	3.18
		06/19/17	8.59	2.99
		07/24/17	9.09	2.49
		09/11/17	8.75	2.83
		03/28/18	8.85	2.73
		07/02/18	8.76	2.82
		10/22/18	9.28	2.30
		04/22/19	7.97	3.61
		10/21/19	8.71	2.87
		05/04/20	8.62	2.96
		11/02/20	8.53	3.05
		04/19/21	8.03	3.55
		10/18/21	8.42	3.16
		04/04/22	9.10	2.48
		10/03/22	8.85	2.73
		04/10/23	9.17	2.41
		10/09/23	9.35	2.23
MW-1D	11.38	10/06/16	8.14	3.24
		11/14/16	8.98	2.40
		01/09/17	8.78	2.60
		02/20/17	8.86	2.52
		04/03/17	8.03	3.35
		05/15/17	8.22	3.16
		06/19/17	8.55	2.83
		07/24/17	9.14	2.24
		09/11/17	8.80	2.58
		03/28/18	9.07	2.31
		07/02/18	8.69	2.69
		10/22/18	8.94	2.44
		04/22/19	7.90	3.48
		10/21/19	8.81	2.57
		05/04/20	8.83	2.55
		11/02/20	8.81	2.57
		04/19/21	7.78	3.60
		10/18/21	8.49	2.89
		04/04/22	8.47	2.91
		10/03/22	8.95	2.43
		04/10/23	10.40	0.98
		10/09/23	9.49	1.89
MW-1DD	11.10	10/14/16	7.50	3.60
		11/14/16	7.81	3.29
		01/09/17	8.01	3.09
		02/20/17	7.87	3.23
		04/03/17	7.80	3.30
		05/15/17	7.55	3.55
		06/19/17	7.68	3.42
		07/24/17	7.95	3.15
		09/11/17	7.91	3.19
		10/22/18	7.87	3.23
		04/22/19	7.39	3.71
		10/21/19	7.87	3.23
		05/04/20	7.59	3.51
		11/02/20	7.73	3.37
		04/19/21	7.42	3.68
		10/18/21	7.84	3.26
		04/04/22	8.29	2.81
		10/03/22	8.40	2.70
		04/10/23	8.45	2.65
		10/09/23	8.51	2.59

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-2	10.80	10/06/16	7.01	3.79
		11/14/16	7.70	3.10
		01/09/17	6.83	3.97
		02/20/17	7.09	3.71
		04/03/17	6.42	4.38
		05/15/17	6.92	3.88
		06/19/17	6.87	3.93
		07/24/17	7.91	2.89
		09/11/17	7.48	3.32
		03/28/18	7.98	2.82
		07/02/18	7.33	3.47
		10/22/18	7.44	3.36
		04/22/19	6.70	4.10
		10/21/19	7.46	3.34
		05/04/20	7.67	3.13
		11/02/20	7.69	3.11
		04/19/21	6.03	4.77
		10/18/21	6.95	3.85
		04/04/22	7.99	2.81
		10/03/22	7.90	2.90
		04/10/23	8.40	2.40
		10/09/23	8.21	2.59
MW-3	17.05	10/06/16	10.71	6.34
		11/14/16	10.90	6.15
		01/09/17	11.14	5.91
		02/20/17	11.11	5.94
		04/03/17	10.75	6.30
		05/15/17	10.72	6.33
		06/19/17	10.89	6.16
		07/24/17	11.15	5.90
		09/11/17	11.01	6.04
		03/28/18	11.42	5.63
		07/02/18	10.69	6.36
		10/22/18	10.94	6.11
		04/22/19	10.90	6.15
		10/21/19	11.17	5.88
		05/04/20	10.92	6.13
		11/02/20	11.02	6.03
		04/19/21	10.90	6.15
		10/18/21	11.22	5.83
		04/04/22	11.44	5.61
		10/03/22	12.90	4.15
		04/10/23	12.66	4.39
		10/09/23	12.94	4.11
MW-3D	16.92	10/06/16	78.89	-61.97
		10/17/16	72.23	-55.31
		11/14/16	84.95	-68.03
		01/09/17	68.88	-51.96
		02/20/17	66.27	-49.35
		04/03/17	62.20	-45.28
		05/15/17	59.22	-42.30
		06/19/17	60.29	-43.37
		07/24/17	59.43	-42.51
		09/11/17	54.39	-37.47
		03/28/18	24.22	-7.30
		07/02/18	21.89	-4.97
		10/22/18	17.98	-1.06
		04/22/19	24.13	-7.21
		10/21/19	16.52	0.40
		05/04/20	12.65	4.27
		11/02/20	13.40	3.52
		04/19/21	25.21	-8.29
		10/18/21	18.96	-2.04
		04/04/22	16.66	0.26
		10/03/22	15.80	1.12
		04/10/23	16.97	-0.05
		10/09/23	16.62	0.30

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-4	18.45	10/06/16	11.51	6.94
		11/14/16	11.45	7.00
		01/09/17	11.71	6.74
		02/20/17	11.68	6.77
		04/03/17	11.39	7.06
		05/15/17	11.42	7.03
		06/19/17	11.46	6.99
		07/24/17	11.64	6.81
		09/11/17	11.55	6.90
		03/28/18	11.98	6.47
		07/02/18	11.40	7.05
		10/22/18	11.50	6.95
		04/22/19	11.48	6.97
		10/21/19	11.73	6.72
		05/04/20	11.53	6.92
		11/02/20	11.49	6.96
		04/19/21	11.42	7.03
		10/18/21	11.62	6.83
		04/04/22	11.99	6.46
		10/03/22	13.28	5.17
		04/10/23	12.88	5.57
		10/09/23	13.35	5.10
MW-5	22.11	10/06/16	15.76	6.35
		11/14/16	15.52	6.59
		01/09/17	15.89	6.22
		02/20/17	15.87	6.24
		04/03/17	15.66	6.45
		05/15/17	15.70	6.41
		06/19/17	15.67	6.44
		07/24/17	15.85	6.26
		09/11/17	15.76	6.35
		03/28/18	16.12	5.99
		07/02/18	15.50	6.61
		10/22/18	15.41	6.70
		04/22/19	15.30	6.81
		10/21/19	15.81	6.30
		05/04/20	15.65	6.46
		11/02/20	14.71	7.40
Field recorded Depth to Water measurement of 24.90 feet corrected for field transcription error by MGW using pre-purge depth to water from event purge log		04/19/21	14.88	7.23
		10/18/21	15.29	6.82
		04/04/22	15.95	6.16
		10/03/22	16.73	5.38
		04/10/23	16.35	5.76
		10/09/23	16.83	5.28
OW-6S	40.00	11/14/16	32.85	7.15
		01/09/17	33.30	6.70
		02/20/17	33.29	6.71
		04/03/17	33.17	6.83
		05/15/17	33.00	7.00
		06/19/17	32.94	7.06
		07/24/17	33.18	6.82
		07/02/18	32.93	7.07
		04/22/19	32.38	7.62
		10/24/19	33.64	6.36
		05/04/20	33.12	6.88
		11/02/20	31.85	8.15
		04/19/21	Not Measured	Not Measured
		10/18/21	32.66	7.34
		04/04/22	33.49	6.51
		10/03/22	34.10	5.90
		04/10/23	33.67	6.33
		10/09/23	34.21	5.79

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-6	39.24	10/04/16	33.69	5.55
		11/14/16	34.14	5.10
		01/09/17	34.32	4.92
		02/20/17	34.29	4.95
		04/03/17	33.85	5.39
		05/15/17	33.74	5.50
		06/19/17	33.82	5.42
		07/24/17	34.23	5.01
		09/11/17	34.10	5.14
		03/28/18	34.22	5.02
		07/02/18	33.86	5.38
		10/22/18	33.82	5.42
		04/22/19	33.35	5.89
		10/21/19	34.05	5.19
		05/04/20	33.65	5.59
		11/02/20	33.07	6.17
		04/19/21	33.08	6.16
		10/18/21	33.54	5.70
		04/04/22	34.10	5.14
		10/03/22	34.45	4.79
		04/10/23	34.20	5.04
		10/09/23	34.70	4.54
MW-6D	40.17	10/11/16	76.21	-36.04
		11/14/16	69.63	-29.46
		01/09/17	74.98	-34.81
		02/20/17	34.78	5.39
		04/03/17	34.28	5.89
		05/15/17	34.11	6.06
		06/19/17	34.14	6.03
		07/24/17	34.45	5.72
		09/11/17	34.40	5.77
		03/28/18	34.55	5.62
		07/02/18	32.94	7.23
		10/22/18	33.22	6.95
		04/22/19	32.82	7.35
		10/21/19	33.69	6.48
		05/04/20	33.40	6.77
		11/02/20	32.35	7.82
		04/19/21	32.25	7.92
		10/18/21	33.26	6.91
		04/04/22	34.13	6.04
		10/03/22	34.50	5.67
		04/10/23	34.30	5.87
		10/09/23	34.82	5.35
MW-6DD	42.69	10/11/16	47.48	-4.79
		11/14/16	41.42	1.27
		01/09/17	38.14	4.55
		02/20/17	38.43	4.26
		04/03/17	38.22	4.47
		05/15/17	38.00	4.69
		06/19/17	38.22	4.47
		07/24/17	38.40	4.29
		09/11/17	38.21	4.48
		10/22/18	37.96	4.73
		04/22/19	37.43	5.26
		10/24/19	38.10	4.59
		05/04/20	37.48	5.21
		11/02/20	37.73	4.96
		04/19/21	37.41	5.28
		10/18/21	37.72	4.97
		04/04/22	37.83	4.86
		10/03/22	38.05	4.64
		04/10/23	38.01	4.68
		10/09/23	38.11	4.58

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-7	43.45	10/04/16	35.24	8.21
		11/14/16	34.78	8.67
		01/09/17	35.32	8.13
		02/20/17	35.28	8.17
		04/03/17	35.00	8.45
		05/03/17	34.71	8.74
		05/15/17	34.70	8.75
		05/26/17	34.55	8.90
		06/19/17	34.52	8.93
		07/05/17	34.72	8.73
		07/24/17	34.82	8.63
		08/10/17	34.94	8.51
		09/11/17	34.98	8.47
		03/28/18	35.90	7.55
		07/02/18	34.82	8.63
		10/22/18	34.89	8.56
		04/22/19	34.25	9.20
		10/21/19	35.25	8.20
		05/04/20	35.32	8.13
		11/02/20	34.40	9.05
		04/19/21	34.30	9.15
		10/18/21	35.07	8.38
		04/04/22	35.90	7.55
		10/03/22	37.77	5.68
		04/10/23	36.53	6.92
		10/09/23	37.02	6.43
MW-8R	44.10	01/09/17	36.20	7.90
		02/20/17	36.34	7.76
		04/03/17	35.91	8.19
		05/03/17	35.76	8.34
		05/15/17	35.69	8.41
		05/26/17	35.57	8.53
		06/06/17	35.54	8.56
		06/19/17	35.72	8.38
		07/05/17	36.05	8.05
		07/24/17	36.16	7.94
		08/10/17	36.14	7.96
		09/11/17	36.18	7.92
		03/28/18	37.25	6.85
		07/02/18	36.26	7.84
		10/22/18	36.30	7.80
		04/22/19	35.42	8.68
		10/21/19	36.48	7.62
		05/04/20	37.14	6.96
		11/02/20	36.43	7.67
		04/19/21	35.01	9.09
		10/18/21	36.00	8.10
		04/04/22	37.24	6.86
		10/03/22	37.92	6.18
		04/10/23	38.36	5.74
		10/09/23	38.74	5.36

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-9R	44.64	02/20/17	37.20	7.44
		04/03/17	36.87	7.77
		05/03/17	36.65	7.99
		05/15/17	36.57	8.07
		05/26/17	36.49	8.15
		06/06/17	36.50	8.14
		06/19/17	36.70	7.94
		07/05/17	37.02	7.62
		07/24/17	37.15	7.49
		08/10/17	37.23	7.41
		09/11/17	37.25	7.39
		03/28/18	38.24	6.40
		07/02/18	37.30	7.34
		10/22/18	37.34	7.30
		04/22/19	35.44	9.20
		10/21/19	37.50	7.14
		05/04/20	38.25	6.39
		11/02/20	37.48	7.16
		04/19/21	35.95	8.69
		10/18/21	36.95	7.69
		04/04/22	38.23	6.41
		10/03/22	38.95	5.69
		04/10/23	39.40	5.24
		10/09/23	39.69	4.95
MW-10	43.60	10/05/16	36.27	7.33
		11/14/16	35.99	7.61
		01/09/17	36.54	7.06
		02/20/17	36.55	7.05
		04/03/17	36.25	7.35
		05/15/17	36.01	7.59
		06/19/17	36.10	7.50
		07/24/17	36.47	7.13
		09/11/17	36.56	7.04
		03/28/18	37.48	6.12
		07/02/18	36.62	6.98
		10/22/18	36.69	6.91
		04/22/19	35.93	7.67
		10/21/19	36.90	6.70
		05/04/20	37.51	6.09
		11/02/20	36.93	6.67
		04/19/21	35.47	8.13
		10/18/21	36.49	7.11
		04/04/22	37.62	5.98
		10/03/22	38.08	5.52
		04/10/23	38.00	5.60
		10/09/23	38.89	4.71
MW-11	43.87	10/05/16	36.85	7.02
		11/14/16	36.85	7.02
		01/09/17	37.41	6.46
		02/20/17	37.40	6.47
		04/03/17	37.13	6.74
		05/15/17	36.92	6.95
		06/19/17	36.71	7.16
		07/24/17	37.02	6.85
		09/11/17	37.11	6.76
		03/28/18	37.90	5.97
		07/02/18	37.31	6.56
		10/22/18	37.37	6.50
		04/22/19	36.74	7.13
		10/21/19	37.60	6.27
		05/04/20	38.10	5.77
		11/02/20	37.63	6.24
		04/19/21	36.40	7.47
		10/18/21	37.11	6.76
		04/04/22	38.25	5.62
		10/03/22	38.71	5.16
		04/10/23	39.15	4.72
		10/09/23	39.30	4.57

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-12	44.06	10/05/16	38.40	5.66
		11/14/16	38.41	5.65
		01/09/17	39.01	5.05
		02/20/17	39.05	5.01
		04/03/17	38.65	5.41
		05/15/17	38.52	5.54
		06/19/17	38.61	5.45
		07/24/17	38.94	5.12
		09/11/17	38.93	5.13
		03/28/18	39.28	4.78
		07/02/18	39.15	4.91
		10/22/18	39.04	5.02
		04/22/19	38.72	5.34
		10/21/19	38.72	5.34
		05/04/20	39.51	4.55
		11/02/20	39.26	4.80
		04/19/21	38.47	5.59
Field recorded Depth to Water measurement of 19.00 feet corrected for field transcription error by MGW using depth to water from well purge log		10/18/21	39.12	4.94
		04/04/22	40.00	4.06
		10/03/22	40.05	4.01
		04/10/23	40.45	3.61
		10/09/23	40.31	3.75
MW-13	12.68	10/07/16	10.34	2.34
		11/14/16	11.89	0.79
		01/09/17	11.63	1.05
		02/20/17	11.59	1.09
		04/03/17	10.90	1.78
		05/15/17	10.95	1.73
		06/19/17	11.34	1.34
		07/24/17	11.08	1.60
		09/11/17	11.60	1.08
		03/28/18	11.55	1.13
		07/02/18	11.31	1.37
		10/22/18	11.94	0.74
		04/22/19	10.74	1.94
		10/21/19	11.21	1.47
		05/04/20	11.27	1.41
		11/02/20	11.24	1.44
		04/19/21	10.63	2.05
		10/18/21	11.37	1.31
		04/04/22	11.83	0.85
		10/03/22	10.90	1.78
		04/10/23	11.65	1.03
		10/09/23	11.58	1.10
MW-14	21.19	10/07/16	18.25	2.94
		11/14/16	19.45	1.74
		01/09/17	19.52	1.67
		02/20/17	19.53	1.66
		04/03/17	18.79	2.40
		05/15/17	18.68	2.51
		06/19/17	19.15	2.04
		07/24/17	19.56	1.63
		09/11/17	19.03	2.16
		03/28/18	19.30	1.89
		07/02/18	19.25	1.94
		10/22/18	19.74	1.45
		04/22/19	18.62	2.57
		10/21/19	19.15	2.04
		05/04/20	18.96	2.23
		11/02/20	19.00	2.19
		04/19/21	15.67	5.52
		10/18/21	20.52	0.67
		04/04/22	19.77	1.42
		10/03/22	19.00	2.19
		04/10/23	19.62	1.57
		10/09/23	19.68	1.51

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-15	24.39	10/07/16	22.52	1.87
		11/14/16	24.45	-0.06
		01/09/17	24.10	0.29
		02/20/17	24.03	0.36
		04/03/17	22.88	1.51
		05/15/17	19.85	4.54
		06/19/17	23.60	0.79
		07/24/17	24.08	0.31
		09/11/17	23.70	0.69
		03/28/18	23.91	0.48
		07/02/18	23.25	1.14
		10/22/18	24.68	-0.29
		04/22/19	22.11	2.28
		10/21/19	23.10	1.29
		05/04/20	23.42	0.97
		11/02/20	24.05	0.34
		04/19/21	22.48	1.91
		10/18/21	23.54	0.85
		04/04/22	24.00	0.39
		10/03/22	22.70	1.69
		04/10/23	23.80	0.59
		10/09/23	24.31	0.08
MW-16	23.17	10/06/16	19.91	3.26
		11/14/16	20.70	2.47
		01/09/17	20.62	2.55
		02/20/17	20.71	2.46
		04/03/17	20.27	2.90
		05/15/17	20.13	3.04
		06/19/17	20.46	2.71
		07/24/17	20.90	2.27
		09/11/17	20.68	2.49
		03/28/18	20.61	2.56
		07/02/18	20.70	2.47
		10/22/18	20.41	2.76
		04/22/19	20.22	2.95
		10/21/19	20.75	2.42
		05/04/20	20.55	2.62
		11/02/20	20.53	2.64
		04/19/21	19.99	3.18
		10/18/21	20.52	2.65
		04/04/22	21.30	1.87
		10/03/22	20.80	2.37
		04/10/23	21.30	1.87
		10/09/23	21.35	1.82
MW-16D	23.09	10/06/16	21.12	1.97
		11/14/16	22.42	0.67
		01/09/17	22.09	1.00
		02/20/17	22.23	0.86
		04/03/17	21.36	1.73
		05/15/17	21.25	1.84
		06/19/17	21.84	1.25
		07/24/17	22.29	0.80
		09/11/17	21.88	1.21
		03/28/18	21.80	1.29
		07/02/18	21.69	1.40
		10/22/18	22.46	0.63
		04/22/19	20.81	2.28
		10/21/19	21.65	1.44
		05/04/20	21.49	1.60
		11/02/20	21.69	1.40
		04/19/21	21.25	1.84
		10/18/21	21.69	1.40
		04/04/22	22.38	0.71
		10/03/22	21.15	1.94
		04/10/23	21.95	1.14
		10/09/23	22.22	0.87

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-16DD	23.64	10/13/16	17.38	6.26
		11/14/16	17.45	6.19
		01/09/17	17.39	6.25
		02/20/17	17.24	6.40
		04/03/17	17.15	6.49
		05/15/17	17.00	6.64
		06/19/17	17.22	6.42
		07/24/17	17.38	6.26
		09/11/17	17.38	6.26
		10/22/18	17.81	5.83
		04/22/19	16.93	6.71
		10/23/19	17.46	6.18
		05/04/20	17.34	6.30
		11/02/20	17.64	6.00
		04/19/21	17.24	6.40
		10/18/21	17.74	5.90
		04/04/22	17.89	5.75
		10/03/22	18.15	5.49
		04/10/23	18.48	5.16
		10/09/23	19.00	4.64
MW-17S	13.01	10/06/16	9.50	3.51
		11/14/16	10.00	3.01
		01/09/17	10.08	2.93
		02/20/17	10.12	2.89
		04/03/17	9.73	3.28
		05/15/17	9.76	3.25
		06/19/17	9.97	3.04
		07/24/17	10.13	2.88
		09/11/17	9.90	3.11
		03/28/18	9.97	3.04
		07/02/18	10.12	2.89
		10/22/18	10.31	2.70
		04/22/19	9.41	3.60
		10/21/19	10.05	2.96
		05/04/20	9.95	3.06
		11/02/20	9.95	3.06
		04/19/21	9.70	3.31
		10/18/21	9.97	3.04
		04/04/22	10.46	2.55
		10/03/22	10.03	2.98
		04/10/23	10.41	2.60
		10/09/23	9.67	3.34
OW-17I	12.74	11/14/16	10.49	2.25
		01/09/17	10.59	2.15
		02/20/17	10.70	2.04
		04/03/17	9.89	2.85
		05/15/17	9.71	3.03
		06/19/17	10.28	2.46
		07/02/18	10.21	2.53
		10/22/18	10.87	1.87
		04/22/19	9.43	3.31
		10/21/19	10.11	2.63
		05/04/20	10.02	2.72
		11/02/20	10.36	2.38
		04/19/21	10.09	2.65
		10/18/21	10.32	2.42
		04/04/22	11.11	1.63
		10/03/22	10.08	2.66
		04/10/23	10.74	2.00
		10/09/23	10.97	1.77

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
OW-17D	12.79	11/14/16	10.71	2.08
		01/09/17	11.06	1.73
		02/20/17	11.11	1.68
		04/03/17	10.46	2.33
		05/15/17	10.02	2.77
		06/19/17	10.69	2.10
		10/22/18	11.03	1.76
		04/22/19	9.77	3.02
		10/21/19	10.46	2.33
		05/04/20	10.35	2.44
		11/02/20	10.38	2.41
		04/19/21	10.18	2.61
		10/18/21	10.74	2.05
		04/04/22	11.24	1.55
		10/03/22	10.25	2.54
		04/10/23	10.82	1.97
		10/09/23	11.11	1.68
MW-29U	7.13	10/07/16	6.22	0.91
		11/14/16	6.40	0.73
		01/09/17	7.00	0.13
		02/20/17	5.74	1.39
		04/03/17	4.69	2.44
		05/15/17	4.60	2.53
		06/19/17	4.79	2.34
		07/24/17	6.30	0.83
		09/11/17	6.90	0.23
		03/28/18	6.25	0.88
		07/02/18	4.70	2.43
		10/22/18	5.39	1.74
		04/22/19	3.93	3.20
		10/21/19	7.61	-0.48
		05/04/20	4.45	2.68
		11/02/20	4.31	2.82
		04/19/21	3.90	3.23
		10/18/21	6.78	0.35
		04/04/22	5.60	1.53
		10/03/22	7.33	-0.20
		04/10/23	4.71	2.42
		10/09/23	7.10	0.03
MW-30U	6.94	10/07/16	3.78	3.16
		11/14/16	4.88	2.06
		01/09/17	4.79	2.15
		02/20/17	4.29	2.65
		04/03/17	4.01	2.93
		05/15/17	3.99	2.95
		06/19/17	3.94	3.00
		07/24/17	4.78	2.16
		09/11/17	3.90	3.04
		03/28/18	5.37	1.57
		07/02/18	4.49	2.45
		10/22/18	4.79	2.15
		04/22/19	4.00	2.94
		10/21/19	4.02	2.92
		05/04/20	3.84	3.10
		11/02/20	4.41	2.53
		04/19/21	4.25	2.69
		10/18/21	4.49	2.45
		04/04/22	5.28	1.66
		10/03/22	4.05	2.89
Field recorded Depth to Water measurement of 15.25 feet corrected for field transcription error by MW using depth to water from well purge log		04/10/23	4.74	2.20
		10/09/23	4.41	2.53

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-31U	6.29	10/13/16	3.24	3.05
		11/14/16	2.42	3.87
		01/09/17	3.21	3.08
		02/20/17	2.92	3.37
		04/03/17	2.61	3.68
		05/17/17	2.72	3.57
		06/19/17	2.31	3.98
		07/24/17	2.87	3.42
		09/11/17	2.28	4.01
		10/22/18	2.48	3.81
		04/22/19	1.52	4.77
		05/04/20	1.31	4.98
		11/02/20	1.71	4.58
		04/19/21	1.32	4.97
		10/18/21	1.71	4.58
		04/04/22	2.08	4.21
		10/03/22	1.25	5.04
		04/10/23	2.00	4.29
		10/09/23	1.72	4.57
MW-B31	12.81	10/06/16	7.02	5.79
		11/14/16	7.39	5.42
		01/09/17	6.85	5.96
		02/20/17	7.26	5.55
		04/03/17	6.54	6.27
		05/17/17	7.20	5.61
		06/19/17	7.63	5.18
		07/24/17	8.99	3.82
		09/11/17	7.87	4.94
		03/28/18	8.24	4.57
		07/02/18	7.78	5.03
		10/22/18	7.46	5.35
		04/22/19	7.62	5.19
		10/21/19	7.18	5.63
		05/04/20	7.23	5.58
		07/20/20	8.90	3.91
		11/02/20	6.62	6.19
		04/19/21	7.17	5.64
		10/18/21	8.29	4.52
		04/04/22	7.75	5.06
		10/03/22	9.00	3.81
		04/10/23	8.40	4.41
		07/18/23	9.71	3.10
		10/09/23	9.38	3.43
MW-B32	13.58	10/06/16	10.78	2.80
		11/14/16	11.82	1.76
		01/09/17	12.15	1.43
		02/20/17	11.19	2.39
		04/03/17	10.49	3.09
		05/15/17	10.69	2.89
		06/19/17	10.89	2.69
		07/24/17	11.78	1.80
		09/11/17	11.31	2.27
		03/28/18	12.94	0.64
		07/02/18	11.24	2.34
		10/22/18	11.42	2.16
		04/22/19	10.75	2.83
		10/21/19	11.32	2.26
		05/04/20	11.68	1.90
		11/02/20	11.87	1.71
		04/19/21	10.50	3.08
		10/18/21	10.95	2.63
		04/04/22	11.96	1.62
		10/03/22	11.40	2.18
		04/10/23	12.10	1.48
		07/18/23	12.05	1.53
		10/09/23	12.00	1.58

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-35S	57.81	01/09/17	49.67	8.14
		02/20/17	50.02	7.79
		04/03/17	50.06	7.75
		05/03/17	50.12	7.69
		05/15/17	49.62	8.19
		05/26/17	49.48	8.33
		06/06/17	49.03	8.78
		06/19/17	49.42	8.39
		07/05/17	49.81	8.00
		07/24/17	50.13	7.68
		08/10/17	50.32	7.49
		09/11/17	50.38	7.43
		03/28/18	51.32	6.49
		07/02/18	50.67	7.14
		10/22/18	49.37	8.44
		04/22/19	48.77	9.04
		10/21/19	50.07	7.74
		05/04/20	50.59	7.22
		11/02/20	48.44	9.37
		04/19/21	47.51	10.30
		10/18/21	49.04	8.77
		04/04/22	50.82	6.99
		10/03/22	50.96	6.85
		04/10/23	50.99	6.82
		07/18/23	50.99	6.82
		10/09/23	51.05	6.76
MW-35B	58.18	01/09/17	56.02	2.16
		02/20/17	124.14	-65.96
		04/03/17	103.67	-45.49
		05/03/17	92.52	-34.34
		05/15/17	103.78	-45.60
		05/26/17	93.89	-35.71
		06/06/17	103.25	-45.07
		06/19/17	56.46	1.72
		07/05/17	96.98	-38.80
		07/24/17	97.74	-39.56
		08/10/17	86.01	-27.83
		09/11/17	83.30	-25.12
		10/22/18	55.18	3.00
		04/22/19	54.72	3.46
		05/04/20	56.04	2.14
		11/02/20	54.92	3.26
		04/19/21	54.56	3.62
		10/18/21	54.79	3.39
		04/04/22	55.09	3.09
		10/03/22	54.91	3.27
		04/10/23	55.28	2.90
		10/09/23	54.75	3.43

Table 1
Summary of Historical CCR Static Water Level Data
Chesterfield Power Station, Upper Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-35D	57.75	01/09/17	55.10	2.65
		02/20/17	55.51	2.24
		04/03/17	55.28	2.47
		05/03/17	55.06	2.69
		05/15/17	54.68	3.07
		05/26/17	54.59	3.16
		06/06/17	54.63	3.12
		06/19/17	54.77	2.98
		07/05/17	55.17	2.58
		07/24/17	55.30	2.45
		08/10/17	55.10	2.65
		09/11/17	54.92	2.83
		03/28/18	55.50	2.25
		07/02/18	54.96	2.79
		10/22/18	55.06	2.69
		04/22/19	54.45	3.30
		10/21/19	55.02	2.73
		05/04/20	54.77	2.98
		11/02/20	54.73	3.02
		04/19/21	54.58	3.17
		10/18/21	54.94	2.81
		04/04/22	55.45	2.30
		10/03/22	55.28	2.47
		04/10/23	55.32	2.43
		10/09/23	55.25	2.50

Notes:
ft - Feet
ft msl - Feet Ablove Mean Sea Level
BTOC - Below Top of Casing

Table 2
Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

					Upgradient Wells								Downgradient Wells															
				Sample ID:	MW-29U				MW-35S				MW-1				MW-2				MW-3				MW-5				MW-8R			
				Sample Date:	10/3/2022				10/3/2022				10/6/2022				10/5/2022				10/5/2022				10/5/2022				10/5/2022			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virgina CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	QL (50)	--	--	< 32.4	U	32.4	50.0	< 32.4	U	32.4	50.0	**2720**		32.4	50.0	**1310**		32.4	50.0	**1020**		32.4	50.0	**1470**		32.4	50.0	**1290**		32.4	50.0
Calcium	ug/L	63,900	--	--	**49200**		94.2	100	**5880**		94.2	100	**113000**		471	500	**30000**		94.2	100	**76800**		94.2	100	**92200**		94.2	100	**95900**		94.2	100
Chloride	mg/L	46	--	--	**14.5**		0.60	1.0	**11.8**		0.60	1.0	**74.9**		0.60	1.0	**17.4**		0.60	1.0	**6.8**		0.60	1.0	**5.9**		0.60	1.0	**9.8**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.21**		0.050	0.10	**0.070**	J	0.050	0.10	**0.15**		0.050	0.10	**0.17**		0.050	0.10	**1.3**		0.050	0.10	**0.060**	J	0.050	0.10	**0.24**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.23		0.01	0.01	5.23		0.01	0.01	6.24		0.01	0.01	5.60		0.01	0.01	6.85		0.01	0.01	5.05		0.01	0.01	6.40		0.01	0.01
Sulfate	mg/L	9.16	--	--	< 0.50	U	0.50	1.0	**4.2**		0.50	1.0	**101**		1.0	2.0	**81.1**		0.50	1.0	**61.0**		0.50	1.0	**544**		5.5	11.0	**172**		1.5	3.0
Total Dissolved Solids	mg/L	450	--	--	**395**		25.0	25.0	**80.0**		25.0	25.0	**630**		125	125	**281**		25.0	25.0	**378**		25.0	25.0	**884**		50.0	50.0	**634**		25.0	25.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	**10.1**		0.087	1.0	**0.10**	J	0.087	1.0	**0.62**	J	0.087	1.0	**1.1**		0.087	1.0	**0.42**	J	0.087	1.0	**0.97**	J	0.087	1.0	**15.0**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**259**		3.5	5.0	**27.8**		3.5	5.0	**154**		3.5	5.0	**99.6**		3.5	5.0	**114**		3.5	5.0	**13.0**		3.5	5.0	**214**		3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	5	5	**0.44**	J	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	100	100	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**2.4**		0.050	1.0	**0.082**	J	0.050	1.0	**3.2**		0.050	1.0	**13.5**		0.050	1.0	**6.3**		0.050	1.0	**25.4**		0.050	1.0	**1.9**		0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.21**		0.050	0.10	**0.070**	J	0.050	0.10	**0.15**		0.050	0.10	**0.17**		0.050	0.10	**1.3**		0.050	0.10	**0.060**	J	0.050	0.10	**0.24**		0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	**0.28**	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	< 0.85	U	0.85	1.0	< 0.077	U	0.077	1.0	< 0.091	U	0.091	1.0	< 0.18	U	0.18	1.0
Lithium	ug/L	QL (50)	40	QL (50)	< 0.50	U	0.50	2.5	**4.3**		0.50	2.5	**0.55**	J	0.50	2.5	**4.7**		0.50	2.5	**17.2**		0.50	2.5	**44.5**		0.50	2.5	< 0.50	U	0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.46**	J	0.13	1.0	< 0.13	U	0.13	1.0	**0.36**	J	0.13	1.0	**0.30**	J	0.13	1.0	**64.4**		0.13	1.0	< 0.13	U	0.13	1.0	**4.2**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	**0.19**	J	0.050	0.47	**0.082**	J	0.050	0.47	< 0.050	U	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.55	5	5	**0.526**	J	--	--	**0.781**	J	--	--	**9.24**		--	--	**8.05**	J+	--	--	0.154	U	--	--	**2.72**	J+	--	--	**1.54**		--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	761		0.1	0.1	120.1		0.1	0.1	1079		0.1	0.1	410.4		0.1	0.1	571		0.1	0.1	991		0.1	0.1	953		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.99		0.01	0.01	8.02		0.01	0.01	0.41		0.01	0.01	0.45		0.01	0.01	0.73		0.01	0.01	0.55		0.01	0.01	0.71		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-37.0		0.1	0.1	175.5		0.1	0.1	97.2		0.1	0.1	206.3		0.1	0.1	121.3		0.1	0.1	178.4		0.1	0.1	-23.0		0.1	0.1
Temperature	C	--	--	--	18.7		0.01	0.01	17.0		0.01	0.01	17.4		0.01	0.01	19.2		0.01	0.01	18.6		0.01	0.01	16.7		0.01	0.01	17.7		0.01	0.01
Turbidity	ntu	--	--	--	24.10		0.1	0.1	4.70		0.1	0.1	6.57		0.1	0.1	7.87		0.1	0.1	2.26		0.1	0.1	9.42		0.1	0.1	8.28		0.1	0.1

					Downgradient Wells																							
				Sample ID:	MW-9R				MW-11				MW-12				MW-13				MW-15				MW-16				MW-17S			
				Sample Date:	10/5/2022				10/6/2022				10/6/2022				10/5/2022				10/5/2022				10/5/2022				10/6/2022			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virgina CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	QL (50)	--	--	**212**		32.4	50.0	**1090**		32.4	50.0	**1410**		32.4	50.0	**1660**		32.4	50.0	**444**		32.4	50.0	**3740**		32.4	50.0	**2260**		32.4	50.0
Calcium	ug/L	63,900	--	--	**37300**		94.2	100	**94500**		94.2	100	**148000**		471	500	**271000**		471	500	**73400**		94.2	100	**561000**		942	1000	**231000**		471	500
Chloride	mg/L	46	--	--	**8.3**		0.60	1.0	**8.8**		0.60	1.0	**15.8**		0.60	1.0	**43.4**		0.60	1.0	**85.2**		0.60	1.0	**404**		11.4	19.0	**78.9**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.15**		0.050	0.10	**0.12**		0.050	0.10	**0.17**		0.050	0.10	**0.094**	J	0.050	0.10	**0.63**		0.050	0.10	**0.30**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.05		0.01	0.01	6.18		0.01	0.01	6.02		0.01	0.01	5.75		0.01	0.01	5.55		0.01	0.01	6.51		0.01	0.01	6.71		0.01	0.01
Sulfate	mg/L	9.16	--	--	**50.0**		0.50	1.0	**51.4**		0.50	1.0	**262**		2.5	5.0	**1280**		12.0	24.0	**228**		2.5	5.0	**996**		9.0	19.0	**147**		1.5	3.0
Total Dissolved Solids	mg/L	450	--	--	**255**		25.0	25.0	**426**		50.0	50.0	**715**		125	125	**2180**		125	125	**548**		25.0	25.0	**2380**		250	250	**850**		250	250
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0	<0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	**7.1**		0.087	1.0	**9.0**		0.087	1.0	**7.7**		0.087	1.0	**126**		0.087	1.0	**0.39**	J	0.087	1.0	**0.54**	J	0.087	1.0	**15.5**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**109**		3.5	5.0	**149**		3.5	5.0	**56.1**		3.5	5.0	**24.1**		3.5	5.0	**43.0**		3.5	5.0	**26.7**		3.5	5.0	**124**		3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0	<0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	<0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	5	5	< 0.40	U	0.40	1.0	<0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	**1.8**		0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	<0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	100	100	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**5.2**		0.050	1.0	**6.8**		0.050	1.0	**15.1**		0.050	1.0	**358**		0.25	5.0	**55.8**		0.050	1.0	**26.4**		0.050	1.0	**10.9**		0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.15**		0.050	0.10	**0.12**		0.050	0.10	**0.17**		0.050	0.10	**0.094**	J	0.050	0.10	**0.63**		0.050	0.10	**0.30**		0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	< 0.077	U	0.077	1.0	<0.077	U	0.077	1.0	< 0.30	U	0.30	1.0	< 0.077	U	0.077	1.0	< 0.28	U	0.28	1.0	< 0.12	U	0.12	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**1.1**	J	0.50	2.5	< 0.50	U	0.50	2.5	**0.70**	J	0.50	2.5	**136**		0.50	2.5	**21.9**		0.50	2.5	**137**		0.50	2.5	< 0.50	U	0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.48**	J	0.13	1.0	**1.2**		0.13	1.0	**0.87**	J	0.13	1.0	**4.9**		0.13	1.0	**0.29**	J	0.13	1.0	**11.4**		0.13	1.0	**8.9**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0	**7.1**	J	4.7	10.0	**5.5**	J	4.7	10.0	**17.0**		4.7	10.0	< 4.7	U	4.7	10.0	**7.9**	J	4.7	10.0	**7.5**	J	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	<0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	**0.43**	J	0.050	0.47	**0.24**	J	0.050	0.47	**0.56**		0.050	0.47	**0.44**	J	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.55	5	5	0.441	U	--	--	**0.815**	J	--	--	0.243	U	--	--	0.675	U	--	--	**2.14**	J+	--	--	**3.84**		--	--	**6.16**		--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	421.0		0.1	0.1	816		0.1	0.1	1096		0.1	0.1	2388		0.1	0.1	855		0.1	0.1	3239		0.1	0.1	1009		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	1.39		0.01	0.01	0.53		0.01	0.01	0.21		0.01	0.01	0.47		0.01	0.01	0.25		0.01	0.01	0.20		0.01	0.01	0.66		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	20.2		0.1	0.1	-24.8		0.1	0.1	20.0		0.1	0.1	-2.1		0.1	0.1	224.6		0.1	0.1	67.6		0.1	0.1	-86.5		0.1	0.1
Temperature	C	--	--	--	18.2		0.01	0.01	18.9		0.01	0.01	18.1		0.01	0.01	18.6		0.01	0.01	16.8		0.01	0.01	17.1		0.01	0.01	18.2		0.01	0.01
Turbidity	ntu	--	--	--	9.69		0.1	0.1	9.53		0.1	0.1	18.46		0.1	0.1	9.74		0.1	0.1	8.68		0.1	0.1	9.22		0.1	0.1	9.87		0.1	0.1

Notes:
C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

= Concentration greater than site-specific background
= Concentration greater than Virginia GWPS and site background
= Concentration greater than Virginia and/or Federal GWPS and site background

Table 2
Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

					Downgradient Wells								Field Quality Control Samples							
				Sample ID:	MW-B31				MW-B32				MW-8R Duplicate				Field Blank			
				Sample Date:	10/4/2022				10/4/2022				10/5/2022				10/5/2022			
Parameter Name	**Unit**	**CCR Site-Specific BKG**	**Federal CCR GWPS**	**Virgina CCR GWPS**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents																				
Boron	ug/L	QL (50)	--	--	< 32.4	U	32.4	50.0	**2320**		32.4	50.0	**1260**		32.4	50.0	< 32.4	U	32.4	50.0
Calcium	ug/L	63,900	--	--	**2720**		94.2	100	**249000**		471	500	**94300**		94.2	100	< 94.2	U	94.2	100
Chloride	mg/L	46	--	--	**3.6**		0.60	1.0	**111**		6.6	11.0	**10.6**		0.60	1.0	< 0.60	U	0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.059**	J	0.050	0.10	**0.19**		0.050	0.10	**0.26**		0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	4.63-6.72	--	--	5.28		0.01	0.01	6.26		0.01	0.01	--		0.01	0.01	--		0.01	0.01
Sulfate	mg/L	9.16	--	--	**5.6**		0.50	1.0	**567**		5.5	11.0	**177**		1.5	3.0	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**50.0**		25.0	25.0	**1320**		50.0	50.0	**550**		125	125	< 25.0	U	25.0	25.0
CCR Appendix IV Constituents																				
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	<0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	**0.11**	J	0.087	1.0	**0.26**	J	0.087	1.0	**15.0**		0.087	1.0	< 0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	**12.8**		3.5	5.0	**32.1**		3.5	5.0	**209**		3.5	5.0	< 3.5	U	3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	<0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	5	5	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	<0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	100	100	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**0.28**	J	0.050	1.0	**4.8**		0.050	1.0	**2.0**		0.050	1.0	< 0.050	U	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.059**	J	0.050	0.10	**0.19**		0.050	0.10	**0.26**		0.050	0.10	< 0.050	U	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	< 0.15	U	0.15	1.0	< 0.077	U	0.077	1.0	< 0.081	U	0.081	1.0	**0.31**	J	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**1.3**	J	0.50	2.5	**6.7**		0.50	2.5	< 0.50	U	0.50	2.5	< 0.50	U	0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.14**	J	0.13	1.0	**0.27**	J	0.13	1.0	**4.2**		0.13	1.0	< 0.13	U	0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0	**8.2**	J	4.7	10.0	**5.4**	J	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	**0.31**	J	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.55	5	5	0.311	U	--	--	**3.02**	J+	--	--	**1.09**	J	--	--	0.000	U	--	--
Field Parameters																				
Conductivity	uS/cm	--	--	--	59.6		0.1	0.1	1251		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	1.44		0.01	0.01	0.32		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	261.9		0.1	0.1	136.4		0.1	0.1	--		--	--	--		--	--
Temperature	C	--	--	--	17.2		0.01	0.01	16.6		0.01	0.01	--		--	--	--		--	--
Turbidity	ntu	--	--	--	5.99		0.1	0.1	3.99		0.1	0.1	--		--	--	--		--	--

Notes:
C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

= Concentration greater than site-specific background
= Concentration greater than Virginia GWPS and site background
= Concentration greater than Virginia and/or Federal GWPS and site background

Table 3
Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Potomac Aquifer
Chesterfield Power Station, Upper Ash Pond

					Upgradient Wells																Downgradient Wells											
				Sample ID:	MW-29U				MW-30U				MW-35S				MW-35D				MW-1D				MW-3D				MW-4			
				Sample Date:	10/3/2022				10/6/2022				10/3/2022				10/6/2022				10/6/2022				10/6/2022				10/5/2022			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	150	--	--	< 32.4	U	32.4	50.0	**114**		32.4	50.0	< 32.4	U	32.4	50.0	**92.7**		32.4	50.0	**34.1**	J	32.4	50.0	**2060**		32.4	50.0	**1750**		32.4	50.0
Calcium	ug/L	63,900	--	--	**49200**		94.2	100	**7130**		94.2	100	**5880**		94.2	100	**7950**		94.2	100	**9680**		94.2	100	**7410**		94.2	100	**73900**		94.2	100
Chloride	mg/L	46	--	--	**14.5**		0.60	1.0	**7.9**		0.60	1.0	**11.8**		0.60	1.0	**10.5**		0.60	1.0	**19.1**		0.60	1.0	**33.7**		0.60	1.0	**2.7**		0.60	1.0
Fluoride	mg/L	0.313	4	4	**0.21**		0.050	0.10	**0.15**		0.050	0.10	**0.070**	J	0.050	0.10	**0.21**		0.050	0.10	**0.18**		0.050	0.10	**0.63**		0.050	0.10	**0.065**	J	0.050	0.10
pH	SU	5.16-6.92	--	--	6.23		0.01	0.01	6.24		0.01	0.01	5.23		0.01	0.01	6.26		0.01	0.01	4.52		0.01	0.01	7.08		0.01	0.01	5.31		0.01	0.01
Sulfate	mg/L	8.567	--	--	< 0.50	U	0.50	1.0	< 0.50		0.50	1.0	**4.2**		0.50	1.0	**6.4**		0.50	1.0	**58.3**		0.50	1.0	**144**		1.5	3.0	**435**		4.0	8.0
Total Dissolved Solids	mg/L	450	--	--	**395**		25.0	25.0	**145**		25.0	25.0	**80.0**		25.0	25.0	**128**		25.0	25.0	**172**		25.0	25.0	**620**		125	125	**751**		25.0	25.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	<0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	17.8	17.8	17.8	**10.1**		0.087	1.0	**0.14**	J	0.087	1.0	**0.10**	J	0.087	1.0	**0.26**	J	0.087	1.0	**0.52**	J	0.087	1.0	**0.96**	J	0.087	1.0	**0.91**	J	0.087	1.0
Barium	ug/L	318	2,000	2,000	**259**		3.5	5.0	**59.3**		3.5	5.0	**27.8**		3.5	5.0	**35.2**		3.5	5.0	**26.8**		3.5	5.0	**29.8**		3.5	5.0	**19.2**		3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	<0.70	U	0.70	1.0	**1.0**		0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	--	--	**0.44**	J	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	<0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	5	5	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	6.90	6.9	6.9	**2.4**		0.050	1.0	< 0.050	U	0.050	1.0	**0.082**	J	0.050	1.0	**0.16**	J	0.050	1.0	**15.6**		0.050	1.0	**0.18**	J	0.050	1.0	**85.0**		0.050	1.0
Fluoride	mg/L	0.313	4	4	**0.21**		0.050	0.10	**0.15**		0.050	0.10	**0.070**	J	0.050	0.10	**0.21**		0.050	0.10	**0.18**		0.050	0.10	**0.63**		0.050	0.10	**0.065**	J	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	**0.28**	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	< 0.12	U	0.12	1.0	< 0.75	U	0.75	1.0	< 0.29	U	0.29	1.0	< 0.45	U	0.45	1.0
Lithium	ug/L	QL (50)	40	QL (50)	< 0.50	U	0.50	2.5	**9.4**		0.50	2.5	**4.3**		0.50	2.5	**11.2**		0.50	2.5	**8.2**		0.50	2.5	**31.7**		0.50	2.5	**68.3**		0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.46**	J	0.13	1.0	< 0.13	U	0.13	1.0	< 0.13	U	0.13	1.0	**0.77**	J	0.13	1.0	**0.20**	J	0.13	1.0	**15.3**		0.13	1.0	**0.24**	J	0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	**0.27**	J	0.050	0.47	< 0.050	U	0.050	0.47	**0.29**	J	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.88	5	5	**0.526**	J	--	--	**0.650**	J	--	--	**0.781**	J	--	--	**0.909**	J	--	--	**7.98**		--	--	**1.03**	J	--	--	**3.77**	J+	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	761		0.1	0.1	235.6		0.1	0.1	120.1		0.1	0.1	200.6		0.1	0.1	224.3		0.1	0.1	1157		0.1	0.1	802		0.1	0.1
Depth to Water*	ft btoc	--	--	--	7.33		0.01	0.01	4.05		0.01	0.01	50.96		0.01	0.01	55.28		0.01	0.01	8.95		0.01	0.01	15.80		0.01	0.01	13.28		0.01	0.01
Dissolved Oxygen	mg/L	--	--	--	0.99		0.01	0.01	0.28		0.01	0.01	8.02		0.01	0.01	1.17		0.01	0.01	0.69		0.01	0.01	0.90		0.01	0.01	0.84		0.01	0.01
Groundwater Elevation*	ft msl	--	--	--	-0.20		0.01	0.01	2.89		0.01	0.01	6.85		0.01	0.01	2.47		0.01	0.01	2.43		0.01	0.01	1.12		0.01	0.01	5.17		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-37.0		0.1	0.1	-18.9		0.1	0.1	175.5		0.1	0.1	21.0		0.1	0.1	251.3		0.1	0.1	-104.4		0.1	0.1	233.0		0.1	0.1
Temperature	C	--	--	--	18.7		0.01	0.01	19.5		0.01	0.01	17.0		0.01	0.01	18.2		0.01	0.01	17.8		0.01	0.01	17.2		0.01	0.01	17.0		0.01	0.01
Turbidity	ntu	--	--	--	24.10		0.1	0.1	6.19		0.1	0.1	4.70		0.1	0.1	8.53		0.1	0.1	8.76		0.1	0.1	9.18		0.1	0.1	9.56		0.1	0.1

					Downgradient Wells																								Field Quality Control Samples			
				Sample ID:	MW-6				MW-6D				MW-7				MW-10				MW-14				MW-16D				MW-3D Duplicate			
				Sample Date:	10/6/2022				10/6/2022				10/5/2022				10/5/2022				10/5/2022				10/5/2022				10/6/2022			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	150	--	--	**1310**		32.4	50.0	**1810**		32.4	50.0	< 32.4	U	32.4	50.0	**264**		32.4	50.0	< 32.4	U	32.4	50.0	**322**		32.4	50.0	**2100**		32.4	50.0
Calcium	ug/L	63,900	--	--	**64400**		94.2	100	**157000**		471	500	**11800**		94.2	100	**40900**		94.2	100	**2850**		94.2	100	**43600**		94.2	100	**7540**		94.2	100
Chloride	mg/L	46	--	--	**4.9**		0.60	1.0	**6.5**		0.60	1.0	**9.7**		0.60	1.0	**15.1**		0.60	1.0	**1.3**		0.60	1.0	**43.3**		0.60	1.0	**33.8**		0.60	1.0
Fluoride	mg/L	0.313	4	4	**0.091**	J	0.050	0.10	**0.14**		0.050	0.10	**0.14**		0.050	0.10	**0.16**		0.050	0.10	**0.12**		0.050	0.10	**0.11**		0.050	0.10	**0.63**		0.050	0.10
pH	SU	5.16-6.92	--	--	5.77		0.01	0.01	5.71		0.01	0.01	5.70		0.01	0.01	6.18		0.01	0.01	6.25		0.01	0.01	6.41		0.01	0.01	--		0.01	0.01
Sulfate	mg/L	8.567	--	--	**551**		5.5	11.0	**702**		7.0	14.0	**45.4**		0.50	1.0	**38.9**		0.50	1.0	**8.0**		0.50	1.0	**108**		1.0	2.0	**145**		1.5	3.0
Total Dissolved Solids	mg/L	450	--	--	**870**		250	250	**1120**		250	250	**177**		25.0	25.0	**310**		25.0	25.0	**95.0**		25.0	25.0	**296**		25.0	25.0	**710**		125	125
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	17.8	17.8	17.8	**0.089**	J	0.087	1.0	**0.46**	J	0.087	1.0	**0.82**	J	0.087	1.0	**6.3**		0.087	1.0	**0.53**	J	0.087	1.0	**0.34**	J	0.087	1.0	**0.92**	J	0.087	1.0
Barium	ug/L	318	2,000	2,000	**28.2**		3.5	5.0	**18.0**		3.5	5.0	**67.9**		3.5	5.0	**178**		3.5	5.0	**10**		3.5	5.0	**31.4**		3.5	5.0	**30.7**		3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	<0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	5	5	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	<0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	--	--	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	6.90	6.9	6.9	**0.35**	J	0.050	1.0	**153**		0.050	1.0	**6.3**		0.050	1.0	**11.4**		0.050	1.0	**0.35**	J	0.050	1.0	**2.4**		0.050	1.0	**0.15**	J	0.050	1.0
Fluoride	mg/L	0.313	4	4	**0.091**	J	0.050	0.10	**0.14**		0.050	0.10	**0.14**		0.050	0.10	**0.16**		0.050	0.10	**0.12**		0.050	0.10	**0.11**		0.050	0.10	**0.63**		0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	< 0.077	U	0.077	1.0	< 0.60	U	0.60	1.0	< 0.077	U	0.077	1.0	<0.077	U	0.077	1.0	< 0.23	U	0.23	1.0	< 0.077	U	0.077	1.0	< 0.34	U	0.34	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**159**		0.50	2.5	**216**		0.50	2.5	**10.1**		0.50	2.5	**1.3**	J	0.50	2.5	**7.4**		0.50	2.5	**17.2**		0.50	2.5	**30.1**		0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.19**	J	0.13	0.50	**1.5**		0.13	1.0	**0.46**	J	0.13	1.0	**4.0**		0.13	1.0	**0.14**	J	0.13	1.0	**0.55**	J	0.13	1.0	**14.2**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	**0.24**	J	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.88	5	5	**1.83**	J	--	--	**3.80**	J+	--	--	**0.805**	J	--	--	**1.12**	J	--	--	0.464	U	--	--	**0.750**	J	--	--	0.196	UJ	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	1402		0.1	0.1	1564		0.1	0.1	239.9		0.1	0.1	536		0.1	0.1	79.6		0.1	0.1	525		0.1	0.1	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.80		0.01	0.01	0.42		0.01	0.01	1.70		0.01	0.01	1.87		0.01	0.01	0.65		0.01	0.01	0.06		0.01	0.01	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	39.5		0.1	0.1	104.8		0.1	0.1	90.4		0.1	0.1	2.2		0.1	0.1	45.8		0.1	0.1	49.5		0.1	0.1	--		--	--
Temperature	C	--	--	--	17.8		0.01	0.01	19.0		0.01	0.01	17.5		0.01	0.01	18.3		0.01	0.01	16.5		0.01	0.01	16.9		0.01	0.01	--		--	--
Turbidity	ntu	--	--	--	6.42		0.1	0.1	9.84		0.1	0.1	4.66		0.1	0.1	20.80		0.1	0.1	9.59		0.1	0.1	9.56		0.1	0.1	--		--	--

Notes:

C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.
UJ= The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise

Table 3
Summary of 2022 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Potomac Aquifer
Chesterfield Power Station, Upper Ash Pond

					Field Quality Control Samples			
				Sample ID:	Field Blank			
				Sample Date:	10/5/2022			
Parameter Name	**Unit**	**CCR Site-Specific BKG**	**Federal CCR GWPS**	**Virginia CCR GWPS**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents								
Boron	ug/L	150	--	--	< 32.4	U	32.4	50.0
Calcium	ug/L	63,900	--	--	< 94.2	U	94.2	100
Chloride	mg/L	46	--	--	< 0.60	U	0.60	1.0
Fluoride	mg/L	0.313	4	4	< 0.050	U	0.050	0.10
pH	SU	5.16-6.92	--	--	--		0.01	0.01
Sulfate	mg/L	8.567	--	--	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	< 25.0	U	25.0	25.0
CCR Appendix IV Constituents								
Antimony	ug/L	QL (5)	--	--	< 0.20	U	0.20	1.0
Arsenic	ug/L	17.8	17.8	17.8	< 0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	< 3.5	U	3.5	5.0
Beryllium	ug/L	QL (1)	4	4	< 0.70	U	0.70	1.0
Cadmium	ug/L	QL (1)	5	5	< 0.40	U	0.40	1.0
Chromium	ug/L	QL (5)	--	--	< 3.7	U	3.7	5.0
Cobalt	ug/L	6.90	6.9	6.9	< 0.050	U	0.050	1.0
Fluoride	mg/L	0.313	4	4	< 0.050	U	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	**0.31**	J	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	< 0.50	U	0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	< 0.13	U	0.13	1.0
Selenium	ug/L	QL (5)	50	50	< 4.7	U	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47
Radium (226 and 228 combined)	pCi/L	1.88	5	5	0.000	U	--	--
Field Parameters								
Conductivity	uS/cm	--	--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	--		--	--
Temperature	C	--	--	--	--		--	--
Turbidity	ntu	--	--	--	--		--	--

Notes:

C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.
UJ= The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise

Table 4
Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

Sample ID:					Upgradient Wells								Downgradient Wells															
					MW-29U				MW-35S				MW-1				MW-2				MW-3				MW-5				MW-8R			
Sample Date:					04/12/2023				04/12/2023				04/13/2023				04/13/2023				04/13/2023				04/13/2023				04/14/2023			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	QL (50)	--	--	<12.4	U	12.4	50.0	<12.4	U	12.4	50.0	**3020**		12.4	50.0	**1340**		12.4	50.0	**862**		12.4	50.0	**1530**		12.4	50.0	**1260**		12.4	50.0
Calcium	ug/L	63,900	--	--	**54000**		190	500	**6000**		190	500	**173000**		190	500	**33600**		190	500	**70900**		190	500	**103000**		190	500	**90900**		190	500
Chloride	mg/L	46	--	--	**13.1**		0.60	1.0	**11.5**		0.60	1.0	**182**		2.4	4.0	**17.9**		0.60	1.0	**7.2**		0.60	1.0	**5.7**		0.60	1.0	**10.1**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.079**	J	0.050	0.10	**0.19**		0.050	0.10	**0.19**		0.050	0.10	**1.2**		0.050	0.10	**0.070**	J	0.050	0.10	**0.29**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.23		0.01	0.01	5.55		0.01	0.01	6.40		0.01	0.01	5.40		0.01	0.01	6.64		0.01	0.01	4.98		0.01	0.01	6.36		0.01	0.01
Sulfate	mg/L	9.16	--	--	**1.1**		0.50	1.0	**4.4**		0.50	1.0	**182**		2.0	4.0	**98.7**		0.50	1.0	**47.4**		0.50	1.0	**547**		6.0	12.0	**146**		1.5	3.0
Total Dissolved Solids	mg/L	450	--	--	**358**		25.0	25.0	**99.0**		25.0	25.0	**1070**		50.0	50.0	**294**		25.0	25.0	**318**		25.0	25.0	**908**		25.0	25.0	**585**		25.0	25.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	<0.20	U	1.0	5.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	**13.7**		0.43	5.0	<0.087	U	0.087	1.0	**0.22**	J	0.087	1.0	**0.39**	J	0.087	1.0	**0.37**	J	0.087	1.0	**0.53**	J	0.087	1.0	**16.4**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**348**		0.84	10.0	**31.2**		0.84	10.0	**158**		0.84	10.0	**109**		0.84	10.0	**151**		0.84	10.0	**14.0**		0.84	10.0	**227**		0.84	10.0
Beryllium	ug/L	QL (1)	4	4	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	**0.52**	J	0.17	4.0	<0.17	U	0.17	4.0	**0.24**	J	0.17	4.0	**0.17**	J	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	**1.0**		0.33	1.0
Chromium	ug/L	QL (5)	100	100	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**2.5**	J	0.25	5.0	**0.12**	J	0.050	1.0	**4.3**		0.050	1.0	**13.1**		0.050	1.0	**7.7**		0.050	1.0	**26.1**		0.050	1.0	**1.4**		0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.079**	J	0.050	0.10	**0.19**		0.050	0.10	**0.19**		0.050	0.10	**1.2**		0.050	0.10	**0.070**	J	0.050	0.10	**0.29**		0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	<0.38	U	0.38	5.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	**0.67**	J	0.077	1.0	<0.077	U	0.077	1.0	**0.083**	J	0.077	1.0	**0.12**	J	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	<2.5	U	2.5	12.5	**4.1**		0.50	2.5	<0.50	U	0.50	2.5	**5.2**		0.50	2.5	**19.2**		0.50	2.5	**47.4**		0.50	2.5	<0.50	U	0.50	2.5
Mercury	ug/L	QL (0.2)	--	--	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.74**	J	0.63	5.0	**0.13**	J	0.13	1.0	**0.41**	J	0.13	1.0	<0.13	U	0.13	1.0	**39.9**		0.13	1.0	<0.13	U	0.13	1.0	**3.9**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	**4.7**	J	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0
Thallium	ug/L	QL (1)	2	2	<0.25	U	0.25	1.0	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	**0.17**	J	0.050	0.20	**0.075**	J	0.050	0.20	<0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	1.55	5	5	**1.91**	J	--	--	**1.17**	J	--	--	**6.00**	J-	--	--	**8.72**	J	--	--	1.68	U	--	--	1.05	U	--	--	0.972	U		
Field Parameters																																
Conductivity	uS/cm	--	--	--	732		0.1	0.1	123.4		0.1	0.1	1347		0.1	0.1	428.6		0.1	0.1	528		0.1	0.1	1142		0.1	0.1	917		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.62		0.01	0.01	8.56		0.01	0.01	0.72		0.01	0.01	0.33		0.01	0.01	0.50		0.01	0.01	0.70		0.01	0.01	0.59		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-106.6		0.1	0.1	209.5		0.1	0.1	138.8		0.1	0.1	103.3		0.1	0.1	-3.4		0.1	0.1	231.3		0.1	0.1	-69.3		0.1	0.1
Temperature	C	--	--	--	15.5		0.01	0.01	17.0		0.01	0.01	14.7		0.01	0.01	16.9		0.01	0.01	17.6		0.01	0.01	16.4		0.01	0.01	17.5		0.01	0.01
Turbidity	ntu	--	--	--	15.46		0.1	0.1	1.99		0.1	0.1	0.09		0.1	0.1	6.19		0.1	0.1	3.17		0.1	0.1	7.21		0.1	0.1	8.79		0.1	0.1

Sample ID:					Downgradient Wells																											
					MW-9R				MW-11				MW-12				MW-13				MW-15				MW-16				MW-17S			
Sample Date:					04/12/2023				04/13/2023				04/13/2023				04/12/2023				04/12/2023				04/12/2023				04/13/2023			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	QL (50)	--	--	**189**		12.4	50.0	**1190**		12.4	50.0	**1490**		12.4	50.0	**1850**		12.4	50.0	**466**		12.4	50.0	**4170**		12.4	50.0	**2380**		12.4	50.0
Calcium	ug/L	63,900	--	--	**41900**		190	500	**100000**		190	500	**136000**		190	500	**255000**		190	500	**81000**		190	500	**537000**		950	2500	**232000**		190	500
Chloride	mg/L	46	--	--	**9.2**		0.60	1.0	**8.8**		0.60	1.0	**15.2**		0.60	1.0	**54.8**		0.60	1.0	**80.9**		0.60	1.0	**377**		10.8	18.0	**92.1**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.18**		0.050	0.10	**0.17**		0.050	0.10	**0.17**		0.050	0.10	**0.20**		0.050	0.10	**0.089**	J	0.050	0.10	**0.38**		0.050	0.10	**0.31**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.13		0.01	0.01	6.53		0.01	0.01	6.30		0.01	0.01	5.90		0.01	0.01	5.64		0.01	0.01	6.59		0.01	0.01	**6.82**		0.01	0.01
Sulfate	mg/L	9.16	--	--	**43.2**		0.50	1.0	**50.2**		0.50	1.0	**221**		2.5	5.0	**1190**		11.0	22.0	**233**		2.0	4.0	**985**		9.0	18.0	**143**		1.5	3.0
Total Dissolved Solids	mg/L	450	--	--	**268**		25.0	25.0	**453**		25.0	25.0	**705**		25.0	25.0	**2160**		50.0	50.0	**641**		25.0	25.0	**2620**		50.0	50.0	**968**		50.0	50.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	**6.6**		0.087	1.0	**9.1**		0.087	1.0	**8.4**		0.087	1.0	**125**		0.087	1.0	<0.087	U	0.087	1.0	<0.087	U	0.087	1.0	**17.5**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**127**		0.84	10.0	**163**		0.84	10.0	**62.6**		0.84	10.0	**27.5**		0.84	10.0	**51.4**		0.84	10.0	**31.4**		0.84	10.0	**132**		0.84	10.0
Beryllium	ug/L	QL (1)	4	4	**0.17**	J	0.17	4.0	**0.17**	J	0.17	4.0	**0.19**	J	0.17	4.0	**28.7**		0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	**0.18**	J	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	**0.42**	J	0.33	1.0	**0.47**	J	0.33	1.0	**0.38**	J	0.33	1.0	**0.82**	J	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	**0.60**	J	0.33	1.0
Chromium	ug/L	QL (5)	100	100	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	**6.9**		1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**4.5**		0.050	1.0	**6.7**		0.050	1.0	**14.3**		0.050	1.0	**380**		0.25	5.0	**40.8**		0.050	1.0	**26.7**		0.050	1.0	**12.6**		0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.18**		0.050	0.10	**0.17**		0.050	0.10	**0.17**		0.050	0.10	**0.20**		0.050	0.10	**0.089**	J	0.050	0.10	**0.38**		0.050	0.10	**0.31**		0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	**0.32**	J	0.077	1.0	<0.077	U	0.077	1.0	**0.094**	J	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**1.1**	J	0.50	2.5	**0.51**	J	0.50	2.5	**0.80**	J	0.50	2.5	**143**		0.50	2.5	**22.6**		0.50	2.5	**149**		0.50	2.5	<0.50	U	0.50	2.5
Mercury	ug/L	QL (0.2)	--	--	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.46**	J	0.13	1.0	**1.5**		0.13	1.0	**1.1**		0.13	1.0	**6.1**		0.13	1.0	**0.23**	J	0.13	1.0	**11.5**		0.13	1.0	**13.8**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	**16.1**		3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0
Thallium	ug/L	QL (1)	2	2	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	**0.40**		0.050	0.20	**0.19**	J	0.050	0.20	**0.54**		0.050	0.20	**0.37**		0.050	0.20
Radium (226 and 228 combined)	pCi/L	1.55	5	5	**0.938**	J	--	--	**1.76**	J	--	--	0.408	U	--	--	**1.55**	J	--	--	**2.66**		--	--	**3.12**	J	--	--	**2.92**	J		
Field Parameters																																
Conductivity	uS/cm	--	--	--	439.3		0.1	0.1	836		0.1	0.1	1091		0.1	0.1	2126		0.1	0.1	816		0.1	0.1	2756		0.1	0.1	999		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.96		0.01	0.01	0.75		0.01	0.01	0.81		0.01	0.01	0.73		0.01	0.01	0.38		0.01	0.01	0.20		0.01	0.01	1.70		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-13.2		0.1	0.1	-60.4		0.1	0.1	-33.6		0.1	0.1	48.0		0.1	0.1	114.7		0.1	0.1	97.8		0.1	0.1	-72.0		0.1	0.1
Temperature	C	--	--	--	18.8		0.01	0.01	18.8		0.01	0.01	18.8		0.01	0.01	16.7		0.01	0.01	17.2		0.01	0.01	16.5		0.01	0.01	15.9		0.01	0.01
Turbidity	ntu	--	--	--	3.28		0.1	0.1	7.21		0.1	0.1	17.93		0.1	0.1	9.61		0.1	0.1	4.53		0.1	0.1	4.75		0.1	0.1	2.17		0.1	0.1

Notes:
C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

= Concentration greater than site-specific background
= Concentration greater than Virginia GWPS and site background
= Concentration greater than Virginia and/or Federal GWPS and site background

Table 4
Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

Sample ID:					Downgradient Wells								Field Quality Control Samples											
					MW-B31 04/11/2023				MW-B32 04/11/2023				MW-15 Duplicate 04/12/2023				MW-17S Duplicate 04/13/2023				Field Blank 04/13/2023			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virgina CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																								
Boron	ug/L	QL (50)	--	--	<12.4	U	12.4	50.0	**2530**		12.4	50.0	**493**		12.4	50.0	**2420**		12.4	50.0	<12.4	U	12.4	50.0
Calcium	ug/L	63,900	--	--	**2970**		190	500	**235000**		190	500	**84300**		190	500	**236000**		190	500	<190	U	190	500
Chloride	mg/L	46	--	--	**3.3**		0.60	1.0	**105**		6.6	11.0	**81.3**		0.60	1.0	**92.6**		0.60	1.0	<0.60	U	0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.066**	J	0.050	0.10	**0.23**		0.050	0.10	**0.081**	J	0.050	0.10	**0.32**		0.050	0.10	<0.050	U	0.050	0.10
pH	SU	4.63-6.72	--	--	5.63		0.01	0.01	6.21		0.01	0.01	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	mg/L	9.16	--	--	**5.8**		0.50	1.0	**542**		5.5	11.0	**231**		2.0	4.0	**143**		1.5	3.0	<0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**56.0**		25.0	25.0	**1400**		50.0	50.0	**594**		25.0	25.0	**970**		50.0	50.0	<25.0	U	25.0	25.0
CCR Appendix IV Constituents																								
Antimony	ug/L	QL (5)	--	--	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	19.8	19.8	19.8	<0.087	U	0.087	1.0	**0.27**	J	0.087	1.0	<0.087	U	0.087	1.0	**16.8**		0.087	1.0	<0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	**13.8**		0.84	10.0	**38.2**		0.84	10.0	**52.4**		0.84	10.0	**135**		0.84	10.0	<0.84	U	0.84	10.0
Beryllium	ug/L	QL (1)	4	4	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	**0.17**	J	0.17	4.0	**0.18**	J	0.17	4.0	<0.17	U	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	**0.45**	J	0.33	1.0	<0.33	U	0.33	1.0
Chromium	ug/L	QL (5)	100	100	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0
Cobalt	ug/L	7.4	7.4	7.4	**0.10**	J	0.050	1.0	**5.9**		0.050	1.0	**39.8**		0.050	1.0	**12.8**		0.050	1.0	<0.050	U	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.066**	J	0.050	0.10	**0.23**		0.050	0.10	**0.081**	J	0.050	0.10	**0.32**		0.050	0.10	<0.050	U	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	<0.077	U	0.077	1.0	**0.22**	J	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**1.1**	J	0.50	2.5	**6.8**		0.50	2.5	**22.1**		0.50	2.5	<0.50	U	0.50	2.5	<0.50	U	0.50	2.5
Mercury	ug/L	QL (0.2)	--	--	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	<0.13	U	0.13	1.0	**0.20**	J	0.13	1.0	**0.16**	J	0.13	1.0	**13.7**		0.13	1.0	<0.13	U	0.13	1.0
Selenium	ug/L	QL (5)	50	50	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0
Thallium	ug/L	QL (1)	2	2	<0.050	U	0.050	0.20	**0.28**		0.050	0.20	**0.20**		0.050	0.20	**0.36**		0.050	0.20	<0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	1.55	5	5	0.399	U	--	--	**4.48**		--	--	**2.64**	J	--	--	1.12	U	--	--	**0.573**	J	--	--
Field Parameters																								
Conductivity	uS/cm	--	--	--	62.3		0.1	0.1	1618		0.1	0.1	--		--	--	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	5.03		0.01	0.01	0.88		0.01	0.01	--		--	--	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	182.3		0.1	0.1	136.0		0.1	0.1	--		--	--	--		--	--	--		--	--
Temperature	C	--	--	--	14.6		0.01	0.01	16.1		0.01	0.01	--		--	--	--		--	--	--		--	--
Turbidity	ntu	--	--	--	0.93		0.1	0.1	3.17		0.1	0.1	--		--	--	--		--	--	--		--	--

Notes:
C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

= Concentration greater than site-specific background
= Concentration greater than Virginia GWPS and site background
= Concentration greater than Virginia and/or Federal GWPS and site background

Table 5
Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data - Potomac Aquifer
Chesterfield Power Station, Upper Ash Pond

					Upgradient Wells																Downgradient Wells											
				Sample ID:	MW-29U				MW-30U				MW-35S				MW-35D				MW-1D				MW-3D				MW-4			
				Sample Date:	04/12/2023				04/12/2023				04/12/2023				04/12/2023				04/13/2023				04/13/2023				04/13/2023			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	150	--	--	<12.4	U	12.4	50.0	**130**		12.4	50.0	<12.4	U	12.4	50.0	**105**		12.4	50.0	**61.0**		12.4	50.0	**2280**		12.4	50.0	**1770**		12.4	50.0
Calcium	ug/L	63,900	--	--	**54000**		190	500	**8090**		190	500	**6000**		190	500	**8320**		190	500	**13300**		190	500	**7060**		190	500	**82400**		190	500
Chloride	mg/L	46	--	--	**13.1**		0.60	1.0	**7.3**		0.60	1.0	**11.5**		0.60	1.0	**9.9**		0.60	1.0	**21.5**		0.60	1.0	**33.5**		0.60	1.0	**2.2**		0.60	1.0
Fluoride	mg/L	0.313	4	4	**0.17**		0.050	0.10	**0.13**		0.050	0.10	**0.079**	J	0.050	0.10	**0.20**		0.050	0.10	**0.15**		0.050	0.10	**0.60**		0.050	0.10	**0.097**	J	0.050	0.10
pH	SU	5.16-6.92	--	--	6.23		0.01	0.01	6.60		0.01	0.01	5.55		0.01	0.01	6.64		0.01	0.01	**4.77**		0.01	0.01	**7.12**		0.01	0.01	5.44		0.01	0.01
Sulfate	mg/L	8.567	--	--	**1.1**		0.50	1.0	<0.50	U	0.50	1.0	**4.4**		0.50	1.0	**5.5**		0.50	1.0	**62.9**		0.50	1.0	**132**		1.5	3.0	**384**		4.0	8.0
Total Dissolved Solids	mg/L	450	--	--	**358**		25.0	25.0	**159**		25.0	25.0	**99.0**		25.0	25.0	**150**		25.0	25.0	**176**		25.0	25.0	**722**		25.0	25.0	**709**		25.0	25.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	<1.0	U	1.0	5.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	17.8	17.8	17.8	**13.7**		0.43	5.0	<0.087	U	0.087	1.0	<0.087	U	0.087	1.0	**0.090**	J	0.087	1.0	**0.46**	J	0.087	1.0	**0.68**	J	0.087	1.0	**0.34**	J	0.087	1.0
Barium	ug/L	318	2,000	2,000	**348**		0.84	10.0	**70.3**		0.84	10.0	**31.2**		0.84	10.0	**36.6**		0.84	10.0	**28.1**		0.84	10.0	**32.6**		0.84	10.0	**19.0**		0.84	10.0
Beryllium	ug/L	QL (1)	4	4	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	**1.4**	J	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0
Chromium	ug/L	QL (5)	--	--	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0
Cobalt	ug/L	6.90	6.9	6.9	**2.5**	J	0.25	5.0	**0.065**	J	0.050	1.0	**0.12**	J	0.050	1.0	**0.11**	J	0.050	1.0	**15.8**		0.050	1.0	**0.059**	J	0.050	1.0	**78.6**		0.050	1.0
Fluoride	mg/L	0.313	4	4	**0.17**		0.050	0.10	**0.13**		0.050	0.10	**0.079**	J	0.050	0.10	**0.20**		0.050	0.10	**0.15**		0.050	0.10	**0.60**		0.050	0.10	**0.097**	J	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	<0.38	U	0.38	5.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	**0.66**	J	0.077	1.0	<0.077	U	0.077	1.0	**0.18**	J	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	<2.5	U	2.5	12.5	**10.1**		0.50	2.5	**4.1**		0.50	2.5	**11.3**		0.50	2.5	**8.8**		0.50	2.5	**30.5**		0.50	2.5	**72.2**		0.50	2.5
Mercury	ug/L	0.2	2	2	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.74**	J	0.63	5.0	<0.13	U	0.13	1.0	**0.13**	J	0.13	1.0	**0.55**	J	0.13	1.0	**0.25**	J	0.13	1.0	**13.4**		0.13	1.0	<0.13	U	0.13	1.0
Selenium	ug/L	QL (5)	50	50	**4.7**	J	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0
Thallium	ug/L	QL (1)	2	2	<0.25	U	0.25	1.0	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	**0.25**		0.050	0.20	<0.050	U	0.050	0.20	**0.25**		0.050	0.20
Radium (226 and 228 combined)	pCi/L	1.88	5	5	**1.91**	J			**1.74**	J			**1.17**	J			0.375	U			**9.07**	J			0.238	UJ			**1.69**	J		
Field Parameters																																
Conductivity	uS/cm	--	--	--	732		0.1	0.1	227.9		0.1	0.1	123.4		0.1	0.1	191.0		0.1	0.1	252.5		0.1	0.1	1112		0.1	0.1	926		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.62		0.01	0.01	0.69		0.01	0.01	8.56		0.01	0.01	1.47		0.01	0.01	0.88		0.01	0.01	0.58		0.01	0.01	0.21		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-106.6		0.1	0.1	-45.0		0.1	0.1	209.5		0.1	0.1	139.2		0.1	0.1	230.0		0.1	0.1	-39.7		0.1	0.1	225.1		0.1	0.1
Temperature	C	--	--	--	15.5		0.01	0.01	17.8		0.01	0.01	17.0		0.01	0.01	17.2		0.01	0.01	15.6		0.01	0.01	17.6		0.01	0.01	16.2		0.01	0.01
Turbidity	ntu	--	--	--	15.46		0.1	0.1	3.64		0.1	0.1	1.99		0.1	0.1	1.80		0.1	0.1	5.68		0.1	0.1	4.23		0.1	0.1	7.53		0.1	0.1

					Downgradient Wells																								Quality Control			
				Sample ID:	MW-6				MW-6D				MW-7				MW-10				MW-14				MW-16D				Field Blank			
				Sample Date:	04/13/2023				04/13/2023				04/14/2023				04/13/2023				04/12/2023				04/13/2023				04/13/2023			
Parameter Name	Unit	CCR Site-Specific BKG	Federal CCR GWPS	Virginia CCR GWPS	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																
Boron	ug/L	150	--	--	**1450**		12.4	50.0	**1960**		12.4	50.0	**41.4**	J	12.4	50.0	**265**		12.4	50.0	**36.1**	J	12.4	50.0	**340**		12.4	50.0	<12.4	U	12.4	50.0
Calcium	ug/L	63,900	--	--	**66500**		190	500	**85300**		190	500	**15000**		190	500	**42400**		190	500	**7120**		190	500	**44700**		190	500	<190	U	190	500
Chloride	mg/L	46	--	--	**5.1**		0.60	1.0	**5.4**		0.60	1.0	**9.7**		0.60	1.0	**16.2**		0.60	1.0	**1.6**		0.60	1.0	**40.8**		0.60	1.0	<0.60	U	0.60	1.0
Fluoride	mg/L	0.313	4	4	**0.097**	J	0.050	0.10	**0.18**		0.050	0.10	**0.15**		0.050	0.10	**0.20**		0.050	0.10	**0.097**	J	0.050	0.10	**0.12**		0.050	0.10	<0.050	U	0.050	0.10
pH	SU	5.16-6.92	--	--	5.84		0.01	0.01	6.40		0.01	0.01	5.80		0.01	0.01	6.13		0.01	0.01	6.34		0.01	0.01	6.24		0.01	0.01	--	--	--	--
Sulfate	mg/L	8.567	--	--	**501**		5.5	11.0	**649**		7.0	14.0	**57.9**		0.50	1.0	**43.8**		0.50	1.0	**15.1**		0.50	1.0	**99.0**		1.0	2.0	<0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**930**		25.0	25.0	**1260**		50.0	50.0	**203**		25.0	25.0	**313**		25.0	25.0	**109**		25.0	25.0	**314**		25.0	25.0	<25.0	U	25.0	25.0
CCR Appendix IV Constituents																																
Antimony	ug/L	QL (5)	--	--	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0	<0.20	U	0.20	1.0
Arsenic	ug/L	17.8	17.8	17.8	**0.13**	J	0.087	1.0	**0.52**	J	0.087	1.0	**0.70**	J	0.087	1.0	**6.1**		0.087	1.0	**0.14**	J	0.087	1.0	**0.15**	J	0.087	1.0	<0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	**28.8**		0.84	10.0	**22.6**		0.84	10.0	**79.3**		0.84	10.0	**187**		0.84	10.0	**19.0**		0.84	10.0	**21.6**		0.84	10.0	<0.84	U	0.84	10.0
Beryllium	ug/L	QL (1)	4	4	**0.19**	J	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	**0.20**	J	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0	<0.17	U	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	**0.74**	J	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0	<0.33	U	0.33	1.0
Chromium	ug/L	QL (5)	--	--	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0	<1.7	U	1.7	5.0
Cobalt	ug/L	6.90	6.9	6.9	**0.33**	J	0.050	1.0	**70.4**		0.050	1.0	**6.0**		0.050	1.0	**11.0**		0.050	1.0	**0.47**	J	0.050	1.0	**0.43**	J	0.050	1.0	<0.050	U	0.050	1.0
Fluoride	mg/L	0.313	4	4	**0.097**	J	0.050	0.10	**0.18**		0.050	0.10	**0.15**		0.050	0.10	**0.20**		0.050	0.10	**0.097**	J	0.050	0.10	**0.12**		0.050	0.10	<0.050	U	0.050	0.10
Lead	ug/L	QL (1)	15	QL (1)	<0.077	U	0.077	1.0	**0.54**	J	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**154**		0.50	2.5	**145**		0.50	2.5	**10.6**		0.50	2.5	**1.6**	J	0.50	2.5	**10.9**		0.50	2.5	**17.2**		0.50	2.5	<0.50	U	0.50	2.5
Mercury	ug/L	0.2	2	2	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20	<0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.18**	J	0.13	1.0	**1.8**		0.13	1.0	**0.34**	J	0.13	1.0	**4.6**		0.13	1.0	**0.14**	J	0.13	1.0	**0.27**	J	0.13	1.0	<0.13	U	0.13	1.0
Selenium	ug/L	QL (5)	50	50	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0	<3.9	U	3.9	15.0
Thallium	ug/L	QL (1)	2	2	<0.050	U	0.050	0.20	**0.081**	J	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20	<0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	1.88	5	5	1.08	U	--	--	1.69	U	--	--	**1.85**	J	--	--	0.492	U	--	--	0.652	U	--	--	0.766	U	--	--	**0.573**	J	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	1323		0.1	0.1	1827		0.1	0.1	240.0		0.1	0.1	542		0.1	0.1	146.9		0.1	0.1	498.4		0.1	0.1	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.99		0.01	0.01	0.96		0.01	0.01	0.90		0.01	0.01	0.90		0.01	0.01	0.58		0.01	0.01	1.53		0.01	0.01	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	76.4		0.1	0.1	63.4		0.1	0.1	82.4		0.1	0.1	-5.8		0.1	0.1	36.4		0.1	0.1	166.7		0.1	0.1	--		--	--
Temperature	C	--	--	--	18.9		0.01	0.01	19.3		0.01	0.01	17.5		0.01	0.01	18.9		0.01	0.01	16.7		0.01	0.01	16.4		0.01	0.01	--		--	--
Turbidity	ntu	--	--	--	7.33		0.1	0.1	12.52		0.1	0.1	5.95		0.1	0.1	26.77		0.1	0.1	3.89		0.1	0.1	2.71		0.1	0.1	--		--	--

Notes:

C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.
UJ= The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Table 6
Summary of 2023 1st Semi-Annual Verification Sampling
Chesterfield Power Station, Upper Ash Pond

					Downgradient Wells				Field Quality Control Samples							
				Sample ID:	MW-13				MW-13 Duplicate				Field Blank			
				Sample Date:	08/03/2023				08/03/2023				08/03/2023			
Parameter Name	**Unit**	**CCR Site-Specific BKG**	**Federal CCR GWPS**	**Virgina CCR GWPS**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix IV Constituents																
Beryllium	ug/L	QL (1)	4	4	<0.70	U	0.70	1.0	<0.70	U	0.70	1.0	<0.70	U	0.70	1.0
Field Parameters																
Conductivity	uS/cm	--	--	--	1731		0.1	0.1	--		--	--	--		--	--
Depth to Water*	ft btoc	--	--	--	11.68		0.01	0.01	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.99		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	21.0		0.1	0.1	--		--	--	--		--	--
Temperature	C	--	--	--	18.5		0.01	0.01	--		--	--	--		--	--
Turbidity	ntu	--	--	--	8.87		0.1	0.1	--		--	--	--		--	--

Notes:
C = Degrees Celsius
BKG = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standard
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
U = The analyte was not detected above the level of the sample reporting limit.

= Concentration greater than site-specific background

= Concentration greater than Virginia GWPS and site background

= Concentration greater than Virginia and/or Federal GWPS and site background

Table 7
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

		Upgradient Wells								Downgradient Wells																			
Sample ID:		MW-29U				MW-35S				MW-1				MW-2				MW-3				MW-5				MW-8R			
Sample Date:		10/11/2023				10/09/2023				10/11/2023				10/10/2023				10/10/2023				10/12/2023				10/11/2023			
Parameter Name	Unit	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																													
Boron	ug/L	< 32.4	U	32.4	50.0	< 32.4	U	32.4	50.0	**3490**		32.4	50.0	**1410**		32.4	50.0	**879**		32.4	50.0	**1620**		32.4	50.0	**1160**		32.4	50.0
Calcium	ug/L	**44000**		94.2	100	**5650**		94.2	100	**147000**		942	1000	**32700**		94.2	100	**72500**		94.2	100	**97800**		942	1000	**86500**		94.2	100
Chloride	mg/L	**14.9**		0.60	1.0	**12.5**		0.60	1.0	**152**		1.8	3.0	**18.0**		0.60	1.0	**7.3**		0.60	1.0	**5.5**		0.60	1.0	**10.4**		0.60	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.059**	J	0.050	0.10	**0.12**		0.050	0.10	**0.13**		0.050	0.10	**0.98**		0.050	0.10	< 0.050	U	0.050	0.10	**0.22**		0.050	0.10
pH	SU	6.21		0.01	0.01	4.59		0.01	0.01	6.30		0.01	0.01	5.59		0.01	0.01	6.75		0.01	0.01	5.14		0.01	0.01	6.49		0.01	0.01
Sulfate	mg/L	< 0.50	U	0.50	1.0	**4.9**		0.50	1.0	**162**		1.5	3.0	**93.6**		1.0	2.0	**40.0**		0.50	1.0	**528**		6.0	12.0	**127**		1.5	3.0
Total Dissolved Solids	mg/L	**400**		25.0	25.0	**114**		25.0	25.0	**917**		25.0	25.0	**298**		25.0	25.0	**337**		25.0	25.0	**961**		25.0	25.0	**566**		25.0	25.0
CCR Appendix IV Constituents																													
Antimony	ug/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	**11.0**		0.087	1.0	**0.38**	J	0.087	1.0	**0.92**	J	0.087	1.0	**1.2**		0.087	1.0	**0.51**	J	0.087	1.0	**0.89**	J	0.087	1.0	**13.9**		0.087	1.0
Barium	ug/L	**249**		3.5	5.0	**33.3**		3.5	5.0	**140**		3.5	5.0	**136**		3.5	5.0	**167**		3.5	5.0	**14.4**		3.5	5.0	**221**		3.5	5.0
Beryllium	ug/L	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	**0.86**	J	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	**0.41**	J	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	**4.8**	J	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	**3.1**		0.050	1.0	**0.50**	J	0.050	1.0	**6.5**		0.050	1.0	**14.5**		0.050	1.0	**8.6**		0.050	1.0	**27.7**		0.050	1.0	**1.3**		0.050	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.059**	J	0.050	0.10	**0.12**		0.050	0.10	**0.13**		0.050	0.10	**0.98**		0.050	0.10	< 0.050	U	0.050	0.10	**0.22**		0.050	0.10
Lead	ug/L	**0.35**	J	0.077	1.0	**0.61**	J	0.077	1.0	< 0.077	U	0.077	1.0	**1.6**		0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	**0.62**	J	0.50	2.5	**3.6**		0.50	2.5	**0.52**	J	0.50	2.5	**5.9**	U	0.50	2.5	**23.3**		0.50	2.5	**48.0**		0.50	2.5	< 0.50	U	0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12		0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20
Molybdenum	ug/L	**0.50**	J	0.13	1.0	**0.74**	J	0.13	1.0	**0.36**	J	0.13	1.0	**0.13**	J	0.13	1.0	**37.5**		0.13	1.0	< 0.13	U	0.13	1.0	**3.7**		0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	**0.051**	J	0.050	0.20	**0.21**		0.050	0.20	**0.079**	J	0.050	0.20	< 0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	0.933	U	--	--	**1.80**		--	--	**8.05**	J-	--	--	**14.7**	J-	--	--	**1.63**	J	--	--	**4.35**		--	--	**1.41**	J	--	--
Field Parameters																													
Conductivity	uS/cm	843		0.1	0.1	123.3		0.1	0.1	1490		0.1	0.1	466.9		0.1	0.1	559		0.1	0.1	1243		0.1	0.1	977		0.1	0.1
Dissolved Oxygen	mg/L	0.16		0.01	0.01	5.56		0.01	0.01	0.68		0.01	0.01	0.42		0.01	0.01	0.64		0.01	0.01	0.20		0.01	0.01	0.34		0.01	0.01
Oxidation Reduction Potential	millivolts	-82.3		0.1	0.1	389.7		0.1	0.1	113.1		0.1	0.1	183.9		0.1	0.1	112.3		0.1	0.1	198.6		0.1	0.1	-86.6		0.1	0.1
Temperature	C	19.5		0.01	0.01	18.7		0.01	0.01	17.0		0.01	0.01	19.3		0.01	0.01	19.5		0.01	0.01	17.2		0.01	0.01	17.8		0.01	0.01
Turbidity	ntu	21.6		0.1	0.1	45.3		0.1	0.1	6.94		0.1	0.1	8.75		0.1	0.1	1.98		0.1	0.1	8.08		0.1	0.1	4.20		0.1	0.1

		Downgradient Wells																											
Sample ID:		MW-9R				MW-11				MW-12				MW-13				MW-15				MW-16				MW-17S			
Sample Date:		10/11/2023				10/12/2023				10/12/2023				10/12/2023				10/11/2023				10/11/2023				10/11/2023			
Parameter Name	Unit	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																													
Boron	ug/L	**169**		32.4	50.0	**1190**		32.4	50.0	**1540**		32.4	50.0	**1790**		32.4	50.0	**435**		32.4	50.0	**4220**		32.4	50.0	**2440**		32.4	50.0
Calcium	ug/L	**42000**		94.2	100	**98200**		94.2	100	**121000**		942	1000	**216000**		942	1000	**73200**		94.2	100	**440000**		942	1000	**221000**		942	1000
Chloride	mg/L	**9.4**		0.60	1.0	**8.9**		0.60	1.0	**14.4**		0.60	1.0	**50.7**		0.60	1.0	**93.9**		0.60	1.0	**347**		11.4	19.0	**97.6**		1.8	3.0
Fluoride	mg/L	**0.13**		0.050	0.10	**0.11**		0.050	0.10	**0.092**	J	0.050	0.10	**0.14**		0.050	0.10	**0.060**	J	0.050	0.10	**0.40**		0.050	0.10	**0.25**		0.050	0.10
pH	SU	6.16		0.01	0.01	6.54		0.01	0.01	6.35		0.01	0.01	5.77		0.01	0.01	5.62		0.01	0.01	6.55		0.01	0.01	6.74		0.01	0.01
Sulfate	mg/L	**36.9**		0.50	1.0	**45.5**		0.50	1.0	**212**		2.5	5.0	**946**		10.5	21.0	**224**		2.5	5.0	**958**		9.5	19.0	**146**		1.5	3.0
Total Dissolved Solids	mg/L	**254**		25.0	25.0	**449**		25.0	25.0	**726**		25.0	25.0	**1920**		50.0	50.0	**600**		25.0	25.0	**2650**	J	50.0	50.0	**958**		50.0	50.0
CCR Appendix IV Constituents																													
Antimony	ug/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	**5.7**		0.087	1.0	**9.1**		0.087	1.0	**8.4**		0.087	1.0	**92.7**		0.087	1.0	**0.22**	J	0.087	1.0	**0.25**	J	0.087	1.0	**24.1**		0.087	1.0
Barium	ug/L	**130**		3.5	5.0	**162**		3.5	5.0	**61.8**		3.5	5.0	**25.2**		3.5	5.0	**42.3**		3.5	5.0	**29.7**		3.5	5.0	**131**		3.5	5.0
Beryllium	ug/L	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	**5.0**		0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	**4.6**	J	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	**4.7**		0.050	1.0	**6.6**		0.050	1.0	**14.3**		0.050	1.0	**420**		0.25	5.0	**52.4**		0.050	1.0	**26.4**		0.050	1.0	**11.9**		0.050	1.0
Fluoride	mg/L	**0.13**		0.050	0.10	**0.11**		0.050	0.10	**0.092**	J	0.050	0.10	**0.14**		0.050	0.10	**0.060**	J	0.050	0.10	**0.40**		0.050	0.10	**0.25**		0.050	0.10
Lead	ug/L	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	**0.30**	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	**1.0**	J	0.50	2.5	< 0.50	U	0.50	2.5	**0.67**	J	0.50	2.5	**127**		0.50	2.5	**24.1**		0.50	2.5	**151**		0.50	2.5	< 0.50	U	0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20
Molybdenum	ug/L	**0.39**	J	0.13	1.0	**1.4**		0.13	1.0	**1.1**		0.13	1.0	**4.1**		0.13	1.0	**0.19**	J	0.13	1.0	**11.7**		0.13	1.0	**12.8**		0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	**0.41**		0.050	0.20	**0.21**		0.050	0.20	**0.55**		0.050	0.20	**0.40**		0.050	0.20
Radium (226 and 228 combined)	pCi/L	**1.16**	U	--	--	**1.48**		--	--	**1.36**	U	--	--	**1.46**	J-	--	--	**2.74**	J	--	--	**3.86**	J	--	--	**5.17**	J	--	--
Field Parameters																													
Conductivity	uS/cm	470.1		0.1	0.1	849		0.1	0.1	1127		0.1	0.1	2167		0.1	0.1	909		0.1	0.1	3322		0.1	0.1	1628		0.1	0.1
Dissolved Oxygen	mg/L	1.17		0.01	0.01	0.62		0.01	0.01	1.03		0.01	0.01	0.88		0.01	0.01	0.15		0.01	0.01	0.65		0.01	0.01	0.26		0.01	0.01
Oxidation Reduction Potential	millivolts	6.9		0.1	0.1	-58.8		0.1	0.1	-32.9		0.1	0.1	19.8		0.1	0.1	184.2		0.1	0.1	82.2		0.1	0.1	-93.7		0.1	0.1
Temperature	C	18.2		0.01	0.01	17.8		0.01	0.01	17.3		0.01	0.01	19.0		0.01	0.01	16.5		0.01	0.01	16.8		0.01	0.01	18.1		0.01	0.01
Turbidity	ntu	2.89		0.1	0.1	6.94		0.1	0.1	16.24		0.1	0.1	7.38		0.1	0.1	3.89		0.1	0.1	5.66		0.1	0.1	8.41		0.1	0.1

Notes:

C = Degrees Celsius
CCR = Coal Combustion Residuals
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

Table 7
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Columbia Aquifer
Chesterfield Power Station, Upper Ash Pond

		Downgradient Wells								Field Quality Control Samples							
Sample ID:		MW-B31				MW-B32				MW-15 Duplicate				Field Blank			
Sample Date:		10/09/2023				10/10/2023				10/11/2023				10/12/2023			
Parameter Name	Unit	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																	
Boron	ug/L	< 32.4	U	32.4	50.0	**2400**		32.4	50.0	**441**		32.4	50.0	< 32.4	U	32.4	50.0
Calcium	ug/L	**2710**		94.2	100	**3610**		94.2	100	**74600**		94.2	100	< 94.2	U	94.2	100
Chloride	mg/L	**3.8**		0.60	1.0	**100**		6.6	11.0	**94.1**		0.60	1.0	< 0.60	U	0.60	1.0
Fluoride	mg/L	**0.055**	J	0.050	0.10	**0.18**		0.050	0.10	**0.056**	J	0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	5.31		0.01	0.01	6.20		0.01	0.01	--		--	--	--		--	--
Sulfate	mg/L	**5.7**		0.50	1.0	**531**		5.5	11.0	**227**		2.5	5.0	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	**67.0**		25.0	25.0	**1330**		50.0	50.0	**619**		25.0	25.0	< 25.0	U	25.0	25.0
CCR Appendix IV Constituents																	
Antimony	ug/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	**0.13**	J	0.087	1.0	**0.47**	J	0.087	1.0	**0.22**	J	0.087	1.0	< 0.087	U	0.087	1.0
Barium	ug/L	**13.4**	U	3.5	5.0	**38.3**		3.5	5.0	**43.1**		3.5	5.0	< 3.5	U	3.5	5.0
Beryllium	ug/L	< 0.70		0.70	1.0	< 0.16	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	< 0.40	U	0.40	1.0	< 0.29	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0	< 0.63	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	**0.35**	J	0.050	1.0	**5.7**		0.050	1.0	**51.6**		0.050	1.0	< 0.050	U	0.050	1.0
Fluoride	mg/L	**0.055**	J	0.050	0.10	**0.18**		0.050	0.10	**0.056**	J	0.050	0.10	< 0.050	U	0.050	0.10
Lead	ug/L	**0.16**	J	0.077	1.0	**0.19**	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	**1.4**	J	0.50	2.5	**6.7**		0.50	2.5	**23.7**		0.50	2.5	< 0.50	U	0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20
Molybdenum	ug/L	**0.21**	J	0.13	1.0	0.31	U	0.13	1.0	**0.20**	J	0.13	1.0	< 0.13	U	0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0	< 4.1	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20	**0.29**		0.050	0.20	**0.21**		0.050	0.20	< 0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	**1.08**	J	--	--	**4.77**	J-	--	--	**2.84**	J	--	--	**0.617**	J	--	--
Field Parameters																	
Conductivity	uS/cm	62.5		0.1	0.1	1819		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	0.72		0.01	0.01	0.14		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	231.5		0.1	0.1	112.8		0.1	0.1	--		--	--	--		--	--
Temperature	C	17.3		0.01	0.01	16.9		0.01	0.01	--		--	--	--		--	--
Turbidity	ntu	9.56		0.1	0.1	9.63		0.1	0.1	--		--	--	--		--	--

Notes:

C = Degrees Celsius
CCR = Coal Combustion Residuals
MDL = Method Detection Limit
RL = Reporting Limit

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was not detected above the level of the sample reporting limit.

Table 8
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Potomac Aquifer
Chesterfield Power Station, Upper Ash Pond

		Upgradient Wells																Downgradient Wells											
Sample ID:		MW-29U				MW-30U				MW-35S				MW-35D				MW-1D				MW-3D				MW-4			
Sample Date:		10/11/2023				10/11/2023				10/09/2023				10/11/2023				10/11/2023				10/10/2023				10/11/2023			
Parameter Name	Unit	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																													
Boron	ug/L	< 32.4	U	32.4	50.0	**122**		32.4	50.0	< 32.4	U	32.4	50.0	**91.9**		32.4	50.0	< 32.4	U	32.4	50.0	**2410**		32.4	50.0	**1860**		32.4	50.0
Calcium	ug/L	**44000**		94.2	100	**7760**		94.2	100	**5650**		94.2	100	**7390**		94.2	100	**9030**		94.2	100	**7610**		94.2	100	**84900**		94.2	100
Chloride	mg/L	**14.9**		0.60	1.0	**7.8**		0.60	1.0	**12.5**		0.60	1.0	**10.8**		0.60	1.0	**20.3**		0.60	1.0	**32.5**		0.60	1.0	**2.1**		0.60	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.11**		0.050	0.10	**0.059**	J	0.050	0.10	**0.18**		0.050	0.10	**0.12**		0.050	0.10	**0.55**		0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	6.21		0.01	0.01	6.49		0.01	0.01	4.59		0.01	0.01	6.32		0.01	0.01	4.51		0.01	0.01	7.21		0.01	0.01	5.55		0.01	0.01
Sulfate	mg/L	< 0.50	U	0.50	1.0	< 0.50	U	0.50	1.0	**4.9**		0.50	1.0	**6.3**		0.50	1.0	**66.5**		0.50	1.0	**127**		1.5	3.0	**435**		4.5	9.0
Total Dissolved Solids	mg/L	**400**		25.0	25.0	**154**		25.0	25.0	**114**		25.0	25.0	**144**		25.0	25.0	**187**		25.0	25.0	**697**		25.0	25.0	**807**		25.0	25.0
CCR Appendix IV Constituents																													
Antimony	ug/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	**11.0**		0.087	1.0	**0.23**	J	0.087	1.0	**0.38**	J	0.087	1.0	**0.19**	J	0.087	1.0	**0.88**	J	0.087	1.0	**0.76**	J	0.087	1.0	**1.2**		0.087	1.0
Barium	ug/L	**249**		3.5	5.0	**67.4**		3.5	5.0	**33.3**		3.5	5.0	**30.6**		3.5	5.0	**26.3**		3.5	5.0	**32.5**		3.5	5.0	**19.0**		3.5	5.0
Beryllium	ug/L	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	**1.3**		0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	**0.86**	J	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	**3.1**		0.050	1.0	< 0.050	U	0.050	1.0	**0.50**	J	0.050	1.0	< 0.050	U	0.050	1.0	**17.5**		0.050	1.0	**0.080**	J	0.050	1.0	**92.3**		0.050	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.11**		0.050	0.10	**0.059**	J	0.050	0.10	**0.18**		0.050	0.10	**0.12**		0.050	0.10	**0.55**		0.050	0.10	< 0.050	U	0.050	0.10
Lead	ug/L	**0.35**	J	0.077	1.0	< 0.077	U	0.077	1.0	**0.61**	J	0.077	1.0	< 0.077	U	0.077	1.0	**1.3**		0.077	1.0	**0.13**	J	0.077	1.0	**0.57**	J	0.077	1.0
Lithium	ug/L	**0.62**	J	0.50	2.5	**11.0**		0.50	2.5	**3.6**		0.50	2.5	**11.7**		0.50	2.5	**9.3**		0.50	2.5	**33.9**		0.50	2.5	**86.3**		0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20	< 0.13	U	0.13	1.0	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20
Molybdenum	ug/L	**0.50**	J	0.13	1.0	< 0.12	U	0.12	0.20	**0.74**	J	0.13	1.0	**0.57**	J	0.13	1.0	**0.27**	J	0.13	1.0	**12.1**		0.13	1.0	< 0.13	U	0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	**0.28**		0.050	0.20	< 0.050	U	0.050	0.20	**0.28**		0.050	0.20
Radium (226 and 228 combined)	pCi/L	0.933	U	--	--	**0.550**	UJ	--	--	**1.80**		--	--	0.711	U	--	--	**11.5**	J	--	--	**1.30**	J	--	--	**3.89**	J	--	--
Field Parameters																													
Conductivity	uS/cm	843		0.1	0.1	233.2		0.1	0.1	123.3		0.1	0.1	196.2		0.1	0.1	249.6		0.1	0.1	1144		0.1	0.1	1064		0.1	0.1
Dissolved Oxygen	mg/L	0.16		0.01	0.01	0.26		0.01	0.01	5.56		0.01	0.01	2.25		0.01	0.01	0.15		0.01	0.01	0.52		0.01	0.01	0.73		0.01	0.01
Oxidation Reduction Potential	millivolts	-82.3		0.1	0.1	-50.1		0.1	0.1	389.7		0.1	0.1	119.8		0.1	0.1	245.6		0.1	0.1	-82.6		0.1	0.1	216.2		0.1	0.1
Temperature	C	19.5		0.01	0.01	18.1		0.01	0.01	18.7		0.01	0.01	18.2		0.01	0.01	16.8		0.01	0.01	18.5		0.01	0.01	17.4		0.01	0.01
Turbidity	ntu	21.6		0.1	0.1	4.90		0.1	0.1	45.3		0.1	0.1	1.80		0.1	0.1	13.09		0.1	0.1	2.70		0.1	0.1	8.57		0.1	0.1

		Downgradient Wells																						Field QC			
Sample ID:		MW-6				MW-6D				MW-7				MW-10				MW-14				MW-16D				MW-6 Duplicate			
Sample Date:		10/12/2023				10/12/2023				10/11/2023				10/11/2023				10/12/2023				10/12/2023				10/12/2023			
Parameter Name	Unit	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																											
Boron	ug/L	**1580**		32.4	50.0	**2020**		32.4	50.0	**48.3**	J	32.4	50.0	**264**		32.4	50.0	< 32.4	U	32.4	50.0	**280**		32.4	50.0	**1560**		32.4	50.0
Calcium	ug/L	**73900**		94.2	100	**71800**		471	500	**15000**		94.2	100	**42100**		94.2	100	**3080**		94.2	100	**35500**		94.2	100	**73200**		94.2	100
Chloride	mg/L	**5.0**		0.60	1.0	**5.8**		0.60	1.0	**9.1**		0.60	1.0	**15.1**		0.60	1.0	**1.0**		0.60	1.0	**38.5**		0.60	1.0	**5.0**		0.60	1.0
Fluoride	mg/L	< 0.050	U	0.050	0.10	**0.12**		0.050	0.10	**0.094**	J	0.050	0.10	**0.11**		0.050	0.10	**0.071**	J	0.050	0.10	**0.099**	J	0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	5.91		0.01	0.01	5.90		0.01	0.01	5.90		0.01	0.01	6.18		0.01	0.01	6.39		0.01	0.01	6.28		0.01	0.01	--	--	--	--
Sulfate	mg/L	**485**		5.5	11.0	**659**		7.0	14.0	**62.5**		0.50	1.0	**38.3**		0.50	1.0	**8.1**		0.50	1.0	**95.4**		1.0	2.0	**477**		5.5	11.0
Total Dissolved Solids	mg/L	**969**		25.0	25.0	**1190**		25.0	25.0	**196**		25.0	25.0	**288**		25.0	25.0	**82.0**		25.0	25.0	**314**		25.0	25.0	**977**		25.0	25.0
CCR Appendix IV Constituents																											
Antimony	ug/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0
Arsenic	ug/L	**0.088**	J	0.087	1.0	**0.51**	J	0.087	1.0	**0.65**	J	0.087	1.0	**5.8**		0.087	1.0	**0.25**	J	0.087	1.0	**0.11**	J	0.087	1.0	**0.091**	J	0.087	1.0
Barium	ug/L	**28.9**		3.5	5.0	**21.6**		3.5	5.0	**86.9**		3.5	5.0	**191**		3.5	5.0	**9.4**		3.5	5.0	**20.7**		3.5	5.0	**28.6**		3.5	5.0
Beryllium	ug/L	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0	< 0.70	U	0.70	1.0
Cadmium	ug/L	< 0.40	U	0.40	1.0	**0.55**	J	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0	< 0.40	U	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0	< 3.7	U	3.7	5.0
Cobalt	ug/L	**0.49**	J	0.050	1.0	**142**		0.050	1.0	**6.6**		0.050	1.0	<0.050		0.050	1.0	**0.20**	J	0.050	1.0	**0.44**	J	0.050	1.0	**0.50**	J	0.050	1.0
Fluoride	mg/L	< 0.050	U	0.050	0.10	**0.12**		0.050	0.10	**0.094**	J	0.050	0.10	**0.11**		0.050	0.10	**0.071**	J	0.050	0.10	**0.099**	J	0.050	0.10	< 0.050	U	0.050	0.10
Lead	ug/L	< 0.077	U	0.077	1.0	**0.63**	J	0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0	**0.088**		0.077	1.0	< 0.077	U	0.077	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	**165**		0.50	2.5	**199**		1.0	5.0	**11.5**		0.50	2.5	**1.3**	J	0.50	2.5	**7.2**	J	0.50	2.5	**17.3**		0.50	2.5	**163**		0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20	< 0.12	U	0.12	0.20
Molybdenum	ug/L	< 0.13	U	0.13	1.0	**1.5**		0.13	1.0	**0.37**	J	0.13	1.0	**3.1**		0.13	1.0	**0.13**	J	0.13	1.0	**0.29**	J	0.13	1.0	< 0.13	U	0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20	**0.20**		0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20	< 0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	**2.02**	J	--	--	**3.18**	J-	--	--	**1.62**	J	--	--	**0.903**	U	--	--	**0.585**	J	--	--	**1.63**	J-			**2.16**	J	--	--
Field Parameters																											
Conductivity	uS/cm	1427		0.1	0.1	1616		0.1	0.1	277.9		0.1	0.1	539		0.1	0.1	80.4		0.1	0.1	462.1		0.1	0.1	--		--	--
Dissolved Oxygen	mg/L	0.91		0.01	0.01	1.13		0.01	0.01	1.19		0.01	0.01	1.01		0.01	0.01	0.42		0.01	0.01	0.86		0.01	0.01	--		--	--
Oxidation Reduction Potential	millivolts	54.1		0.1	0.1	99.3		0.1	0.1	70.7		0.1	0.1	-2.8		0.1	0.1	35.3		0.1	0.1	124.4		0.1	0.1	--		--	--
Temperature	C	19.2		0.01	0.01	20.4		0.01	0.01	18.0		0.01	0.01	17.6		0.01	0.01	16.5		0.01	0.01	17.5		0.01	0.01	--		--	--
Turbidity	ntu	6.27		0.1	0.1	10.69		0.1	0.1	3.76		0.1	0.1	28.6		0.1	0.1	8.34		0.1	0.1	9.70		0.1	0.1	--		--	--

Notes:
C = Degrees Celsius
CCR = Coal Combustion Residuals
MDL = Method Detection Limit
RL = Reporting Limit

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
U = The analyte was not detected above the level of the sample reporting limit.

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

Table 8
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Potomac Aquifer
Chesterfield Power Station, Upper Ash Pond

		Field QC			
Sample ID:		Field Blank			
Sample Date:		10/12/2023			
Parameter Name	**Unit**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents					
Boron	ug/L	< 32.4	U	32.4	50.0
Calcium	ug/L	< 94.2	U	94.2	100
Chloride	mg/L	< 0.60	U	0.60	1.0
Fluoride	mg/L	< 0.050	U	0.050	0.10
pH	SU	--	--	--	--
Sulfate	mg/L	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	< 25.0	U	25.0	25.0
CCR Appendix IV Constituents					
Antimony	ug/L	< 0.20	U	0.20	1.0
Arsenic	ug/L	< 0.087	U	0.087	1.0
Barium	ug/L	< 3.5	U	3.5	5.0
Beryllium	ug/L	< 0.70	U	0.70	1.0
Cadmium	ug/L	< 0.40	U	0.40	1.0
Chromium	ug/L	< 3.7	U	3.7	5.0
Cobalt	ug/L	< 0.050	U	0.050	1.0
Fluoride	mg/L	< 0.050	U	0.050	0.10
Lead	ug/L	< 0.077	U	0.077	1.0
Lithium	ug/L	< 0.50	U	0.50	2.5
Mercury	ug/L	< 0.12	U	0.12	0.20
Molybdenum	ug/L	< 0.13	U	0.13	1.0
Selenium	ug/L	< 4.7	U	4.7	10.0
Thallium	ug/L	< 0.050	U	0.050	0.20
Radium (226 and 228 combined)	pCi/L	**0.617**	J	--	--
Field Parameters					
Conductivity	uS/cm	--		--	--
Dissolved Oxygen	mg/L	--		--	--
Oxidation Reduction Potential	millivolts	--		--	--
Temperature	C	--		--	--
Turbidity	ntu	--		--	--

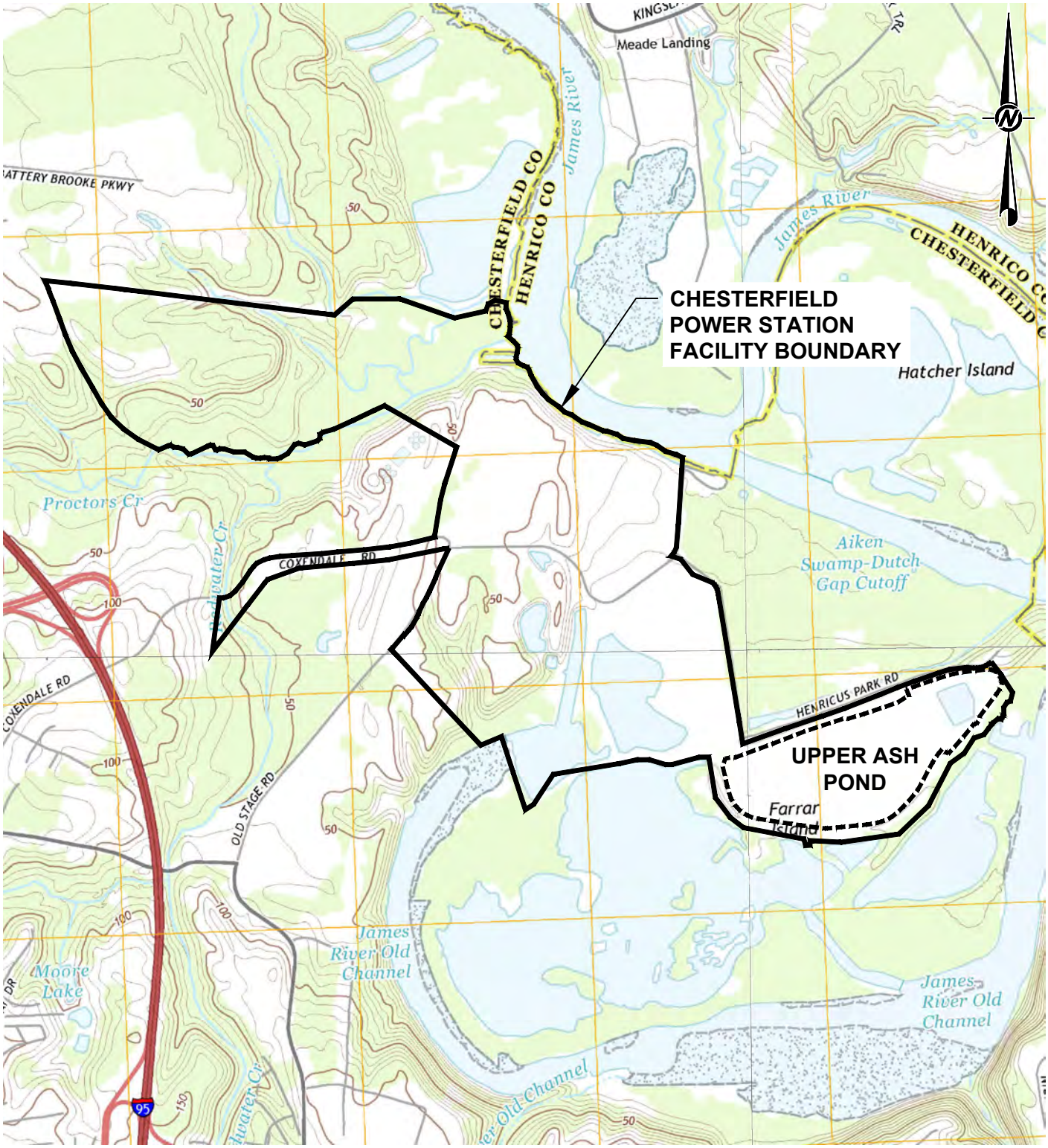
Notes:
C = Degrees Celsius
CCR = Coal Combustion Residuals
MDL = Method Detection Limit
RL = Reporting Limit

Common Qualifiers (Qual):
J = Quantitation is approximate due to limitations identified during data validation.
U = The analyte was not detected above the level of the sample reporting limit.

ug/L = Microgram per Liter
mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

mg/L = Milligram per liter
uS/cm = MicroSiemen per centimeter
ntu = Nephelometric turbidity unit
pCi/L = Picocurie per Liter
SU = Standard Unit
Bold font = Detected laboratory constituent

DRAWINGS



REFERENCE

BASE MAP CONSISTS OF 7.5-MINUTE USGS TOPOGRAPHIC QUADRANGLES NAMED HOPEWELL, CHESTER, DUTCH GAP, AND DREWRY'S BLUFF, VA, ALL DATED 2013.

2000 0 2000
SCALE FEET

CLIENT
DOMINION ENERGY

PROJECT
CHESTERFIELD POWER STATION
UPPER ASH POND

CONSULTANT
wsp

YYYY-MM-DD	2024-01-12
DESIGNED	ANG
PREPARED	SIB
REVIEWED	CS
APPROVED	MGW

TITLE
SITE LOCATION MAP

PROJECT NO. 31406066.007
REV. 0
FIGURE 1

Path: G:\Plan Production Data Files\Drawing Data Files\31406066\113_CPS\Active Drawings\31406066_113_01.dwg
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
0 1in

JAMES RIVER

MW-35S (6.82)

APPROX. LIMITS OF EX. RAIN COVER

LOWER ASH POND

MW-29U (2.42)

MW-12 (3.61)

MW-11I

MW-11 (4.72)

MW-9R (5.24)

MW-8R (5.74)

OW-6S (6.33)

MW-5 (5.76)

LINED STORMWATER POND

MW-3 (4.39)

MW-13 (1.10)

UPPER ASH POND

MW-B31 (4.41)

MW-2 (2.40)

MW-2I

TIDAL JAMES RIVER OLD CHANNEL

MW-15 (0.59)

MW-16 (1.87)

MW-B32 (1.48)

MW-17S (2.60)

MW-1 (2.41)

POND

$i\ gw_1 = 178'$

$i\ gw_3 = 238'$

LEGEND

	APPROXIMATE PROPERTY BOUNDARY
	FACILITY BOUNDARY
250	EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
	WETLANDS
RPA	RESOURCE PROTECTION AREA BOUNDARY
10	POTENTIOMETRIC SURFACE CONTOUR
	APPROXIMATE GROUNDWATER FLOW LINE
i gw = 178'	GROUNDWATER FLOW PATH LENGHT (FEET)
MW-2	EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
OW-6S	OBSERVATION WELL WITH STATIC WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
(6.33)	STATIC GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

NOTES

1. EXISTING CONDITIONS COMPILED BY TUCK MAPPING SOLUTIONS USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPHY DATED MAY 11, 2018.
2. APPROXIMATE LIMITS OF EXISTING RAIN COVER BASED ON DRAWING TITLED, "RECORD LAYOUT DRAWING PLAN," BY CHESAPEAKE CONTAINMENT SYSTEMS, INC., DATED NOVEMBER 6, 2019. EXISTING TOPOGRAPHY WITHIN LIMITS OF RAIN COVER BASED ON SURVEY PERFORMED BY McKIM & CREED, DATED NOVEMBER 6, 2019.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
4. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.

N

600 0 600 FEET

SCALE

YYYY-MM-DD 2024-01-12
DESIGNED MAW
PREPARED SIB
REVIEWED
APPROVED

CLIENT DOMINION ENERGY

CONSULTANT wsp

PROJECT CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
UPPER ASH POND

TITLE **GROUNDWATER POTENTIOMETRIC SURFACE MAP**
COLUMBIA AQUIFER
APRIL 10, 2023

PROJECT NO. 31406066.007

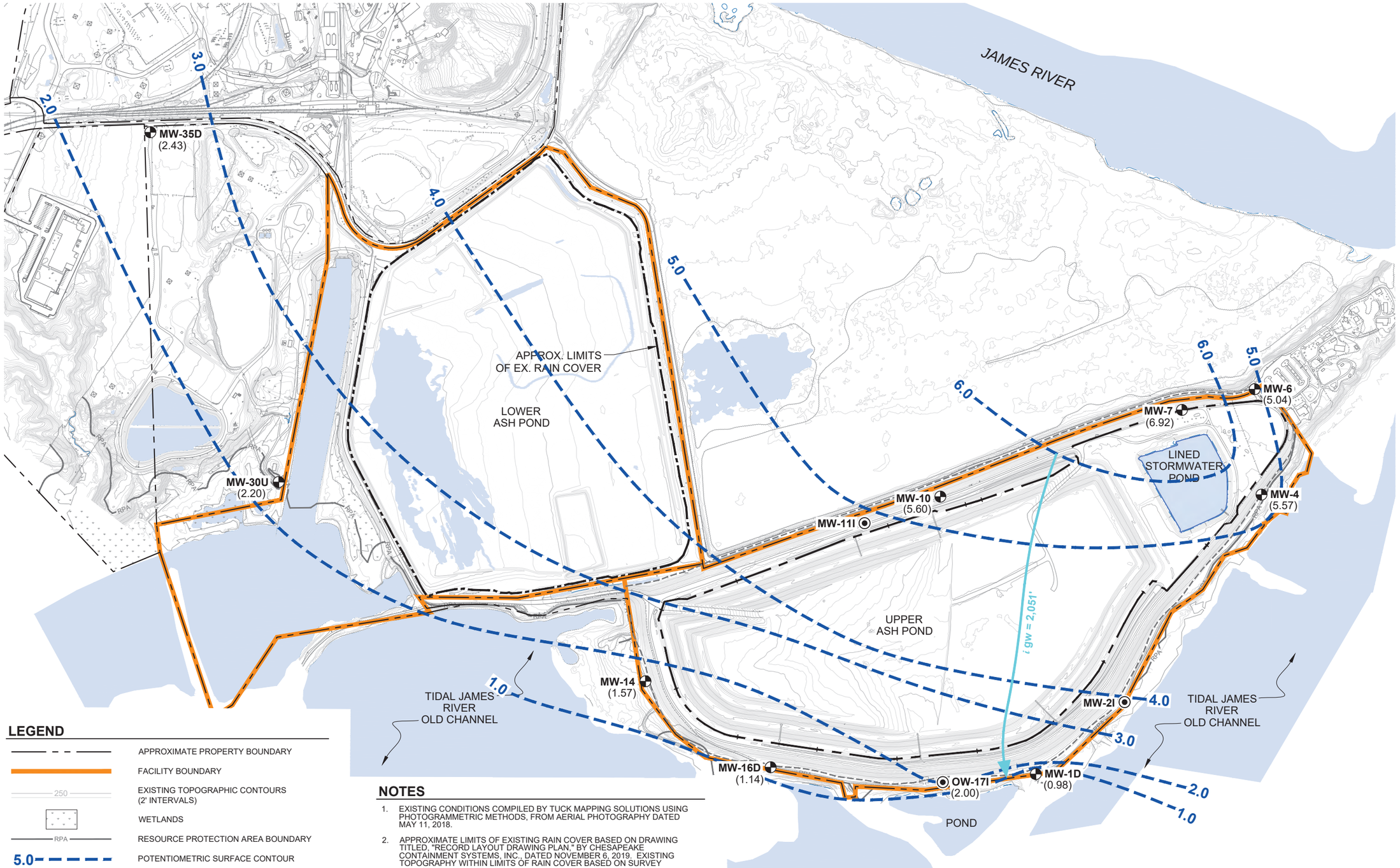
REV. 0

FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in 0

Path: G:\Plan Production Data Files\Drawing Data Files\31-406066\113_CPS\Active Drawings\314066066_113_02.dwg



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- FACILITY BOUNDARY
- 250 — EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
- WETLANDS
- RPA — RESOURCE PROTECTION AREA BOUNDARY
- 5.0 — POTENTIOMETRIC SURFACE CONTOUR
- APPROXIMATE GROUNDWATER FLOW LINE
- *i* gw = 2,051' — GROUNDWATER FLOW PATH LENGHT (FEET)
- MW-6 — EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- OW-17I — OBSERVATION WELL WITH STATIC WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (2.00) — STATIC GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

NOTES

1. EXISTING CONDITIONS COMPILED BY TUCK MAPPING SOLUTIONS USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPHY DATED MAY 11, 2018.
2. APPROXIMATE LIMITS OF EXISTING RAIN COVER BASED ON DRAWING TITLED, "RECORD LAYOUT DRAWING PLAN," BY CHESAPEAKE CONTAINMENT SYSTEMS, INC., DATED NOVEMBER 6, 2019. EXISTING TOPOGRAPHY WITHIN LIMITS OF RAIN COVER BASED ON SURVEY PERFORMED BY McKIM & CREED, DATED NOVEMBER 6, 2019.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
4. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
5. GROUNDWATER ELEVATION FOR MW-30U NOT USED FOR INTERPOLATION OF CONTOURS.

YYYY-MM-DD 2024-01-12
DESIGNED MAW
PREPARED SIB
REVIEWED
APPROVED

CLIENT
DOMINION ENERGY

CONSULTANT

PROJECT
CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
UPPER ASH POND

TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
POTOMAC AQUIFER
APRIL 10, 2023

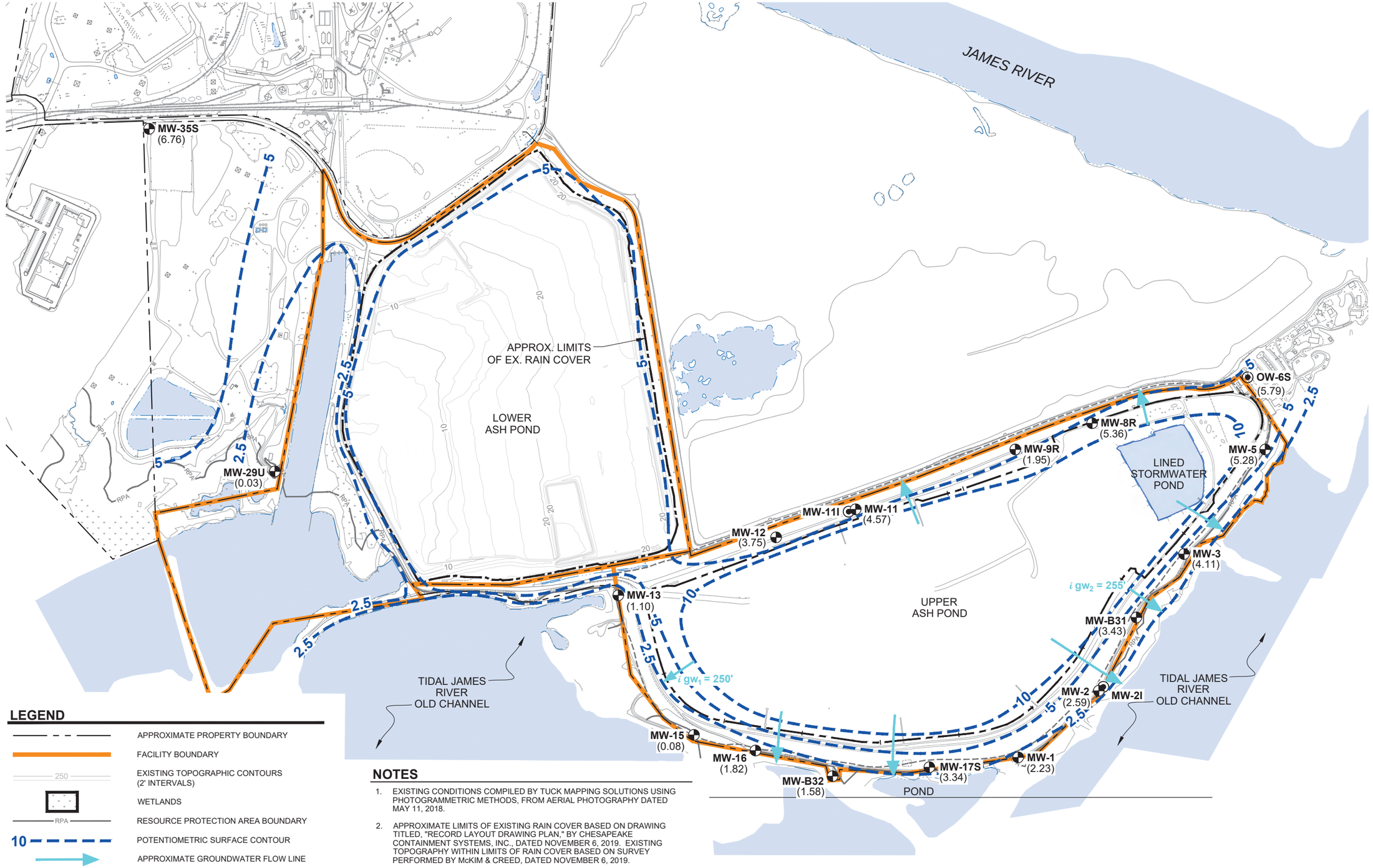
PROJECT NO.
31406066.007

REV.
0

FIGURE
3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
1in
0

Path: G:\Plan Production Data Files\Drawing Data Files\31-406066\113_CPS\Active Drawings\31406066_113_03.dwg



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- FACILITY BOUNDARY
- 250 — EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
- WETLANDS
- RPA — RESOURCE PROTECTION AREA BOUNDARY
- 10 — POTENTIOMETRIC SURFACE CONTOUR
- APPROXIMATE GROUNDWATER FLOW LINE
- *i* gw = 250' — GROUNDWATER FLOW PATH LENGHT (FEET)
- MW-2 — EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- OW-6S — OBSERVATION WELL WITH STATIC WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (5.79) — STATIC GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

NOTES

1. EXISTING CONDITIONS COMPILED BY TUCK MAPPING SOLUTIONS USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPHY DATED MAY 11, 2018.
2. APPROXIMATE LIMITS OF EXISTING RAIN COVER BASED ON DRAWING TITLED, "RECORD LAYOUT DRAWING PLAN," BY CHESAPEAKE CONTAINMENT SYSTEMS, INC., DATED NOVEMBER 6, 2019. EXISTING TOPOGRAPHY WITHIN LIMITS OF RAIN COVER BASED ON SURVEY PERFORMED BY McKIM & CREED, DATED NOVEMBER 6, 2019.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
4. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.

YYYY-MM-DD 2024-01-12
DESIGNED MAW
PREPARED SIB
REVIEWED
APPROVED

CLIENT
DOMINION ENERGY

CONSULTANT
WSP

PROJECT
CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
UPPER ASH POND

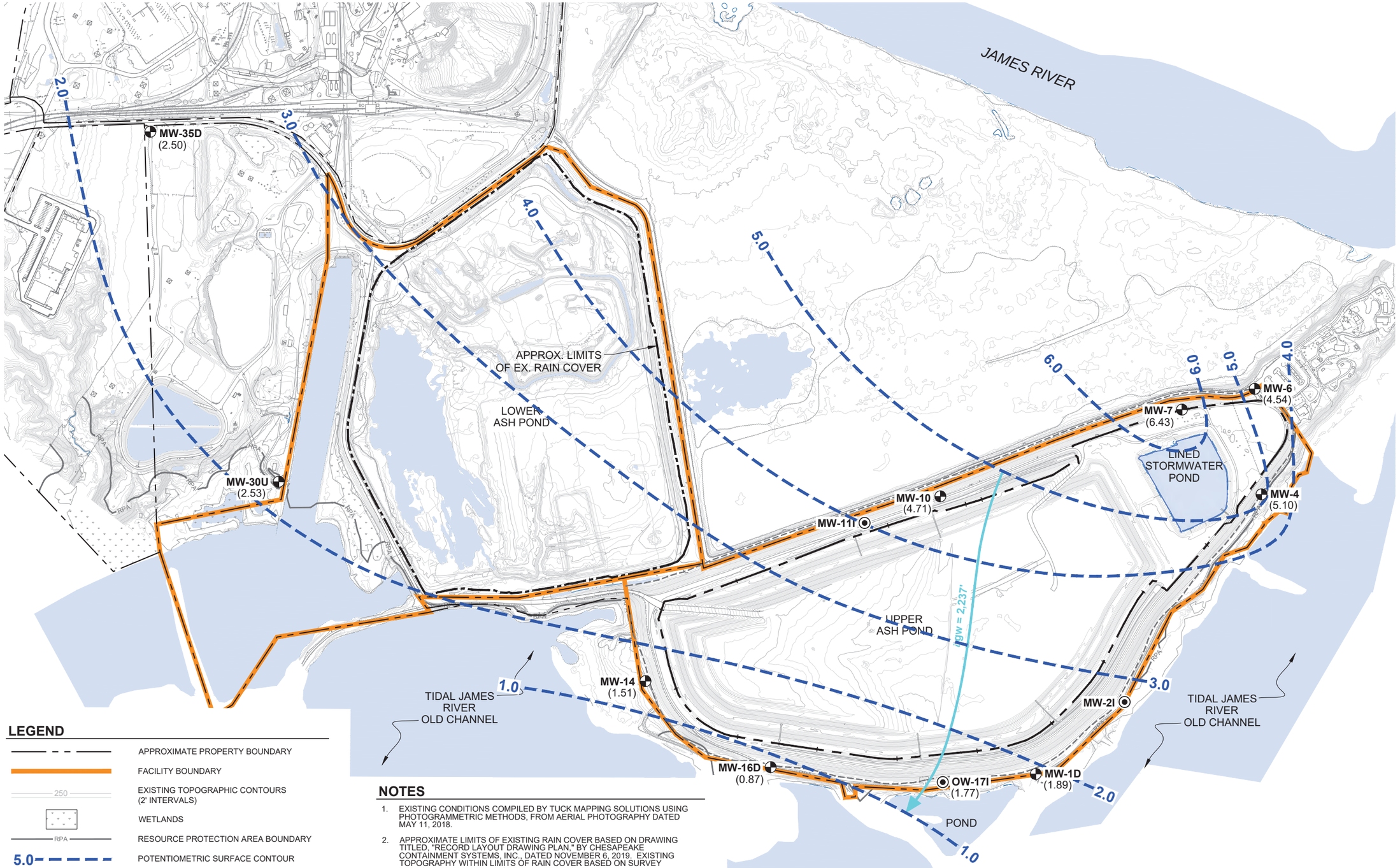
TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
COLUMBIA AQUIFER
OCTOBER 9, 2023

PROJECT NO.
31406066.007

REV. 0
FIGURE 4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Path: G:\Plan Production Data Files\Drawing Data Files\31406066\113_CPS\Active Drawings\31406066_113_04.dwg



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- FACILITY BOUNDARY
- 250 — EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
- WETLANDS
- RPA — RESOURCE PROTECTION AREA BOUNDARY
- 5.0 — POTENTIOMETRIC SURFACE CONTOUR
- APPROXIMATE GROUNDWATER FLOW LINE
- *i* gw = 2,237' — GROUNDWATER FLOW PATH LENGHT (FEET)
- MW-6 — EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- OW-17I — OBSERVATION WELL WITH STATIC WATER LEVEL ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (4.71) — STATIC GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

NOTES

1. EXISTING CONDITIONS COMPILED BY TUCK MAPPING SOLUTIONS USING PHOTOGRAMMETRIC METHODS, FROM AERIAL PHOTOGRAPHY DATED MAY 11, 2018.
2. APPROXIMATE LIMITS OF EXISTING RAIN COVER BASED ON DRAWING TITLED, "RECORD LAYOUT DRAWING PLAN," BY CHESAPEAKE CONTAINMENT SYSTEMS, INC., DATED NOVEMBER 6, 2019. EXISTING TOPOGRAPHY WITHIN LIMITS OF RAIN COVER BASED ON SURVEY PERFORMED BY McKIM & CREED, DATED NOVEMBER 6, 2019.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
4. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
5. GROUNDWATER ELEVATION FOR MW-30U NOT USED FOR INTERPOLATION OF CONTOURS.

600 0 600 FEET
SCALE

YYYY-MM-DD 2024-01-12
DESIGNED MAW
PREPARED SIB
REVIEWED
APPROVED

CLIENT
DOMINION ENERGY

CONSULTANT

PROJECT
CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
UPPER ASH POND

TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
POTOMAC AQUIFER
OCTOBER 9, 2023

PROJECT NO.
31406066.007

REV. 0

FIGURE 5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1in 0

Path: G:\Plan Production Data Files\Drawing Data Files\31-406066\113_CPS\Active Drawings\31406066_113_05.dwg

\

APPENDIX A

FIELD DATA SHEETS

APPENDIX A.1

FIELD DATA SHEETS
FIRST SEMI-ANNUAL GROUNDWATER MONITORING EVENT
(APRIL 2023)

GOLDER
MEMBER OF WSP

Date: 04/10/23

WELL GAUGING LOG

Project Name: CPS CCR UAP

Project No./Task No.: 31406066.007

Sampler(s): C. Megee, M. Kunz

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-1	CM	1308	9.17	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☐ No	☑ OK ☐ Damaged
MW-1D	CM	1307	10.40	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-2	CM	1301	8.40	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☐ No	☑ OK ☐ Damaged
MW-3	CM	1251	12.66	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-3D	~~CM~~	1250	16.97	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-4	CM	1245	12.88	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-5	CM	1241	16.35	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-6	~~MK~~	~~1312~~	~~39.20~~	—	☑ OK ☐ Damaged	☑ ~~Damaged~~	☑ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
MW-6D	MK	1347	34.30	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☑ OK ☐ Damaged
MW-7	CM	1440	36.53	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-8R	CM	1436	38.36	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☑ OK ☐ Damaged
MW-9R	CM	1433	39.40	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-10	CM	1430	38.00	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-11	CM	1425	39.15	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-12	CM	1423	40.45	—	☐ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☐ OK ☐ Damaged
MW-13	CM	1402	11.65	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☐ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-14	CM	1357	19.62	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☐ No	☑ OK ☐ Damaged

Observations/Notes: All water levels taken on 04/10/23

Signature: M. Kunz

Date: 04/18/23

QA/QC Signature:

Date: 4/20/23

GOLDER
MEMBER OF WSP

Date: 04/10/23

WELL GAUGING LOG

Project Name: CPS CCP UAP

Project No./Task No.: 31406066.007

Sampler(s): C. Megee, M. Knez

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-15	CM	1410	33.80	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-16	CM	1347	21.30	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-16D	CM	1346	21.95	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-17S	CM	1334	10.41	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-30D	MK	1425	15.25	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-35D	MK	1451	55.32	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-1331	CM	1256	8.40	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-1332	CM	1327	12.10	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-1DD	CM	1309	8.45	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-6S / OW-6	MK	1344	33.67	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-6DD	MK	1349	38.01	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-16DD	CM	1345	18.48	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-17I	CM	1336	10.74	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-17D	CM	1337	10.82	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-31D	MK	1430	2.00	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-35B	MK	1454	55.28	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: All water levels taken on 04/10/23

Signature: M. Knez

Date: 04/18/23

QA/QC Signature:

Date: 4/20/23

wsp

Date: 04/10/23

WELL GAUGING LOG

Project Name: CPS CCR LAP & UAP (UPGRADIENT)

Project No./Task No.: 31406066.007

Sampler(s): ~~E. Mercer~~ 4/10/23 M. Kratz

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-29U	MK	1437	4.71	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-35S	MK	1448	60.99	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: _____

Signature: M. Kratz

Date: 4/10/2023

QA/QC Signature: _____

Date: 4/17/2023

MICROPURGE SAMPLING LOG

Date: 4/13/23
Weather: sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 UAP CCR
Sampler(s): M. Knez
Well ID: MW-1
Field Calibration Completed: 4/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 8.95 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS 19E104904
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1028	6.33	1355	0.33	1.22	14.6	158.5	9.09	~300
1031	6.37	1368	0.91	0.90	14.7	148.2	9.18	~300
1034	6.39	1360	0.21	0.81	14.7	144.0	9.20	~300
1037	6.40	1347	0.36	0.72	14.7	138.8	9.21	~300
1040	—	—	—	SAMPLE	—	—	—	—
1113	6.44	1287	0.09	0.85	15.1	127.0	9.16	~300

Purge Cycle (End): 2317 seconds @ 20 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.13
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample MS/MSD taken Here
Purge Time: 1021

Sample Date/Time: 1040
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 21.65
Sample ID: 041323NMW1, 041323NUAPMSMW1, 041323NUAPMSDMW1

Sampler Signature: ~~4/13/23~~ M. Knez Date: 4/13/23 Page 1 of 1
QA/QC Signature: M. Knez Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/13/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 UAP CCR
Sampler(s): M. Knox
Well ID: MW-1D
Field Calibration Completed: 4/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 9.11 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI 19E104904
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1135	5.30	216.1	18.43	1.11	15.1	240.0	9.14	~110
1140	5.29	215.6	64.25	1.05	15.2	244.9	9.15	~110
1145	5.28	212.6	48.43	1.08	15.2	249.8	9.16	~110
1150	5.27	212.0	56.51	1.11	15.2	251.4	9.15	~110
1155	5.23	213.7	26.79	1.24	15.5	233.0	9.30	~220 *
1200	5.20	216.9	21.13	max 1.72	15.5	216.3	9.32	~220
1205	5.12	226.7	16.50	1.14	15.6	201.1	9.33	~220
1210	5.03	237.0	14.23	1.13	15.6	200.8	9.30	~220
1215	4.94	246.5	12.49	0.95	15.6	207.8	9.31	~220
1220	4.87	249.8	11.14	0.94	15.6	215.4	9.33	~220
1225	4.81	251.3	9.97	0.87	15.7	224.4	9.34	~220
1230	4.77	252.5	8.04	0.88	15.6	230.0	9.32	~220
1235	—	—	—	SAMPLE	—	—	—	—
1248	4.69	253.8	5.68	1.10	15.9	239.6	9.34	~220

Purge Cycle (End): 25/5 seconds @ 25 psi
Flow Rate (ml/min End): ~220
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.29
Total Purge Volume (Gallons): ~4.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): *: switch from 55/5 sec to 24/6 sec cycles
Purge Time: 1120 clear grab sample
Sample Date/Time: 1235
Field Filtered (0.45um): ☐ Yes ☑ No
Sample Parameters/Analyte(s):
☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 48.80
Sample ID: 041323NMW1D

Sampler Signature: M. Knox Date: 4/13/23
QA/QC Signature: M. Knox Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-VAP
Sampler(s): C. Mezec
Well ID: MW-2
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 8.00 feet
Depth to Bottom: ~ feet
Water Column Thickness: ~ feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI PRO DSS 18K100510
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ ~
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ ~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1230	5.41	424.4	29.12	1.94	17.4	81.5	8.00	~200
1235	5.39	432.0	16.65	0.73	16.9	96.6	8.03	~200
1240	5.39	429.0	10.65	0.63	17.0	100.3	8.05	~200
1245	5.40	428.6	9.04	0.33	16.9	103.3	8.05	~200
1250	~	S	A	M	P	L	E	~
1315	5.42	440.3	6.19	0.59	19.4	110.1	8.00	~200

Purge Cycle (End): 24/6 seconds @ 20 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 33.80 (0.006) = 0.20
Total Purge Volume (Gallons): ~1.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1225
Sample Date/Time: 04/13/23 @ 1250
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 33.80'
Sample ID: 041323NMW2

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny/80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-UAP
Sampler(s): C. Meyer
Well ID: MW-3
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 13.65 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI Pro DSS 18K100510
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1147	6.54	530	4.15	1.00	17.5	-15.7	12.75	~300
1150	6.61	531	3.69	0.66	17.5	-10.3	12.70	~300
1153	6.63	531	3.43	0.58	17.6	-6.4	12.73	~300
1156	6.64	528	3.27	0.50	17.6	-3.4	12.75	~300
1200	—	S	A	M	P	L	E	—
1215	6.68	529	3.17	0.49	17.7	-8.1	12.75	~300

Purge Cycle (End): 15/5 seconds @ 25 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 28.10 (.006) = ~0.17
Total Purge Volume (Gallons): ~1.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1142
Sample Date/Time: 04/13/23 @ 1200
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐
Other Observations / Equipment Operation Problems: DTP = 28.10
Sample ID: 041323NMW3
Sampler Signature: Date: 04/13/23
QA/QC Signature: Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-UAP
Sampler(s): C. Meyer
Well ID: MW-3D
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 16.80 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI PRODSS 18K100510
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1107	7.18	1118	5.62	1.17	17.5	85.7	21.90	~300
1110	7.15	1113	5.09	1.04	17.6	43.4	23.15	~300
1113	7.13	1111	4.54	0.93	17.6	6.0	24.94	~300
1116	7.12	1112	4.67	0.71	17.7	-12.3	26.90	~300
1119	7.12	1113	4.44	0.63	17.7	-25.9	28.14	~300
1122	7.12	1112	4.25	0.61	17.6	-36.9	30.30	~300
1125	7.12	1112	4.19	0.58	17.6	-39.7	31.62	~300
1130	—	S	A	M	P	L	E	—
1140	7.13	1123	4.23	0.73	18.0	-56.0	32.43	~300

Purge Cycle (End): 13/7 seconds @ 50 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 89.70 (0.006) = ~0.54
Total Purge Volume (Gallons): ~2.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Collect grab Sample
Purge Time: 1057
Sample Date/Time: 04/13/23 @ 1130
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
☐

Other Observations / Equipment Operation Problems: DTP = 89.70
Sample ID: 041323NMW3D

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

Page 1 of 1

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR - VAP
Sampler(s): C. Magee
Well ID: MW-4
Field Calibration Completed: 04/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 12.90 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS 18K100510
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1010	5.42	934	18.45	1.54	16.1	238.3	12.90	~200
1015	5.44	930	24.62	0.51	16.1	233.7	12.90	~200
1020	5.44	929	15.10	0.33	16.2	230.7	12.90	~200
1025	5.44	927	12.14	0.25	16.2	227.2	12.93	~200
1030	5.44	926	9.87	0.21	16.2	225.1	13.00	~200
1035	—	S	A	M	P	L	E	—
1040	5.45	929	7.53	0.38	16.6	218.9	13.04	~200

Purge Cycle (End): 23/7 seconds @ 25 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 32.10 (0.006) = ~0.19
Total Purge Volume (Gallons): ~1.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1005
Sample Date/Time: 04/13/23 @ 1035
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 32.10
Sample ID: 041323NMW4

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR - VAP
Sampler(s): C. Megee
Well ID: MW-5
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 16.36 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI 9500D3S18K10056 10
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0923	4.89	1152	38.80	1.31	16.4	225.1	16.50	~200
0928	4.95	1148	17.60	1.04	16.4	229.7	16.50	~200
0933	4.97	1145	14.25	0.79	16.4	231.1	16.50	~200
0938	4.98	1142	9.96	0.70	16.4	231.3	16.50	~200
0940	—	S	A	M	P	L	E	—
0955	4.99	1137	7.21	0.74	16.7	230.6	16.50	~200

Purge Cycle (End): 24/6 seconds @ 35 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 36.30 (0.006) = ~0.22
Total Purge Volume (Gallons): ~1.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 0915
Sample Date/Time: 04/13/23 @ 0940
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
- ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 36.30
Sample ID: ~~041323NMW-5~~ MW 041323NMW5

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR - VAP
Sampler(s): C. Megar
Well ID: MW-6
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 34.30 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI PCD55/18K10056
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1422	5.82	1358	5.37	1.19	18.9	79.7	34.55	~300
1425	5.82	1348	5.29	1.09	18.9	78.9	34.60	~300
1428	5.83	1334	4.26	1.02	18.9	77.7	34.65	~300
~~1433~~ - 1431	5.84	1323	5.28	0.99	18.9	76.4	34.76	~300
1435	—	S	A	M	P	L	E	—
1450	5.89	1295	7.33	1.03	19.3	67.4	34.95	~300

Purge Cycle (End): 14/6 seconds @ 40 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 54.32 (.006) = ~0.33
Total Purge Volume (Gallons): ~1.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1410
Sample Date/Time: 04/13/23 @ 1435
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 54.32
Sample ID: 041323NMW6

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1S23 CCR-UAP
Sampler(s): C. Meyer
Well ID: MW-6D
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 34.25 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI PSODSS18K100S/C
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1335	6.45	1896	5.85	1.45	19.3	114.0	38.43	~300
1339	6.54	1909	6.16	1.22	19.2	97.3	39.40	~300
1343	6.54	1897	8.71	1.07	19.2	81.3	40.65	~300
1344	6.49	1873	8.72	1.02	19.3	70.6	41.28	~300
1347	6.45	1853	8.55	0.97	19.3	66.0	41.86	~300
1350	6.40	1827	8.66	0.96	19.3	63.4	42.16	~300
1355	—	S	A	M	P	L	E	—
14	6.26	1735	12.52	0.99	20.5	51.3	43.02	~300

Purge Cycle (End): 23/7 seconds @ 45 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 83.47 (.006) = ~0.50
Total Purge Volume (Gallons): ~~1.0~~ ~1.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1325
Sample Date/Time: 04/13/23 @ 1355
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 83.47
Sample ID: 04132311MW6D

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR UAP
Sampler(s): M. Weideman
Well ID: MW-7
Field Calibration Completed: 0715 on 04/14/23
Well Diameter: 2.0 inches
Initial Depth to Water: 36.50 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS 15C104268
- ☐ In-Situ
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1235	5.85	204.0	27.03	1.45	17.8	96.0	38.40	~200
1240	5.80	202.6	21.40	1.39	18.2	107.9	39.44	~200
1245	5.80	205.4	16.68	1.48	18.0	104.8	39.97	~200
1250	5.81	209.6	12.37	1.29	17.8	99.0	40.21	~200
1255	5.82	214.2	9.86	1.16	17.9	92.8	40.50	~200
1300	5.82	220.9	8.75	1.00	18.0	88.2	40.70	~200
1305	5.82	228.1	9.07	0.90	18.0	88.1	40.90	~200
1310 *	5.82	234.6	5.67	0.80	17.9	80.2	40.96	~200
1313	5.81	234.8	8.47	0.92	17.6	81.1	41.41	~300
1316	5.80	235.7	7.37	0.95	17.6	83.6	41.55	~300
1319	5.80	240.0	5.81	0.90	17.5	82.4	41.79	~300
1320	—	—	— SAMPLE —	—	—	—	—	—
1336	5.81	257.7	5.95	1.22	17.8	80.5	42.39	~300

* Switch to 1 min readings

Purge Cycle (End): 14.5/5.5 seconds @ 34 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 48.47 X 0.006 = 0.29
Total Purge Volume (Gallons): ~4.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1225
Sample Date/Time: 1320
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 48.47
Sample ID: 04142 3NMW7

Sampler Signature: M. Weideman Date: 04/14/23 Page 1 of 1
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Overcast, 70

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA23 CCR VAP
Sampler(s): M. Wideman
Well ID: MW-8R
Field Calibration Completed: 0715 on 04/14/23
Well Diameter: 2.0 inches
Initial Depth to Water: 38.36 feet
Depth to Bottom: ~ feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS 15C1042268
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ ~
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ ~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) °C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1122	6.34	747	52.03	0.89	17.5	-57.3	39.05	~350
1125	6.34	782	27.86	0.75	17.5	-61.8	39.11	~350
1128	6.34	814	18.82	0.79	17.5	-64.5	39.12	~350
1131	6.35	835	15.81	0.73	17.5	-66.2	39.12	~350
1134	6.35	860	12.38	0.63	17.5	-67.5	39.09	~350
1137	6.35	876	10.78	0.63	17.5	-68.2	39.12	~350
1140	6.36	896	9.73	0.63	17.5	-68.9	39.10	~350
1143	6.36	906	9.18	0.59	17.5	-69.3	39.01	~350
1146	6.36	917	8.93	0.59	17.5	-69.3	39.00	~350
1150	—	—	—	SAMPLE	—	—	—	—
1203	6.39	974	8.79	0.67	17.8	-68.3	39.21	~350

Purge Cycle (End): 2218 seconds @ 30 psi
Flow Rate (ml/min End): ~350
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (46.21)(0.006) = 0.28
Total Purge Volume (Gallons): ~40
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1115

Sample Date/Time: 1150
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 46.21
Sample ID: 041423NMW8R

Sampler Signature: M. Wideman Date: 04/14/23
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny, 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR UAP
Sampler(s): M. Weideman
Well ID: MW-9R
Field Calibration Completed: 0815 on 04/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 39.25 feet
Depth to Bottom: ~~54.46~~mw 57.61 feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ~~ProDSS~~ 15C104268
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1355	6.07	402.5	22.86	1.51	18.8	22.0	39.30	~275
1400	6.09	410.5	14.75	1.26	18.8	18.7	39.49	~275
1405	6.10	417.8	9.31	1.20	18.8	8.0	39.33	~275
1410	6.12	429.5	7.79	1.06	18.7	-3.9	39.44	~275
1415	6.13	434.1	7.11	0.97	18.7	-9.5	39.29	~275
1420	6.13	439.3	5.91	0.96	18.8	-13.2	39.31	~275
1425	—	—	— SAMPLE	—	—	—	—	—
1442	6.23	452.5	3.28	1.17	19.9	-21.9	39.30	~275

Purge Cycle (End): 28/7 seconds @ 30 psi
Flow Rate (ml/min End): ~275
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (47.07)(0.006)=0.28
Total Purge Volume (Gallons): ~3.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1343
Sample Date/Time: 1425
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 47.7
Sample ID: 041223NMW9R

Sampler Signature: M. Weideman Date: 04/12/23 Page 1 of 1
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny, 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR UAP
Sampler(s): M. Weideman
Well ID: MW-10
Field Calibration Completed: 0825 on 04/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 38.59 feet
Depth to Bottom: ~~feet
Water Column Thickness: ~~feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☑ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS ISC10K268
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ ~~
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ ~~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1415	6.24	532	591.00	2.22	19.6	-2.3	39.00	~225
1420	6.18	535	409.73	1.39	19.3	-2.5	39.00	~225
1425	6.18	534	228.03	1.30	19.1	-3.0	38.93	~225
1430	6.17	538	150.85	1.22	19.1	-4.5	38.88	~225
1435	6.18	541	114.71	1.19	19.1	-5.3	38.88	~225
1440	6.18	540	97.22	1.30	19.2	-4.4	38.85	~225
1445	6.16	542	72.14	1.06	18.8	-6.2	38.94	~225
1450	6.15	546	69.65	1.33	20.8	-10.8	38.90	~250
1500	6.17	545	46.81	1.21	19.2	-7.8	38.91	~250
1505	6.15	545	38.26	1.10	18.8	-7.0	38.80	~250
1510	6.14	544	37.88	1.03	18.9	-6.8	38.85	~250
1515	6.13	541	35.36	0.95	19.0	-6.6	38.84	~250
1520	6.13	542	28.74	0.90	18.9	-5.8	38.93	~250
1525	~~	~~	~~	SAMPLE	~~	~~	~~	~~
1538	6.17	548	26.77	1.32	22.1	-12.0	38.95	~250

* Change air tank @1450

Purge Cycle (End): 23/7 seconds @ 32 psi
Flow Rate (ml/min End): ~250
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (48.80)(0.006) = 0.29
Total Purge Volume (Gallons): ~5.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Mostly clear grab sample
Purge Time: 1405
Sample Date/Time: 1525
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 48.80
Sample ID: 041323NMW10

Sampler Signature: M. Weideman Date: 04/18/23
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny, 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA23 CCR VAP
Sampler(s): M. Weideman
Well ID: MW-11
Field Calibration Completed: 0825 on 04/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 39.07 feet
Depth to Bottom: ~~——~~ feet
Water Column Thickness: ~~——~~ feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS 15C104268
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ ~~——~~
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ ~~——~~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1252	6.47	880	25.64	1.17	19.0	-41.6	39.16	~200
1257	6.53	832	29.39	0.88	19.0	-56.0	39.24	~200
1302	6.54	834	23.35	0.86	18.9	-58.7	39.21	~200
1307	6.54	837	16.72	0.77	18.8	-60.3	39.18	~200
1312	6.54	834	11.91	0.72	19.0	-60.4	39.23	~200
1317	6.53	836	8.92	0.75	18.8	-60.4	39.18	~200
1320	~~——~~	~~——~~	~~——~~ SAMPLE ~~——~~		~~——~~	~~——~~	~~——~~	~~——~~
1341	6.61	854	7.21	0.79	23.4	-67.1	39.16	~200

Purge Cycle (End): 51/9 seconds @ 34 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (47.70)(0.006) = 0.29
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1242

Sample Date/Time: 1320
Field Filtered (0.45um): ☐ Yes ☑ No
Sample Parameters/Analyte(s):
☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 47.70
Sample ID: 041323NMW11

Sampler Signature: M. Weideman Date: 04/13/23
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA23 CCR UAP
Sampler(s): M. Weideman
Well ID: MW-12
Field Calibration Completed: 0825 on 04/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 40.45 feet
Depth to Bottom: ~ feet
Water Column Thickness: ~ feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI Pro DSS ISU04268
- ☐ In-Situ ~
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ ~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1055	6.33	1096	548.90	1.72	18.5	-34.0	40.50	~350
1100	6.31	1089	104.89	1.01	18.4	-33.8	40.50	~250
1105	6.30	1089	60.32	0.88	18.4	-34.5	40.50	~250
1110	6.30	1092	43.04	0.90	18.4	-34.5	40.50	~250
1115	6.30	1093	40.77	0.83	18.4	-34.6	40.50	~250
1120	6.30	1091	27.61	0.90	18.6	-34.9	40.54	~250
1125	6.30	1090	22.36	0.93	18.6	-31.7	40.56	~250
1130	6.30	1091	20.45	0.81	18.6	-32.2	40.57	~250
1135	6.30	1090	18.55	0.80	18.7	-33.2	40.57	~250
1140	6.30	1091	18.67	0.82	18.7	-33.5	40.54	~250
1145	6.30	1091	18.81	0.81	18.8	-33.6	40.55	~250
1150	~	~	~	SAMPLE	~	~	~	~
1211	6.39	1098	17.93	0.79	18.9	-86.9	40.51	~250

Purge Cycle (End): 24/6 seconds @ 32 psi
Flow Rate (ml/min End): ~250
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (48.58)(0.006) = 0.29
Total Purge Volume (Gallons): ~5.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1039
Sample Date/Time: 1150
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 48.58
Sample ID: 041323NMW12

Sampler Signature: M. Weideman Date: 04/13/23
QA/QC Signature: [signature] Date: 4/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA2023 CCR-VAP
Sampler(s): C. Megee
Well ID: MW-13
Field Calibration Completed: 04/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 11.60 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI pro DSS/18 #100550
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0933	5.80	2196	71.06	1.10	16.7	158.0	≠11.60	~300
0938	5.83	2191	38.40	0.91	16.6	104.7	≠11.60	~300
0943	5.84	2182	25.04	0.93	16.6	92.9	11.65	~300
0948	5.86	2162	18.65	0.86	16.6	73.4	11.69	~300
0953	5.88	2144	13.55	0.80	16.7	60.1	11.72	~300
0958	5.89	2133	12.21	0.77	16.7	53.5	11.70	~300
1003	5.90	2126	9.97	0.73	16.7	48.0	11.70	~300
1005	—	S	A	M	P	L	E	—
1022	5.91	2094	9.61	0.48	16.3	33.9	11.73	~300

Purge Cycle (End): 24/6 seconds @ 25 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 20.74' (.006) = —
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 0925
Sample Date/Time: 04/12/23 @ 1005
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐
Other Observations / Equipment Operation Problems: DTP = 20.74
Sample ID: 041223NMW13

Sampler Signature: [signature] Date: 04/12/23
QA/QC Signature: M. Kinsella Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-UAP
Sampler(s): C Meyer
Well ID: MW-14
Field Calibration Completed: 04/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 19.70 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS 18K100510
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ _____
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1048	6.36	154.0	34.35	2.06	16.6	24.4	19.80	~300
1053	6.35	155.2	7.61	1.48	16.6	27.9	19.80	~300
1058	6.35	150.7	6.75	1.14	16.7	31.0	19.80	~300
1103	6.35	148.4	5.56	0.79	16.8	33.5	19.80	~300
1108	6.34	146.9	5.00	0.56	16.7	36.4	19.80	~300
1110	—	S	A	M	P	L	E	—
1142	6.34	127.5	3.89	0.33	16.9	50.2	19.80	~300

Purge Cycle (End): 14/6 seconds @ 35 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 38.25 (0.006) = ~0.23
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1041 @ APMS/UAPMSD taken @ MW-14
Sample Date/Time: 04/12/23 @ 1110
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 38.25
Sample ID: ~~041223NMW14~~ @ 041223NMW14

Sampler Signature: _____ Date: 04/12/23 Page 1 of 1
QA/QC Signature: _____ Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LCR - VAP
Sampler(s): C. Meyer
Well ID: MW-15
Field Calibration Completed: 04/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 23.70 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI PRODSS/ISK100 5/0
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1203	5.64	818	7.55	1.01	17.2	112.8	24.20	~300
1206	5.64	818	7.25	0.62	17.2	114.0	24.25	~300
1209	5.64	817	7.56	0.48	17.2	114.4	24.28	~300
1212	5.64	816	6.92	0.38	17.2	114.7	24.30	~300
1215	—	S	A	M	P	L	E	—
1235	5.68	828	4.53	0.49	17.7	116.8	24.30	~300

Purge Cycle (End): 15/5 seconds @ 30 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 35.25'(0.006) = ~0.21
Total Purge Volume (Gallons): ~2.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1157
Sample Date/Time: 04/12/23 @ 1215
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s):
☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 35.25'
Sample ID: 041223NMW15

Sampler Signature: [signature] Date: 04/12/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 & CCR-UAP
Sampler(s): C. Meyer
Well ID: MW-16
Field Calibration Completed: 04/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 20.80 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI 1001D55181 Yb100510
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1249	6.57	2707	12.70	0.55	16.6	111.6	21.65	~360
1252	6.58	2728	7.82	0.35	16.5	106.7	21.50	~360
1255	6.59	2746	6.28	0.24	16.6	100.6	21.53	~360
1258	6.59	2756	6.80	0.20	16.5	97.8	21.53	~360
1300	—	S	A	M	P	L	E	—
1319	6.62	2801	4.75	0.09	16.7	82.9	21.55	~360

Purge Cycle (End): 16/4 seconds @ 35 psi
Flow Rate (ml/min End): ~360
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 29.51(0.006) = ~0.18
Total Purge Volume (Gallons): ~1.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1243

Sample Date/Time: 04/12/23 @ 1300
Field Filtered (0.45um): ☐ Yes ☒ No
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = 29.51
Sample ID: 041223NMW16

Sampler Signature: [signature] Date: 04/12/23
QA/QC Signature: [signature] Date: 04/17/23

Page 1 of 1

MICROPURGE SAMPLING LOG

Date: 4/13/23
Weather: Sunny, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 UAP CCR
Sampler(s): M. Kuo
Well ID: MW-16D
Field Calibration Completed: 04/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 22.31 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS# E104904
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0920	6.02	536	37.21	2.38	16.6	242.9	22.60	~420
0923	6.15	537	56.81	2.21	16.5	270.5	22.45	~380
0926	6.20	535	39.06	2.14	16.4	311.1	22.47	~380
0929	6.21	532	29.81	2.11	16.4	314.9	22.51	~380
0932	6.22	525	20.41	2.02	16.4	286.1	22.48	~380
0935	6.22	521	22.53	1.92	16.4	254.1	22.52	~380
0938	6.24	511	11.56	1.76	16.4	208.1	22.61	~380
0941	6.24	504	10.72	1.65	16.4	193.6	22.49	~380
0944	6.24	497.3	5.17	1.51	16.4	172.4	22.51	~380
0947	6.24	498.4	4.64	1.53	16.4	166.7	22.48	~380
0950	—	—	—	SAMPLE	—	—	—	—
1001	6.27	457.6	2.71	1.68	16.7	139.1	22.49	~380

Purge Cycle (End): 24/6 seconds @ 40 psi
Flow Rate (ml/min End): ~380
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.28
Total Purge Volume (Gallons): ~4.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0913
Sample Date/Time: 0950
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 47.19
Sample ID: 0413 23 NMW16D

Sampler Signature: M. Kuo Date: 4/13/23
QA/QC Signature: M. Kuo Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/13/23
Weather: Sunny, 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 UAP CCR
Sampler(s): M. Knez
Well ID: MW-175
Field Calibration Completed: 4/13/23 @ 0825
Well Diameter: 2.0 inches
Initial Depth to Water: 10.49 feet
Depth to Bottom: ~ feet
Water Column Thickness: ~ feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS 19E104904
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ ~
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ ~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1322	6.74	994	15.24	1.30	14.9	-58.1	10.61	~300
1325	6.77	986	11.04	1.28	15.0	-65.7	10.64	~300
1328	6.78	980	9.23	1.18	15.1	-70.1	10.65	~300
1331	~	~	Probe difficulty	~	~	~	~	~
1334	6.82	999	8.38	1.70	15.9	-72.0	10.58	~300
1340	~	~	~	SAMPLE	~	~	~	~
1405	6.90	960	2.17	0.68	15.2	-87.7	10.68	~300

Purge Cycle (End): 145/5.5 seconds @ 20 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.15
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1344
Sample Date/Time: 1340
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 24.25
Sample ID: 041323NMW175
Sampler Signature: M. Knez Date: 4/13/23
QA/QC Signature: M. Kenick Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/12/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP+UAP CCR
Sampler(s): M. Knez
Well ID: MW-294
Field Calibration Completed: 4/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 5.45 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS SN# 04404
- ☐ In-Situ
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) °C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	If >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1118	6.19	783	14.95	0.89	16.2	-87.8	6.53	~320
1121	6.21	763	~~15.84~~ 15.08	0.73	15.8	-97.9	7.15	~320
1124	6.22	751	7.96	0.67	15.6	-102.6	8.56	~320
1127	6.23	738	9.96	0.63	15.5	-105.6	9.45	~320
1130	6.23	732	9.67	0.62	15.5	-106.6	10.86	~320
1135	—	—	—	SAMPLE	—	—	—	—
1153	6.29	741	15.46	0.72	16.5	-102.7	15.05	~320

Purge Cycle (End): ~~75 min~~ 15 seconds @ 20 psi
Flow Rate (ml/min End): ~320
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~~0.10 mL~~ 0.11
Total Purge Volume (Gallons): ~2.25
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample; became slightly turb
Purge Time: 1113
Sample Date/Time: 1135
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 17.95
Sample ID: 041223MW294

Sampler Signature: M. Knez Date: 4/12/23
QA/QC Signature: M. Knez Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/12/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 4AP CLR
Sampler(s): M. Knez
Well ID: MW-304
Field Calibration Completed: 4/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 4.74 feet
Depth to Bottom: ~ feet
Water Column Thickness: feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS19E104904
- ☐ In-Situ
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ ~

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1215	6.66	226.0	8.84	0.87	17.5	-28.2	4.88	~230
1220	6.60	227.6	6.42	0.77	17.5	-37.8	4.93	~230
1225	6.60	227.8	7.76	0.71	17.7	-42.5	4.95	~230
1230	6.60	227.9	7.92	0.69	17.8	-45.0	4.97	~230
1235				SAMPLE				
1253	6.61	230.6	3.64	0.68	18.1	-51.0	~~4.97~~ 5.05	~230

Purge Cycle (End): 23/7 seconds @ 30 psi
Flow Rate (ml/min End): ~230
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.26
Total Purge Volume (Gallons): ~2.50
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1203
Sample Date/Time: 1235
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 43.42
Sample ID: 041223MW304

Sampler Signature: M. Knez Date: 4/12/23
QA/QC Signature: M. Winslow Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/12/23
Weather: sunny, 60s

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR UAP
Sampler(s): M. Knez
Well ID: MW-35D
Field Calibration Completed: 4/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 55.56 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS 19E104904
- ☐ In-Situ ____
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ ____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1008	6.56	197.9	5.59	2.15	17.4	166.0	56.26	~320
1011	6.61	196.3	3.11	1.99	17.3	162.4	56.10	~320
1014	6.63	195.5	2.89	1.79	17.5	156.8	56.18	~320
1017	6.65	194.8	2.40	1.71	17.4	148.5	56.19	~320
1020	6.64	192.9	2.33	1.59	17.3	142.3	56.21	~320
1023	6.64	191.0	2.55	1.47	17.2	139.2	56.17	~320
1025	—	—	—	SAMPLE	—	—	—	—
1030	—	—	Change air tank & continue				sample	—
1040	6.71	193.8	1.80	1.49	18.0	114.0	56.21	~320

Purge Cycle (End): 20/10 seconds @ 50 psi
Flow Rate (ml/min End): ~320
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.54
Total Purge Volume (Gallons): ~2.50
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0956

Sample Date/Time: 1025
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = 90.30
Sample ID: 041223NMW35D

Sampler Signature: M. Knez Date: 4/12/23
QA/QC Signature: M. Knez Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/12/23
Weather: Sunny, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2023 VPDES & ISA23 CCR
Sampler(s): M. Knez
Well ID: MW-355 LAP & UAP
Field Calibration Completed: 4/12/23 @ 0815
Well Diameter: 2.0 inches
Initial Depth to Water: 51.01 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS 19E104904
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box
- ☑ Dedicated Bladder Pump
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute Int.)	pH (S.U.)	Sp. Cond. (uS/cm)^oC	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	If >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
~~5 min~~ 0915	5.37	123.8	8.76	8.62	16.9	208.6	51.06	~300
0918	5.47	124.1	6.22	8.61	16.9	208.8	51.09	~300
0921	5.52	124.3	4.17	8.60	16.9	208.8	51.10	~300
0924	5.55	123.4	3.49	8.56	17.0	209.5	51.09	~300
0930	—	—	—	SAMPLE	—	—	—	—
0949	5.67	124.9	1.99	8.50	17.3	190.0	51.17	~300

Purge Cycle (End): 22/18 seconds @ 40 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.35
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site ~~containment~~ mix disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0905

Sample Date/Time: 0930
Field Filtered (0.45um): ☑ Yes ☐ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☑ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐ —

Other Observations / Equipment Operation Problems: DTP = 58.62
Sample ID: 041223NMW355

Sampler Signature: M. Knez Date: 4/12/23
QA/QC Signature: M. Knez Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/13/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA2023 CCR-UAP
Sampler(s): C. Megee
Well ID: Field Blank
Field Calibration Completed: —
Well Diameter: — inches
Initial Depth to Water: — feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ ~~WL Indicator~~
- ☑ ~~YSI~~
- ☐ In-Situ
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ ~~MP-15 Controller Box~~
- ☑ ~~Dedicated Bladder Pump~~
- ☐ Non-dedicated BP
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1020	—	S	A	M	P	L	E	—

Purge Cycle (End): — seconds @ — psi
Flow Rate (ml/min End): —
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): —
Total Purge Volume (Gallons): —
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken w/ lab provided DI water near MW-4
Purge Time:
Sample Date/Time: 04/13/23 @ 1020
Field Filtered (0.45um): ☐ Yes ☑ No
Sample Parameters/Analyte(s):
☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = —
Sample ID: 041323FBUAP

Sampler Signature: [signature] Date: 04/13/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/12/23
Weather: Sunny 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-UAP
Sampler(s): C. Megee
Well ID: FDUAP1
Field Calibration Completed: —
Well Diameter: — inches
Initial Depth to Water: — feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ ~~WL Indicator~~
- ☑ ~~YSI~~
- ☐ In-Situ
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ ~~MP-15 Controller Box~~
- ☑ ~~Dedicated Bladder Pump~~
- ☐ Non-dedicated BP
- ☐ _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1220	—	S	A	M	P	L	E	—

Purge Cycle (End): — seconds @ — psi
Flow Rate (ml/min End): —
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): —
Total Purge Volume (Gallons): —
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken @ MW-15
Purge Time: —

Sample Date/Time: 04/12/23 @ 1220
Field Filtered (0.45um): ☐ Yes ☒ ~~No~~
Sample Parameters/Analyte(s): ☒ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr. ☐

Other Observations / Equipment Operation Problems: DTP = —
Sample ID: 041223FDUAP1

Sampler Signature: [signature] Date: 04/12/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/13/23
Weather: Sunny, 80's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA23 UAP CCR
Sampler(s): M. Kner
Well ID: ~~FD~~ Field Duplicate UAP2
Field Calibration Completed: 4/13/23 @ 0825
Well Diameter: — inches
Initial Depth to Water: — feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI —
- ☐ Peristaltic Pump
- ☐ Compressor
- ☐ Non-dedicated BP
- ☐ In-Situ —
- ☐ MP-10 Controller Box
- ☑ MP-15 Controller Box
- ☐ —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1345	—	—	—	SAMPLE	—	—	—	—

Purge Cycle (End): — seconds @ — psi
Flow Rate (ml/min End): —
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): —
Total Purge Volume (Gallons): —
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample taken from MW-175
Purge Time: —

Sample Date/Time: 1345
Field Filtered (0.45um): ☐ Yes ☑ No

Sample Parameters/Analyte(s):
- ☑ B, Ca, Cl, F, pH (field), Sulfate, TDS, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti, Radium 226/228, Total Radium
- ☐ Dissolved Metals: (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Mo, Ag, V, Zn), Ammonia, Chloride, Nitrate, Sulfate, TDS, Total Hardness, Diss. Hex Cr.
- ☐

Other Observations / Equipment Operation Problems: DTP = —
Sample ID: 041323FDUAP2

Sampler Signature: M. Kner Date: 4/13/23
QA/QC Signature: M. Kner Date: 04/17/23

APPENDIX A.2

FIELD DATA SHEETS
FIRST SEMI-ANNUAL GROUNDWATER MONITORING VERIFICATION EVENT
(AUGUST 2023)

MICROPURGE SAMPLING LOG

Date: 08/03/23
Weather: Overcast, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 3/406066.007
Event: 1SA 2023 CCR/VSWMR - Resample
Sampler(s): T. Torrisi / C. Megee
Well ID: MW-13
Field Calibration Completed: 0800 on 08/03/23
Well Diameter: 2.0 inches
Initial Depth to Water: 11.47 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 20K102503
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

	Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
	Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
	1029	5.51	2050	292.90	0.88	18.9	19.3	11.50	~275
	1034	5.52	2003	131.71	0.74	18.8	15.7	11.50	~275
	1039	5.54	1966	72.74	0.62	18.8	14.0	11.52	~275
*	1044	5.55	1931	67.15	0.77	18.7	14.2	11.52	~275
	1049	5.56	1903	43.61	0.71	18.8	16.3	11.52	~275
	1054	5.56	1869	36.12	0.52	18.7	16.6	11.55	~275
*	1059	5.56	1846	34.25	0.49	18.7	16.6	11.56	~275
	1104	5.56	1829	29.17	0.70	18.7	24.3	11.58	~275
**	1109	5.56	1817	36.26	0.92	18.9	23.2	11.63	~275
	1112	5.57	1801	23.29	0.77	18.6	23.0	11.63	~400
	1115	5.60	1791	19.55	0.73	18.4	20.1	11.63	~400
	1118	5.60	1786	18.63	0.77	18.4	14.6	11.63	~400
*	1121	5.62	1780	20.83	1.04	18.4	18.8	11.63	~400
	1124	5.61	1775	13.27	0.92	18.5	21.6	11.63	~400
	1127	5.62	1771	13.02	0.58	18.4	20.4	11.55	~400
	1130	5.63	1759	11.95	0.40	18.4	18.9	11.70	~400
	1133	5.63	1753	12.55	0.39	18.4	18.2	11.70	~400

Purge Cycle (End): 17/3 seconds @ ~30 psi
Flow Rate (ml/min End): ~400
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (20.70)(0.006) ≈ 0.12
Total Purge Volume (Gallons): ~6.5
Purge Water Management: On site Disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample; *drain Flow-through cell;
Purge Start Time: 1021 ** change to 3-min readings due to increased flow rate
Sample Time: 1140
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Hex. Chromium
- [ ] VSWMR Table 3.1 Column A Metals
- [ ] VSWMR Table 3.1 Column B
- [x] Other: Beryllium

Other Observations / Equipment Operation Problems:
DTP: 20.70'
Sample ID: 080323NMW13

Sampler Signature: [signature] Date: 08/03/23
QA/QC Signature: [signature] Date: 08/04/23

MICROPURGE SAMPLING LOG

Date: 08/03/23
Weather: Overcast, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.0077
Event: 1SA 2023 CCR/VSWMR - Resample
Sampler(s): T. Torisi / C. Megee
Well ID: MW-13
Field Calibration Completed: 0800 on 08/03/23
Well Diameter: 2.0 inches
Initial Depth to Water: 11.47 feet
Depth to Bottom: – feet
Water Column Thickness: – feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 20K105503
- [ ] In-Situ –
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] –

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1136	5.64	1750	10.88	0.38	18.4	17.4	11.70	~400
1139	5.64	1749	8.77	0.88	18.4	19.1	11.70	~400
1140	—	—	—	SAMPLE	—	—	—	—
1144	5.64	1731	8.87	0.99	18.5	21.0	11.68	~400

* drain flow-through cell

Purge Cycle (End): 17/3 seconds @ ~30 psi
Flow Rate (ml/min End): ~400
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (20.70)(0.006) ≈ 0.12
Total Purge Volume (Gallons): ~6.5
Purge Water Management: On site Disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * drain flow-through cell
Purge Start Time: 1021

Sample Time: 1140
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Hex. Chromium
- [ ] VSWMR Table 3.1 Column A Metals
- [ ] VSWMR Table 3.1 Column B
- [x] Other: Beryllium

Other Observations / Equipment Operation Problems:
DTP: 20.70'
Sample ID: 080323NMW13

Sampler Signature: T. T
Date: 08/03/23
Page 2 of 2

QA/QC Signature: Cath
Date: 08/04/23

MICROPURGE SAMPLING LOG

Date: 08/03/23
Weather: Overcast, 70s

Project Name: CPS FFCP - Reymet
Project No./Task No.: 31406066.007
Event: ISA 2023 CCR/VSWMR - Resample
Sampler(s): T. Torrisi / C. Megee
Well ID: Field Duplicate
Field Calibration Completed: 0800 on 08/03/23
Well Diameter: – inches
Initial Depth to Water: – feet
Depth to Bottom: – feet
Water Column Thickness: – feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 20K102503
- [ ] In-Situ –
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] –

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1145	—	—	—	SAMPLE	—	—	—	—

Purge Cycle (End): – seconds @ – psi
Flow Rate (ml/min End): –
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): –
Total Purge Volume (Gallons): –
Purge Water Management: On site Disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample collected at MW-13
Purge Start Time: –

Sample Time: 1145
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Hex. Chromium
- [ ] VSWMR Table 3.1 Column A Metals
- [ ] VSWMR Table 3.1 Column B
- [x] Other: Beryllium

Other Observations / Equipment Operation Problems:
DTP: –
Sample ID: ~~080323DD~~ 080323FDWAP1

Sampler Signature: [signature] Date: 08/04/23 Page 1 of 1
QA/QC Signature: [signature] Date: 08/04/23

MICROPURGE SAMPLING LOG

Date: 08/03/23
Weather: Overcast, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA 2023 CCR/VSWMR - Resample
Sampler(s): T. Torisi/C. Megee
Well ID: Field Blank
Field Calibration Completed: –
Well Diameter: – inches
Initial Depth to Water: – feet
Depth to Bottom: – feet
Water Column Thickness: – feet

Equipment Used:
- [x] ~~WL Indicator~~ TT
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] ~~Dedicated Bladder Pump~~ TT
- [x] ~~YSI~~ TT
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ –
- [ ] MP-10 Controller Box
- [x] ~~MP-15 Controller Box~~ TT
- [ ] –

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1040	–	–	–	SAMPLE	–	–	–	–

Purge Cycle (End): – seconds @ – psi
Flow Rate (ml/min End): –
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): –
Total Purge Volume (Gallons): –
Purge Water Management: On site Disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample collected at MW-13 using lab-supplied DI water
Purge Start Time: –
Sample Time: 1040
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Hex. Chromium
- [ ] VSWMR Table 3.1 Column A Metals
- [ ] VSWMR Table 3.1 Column B
- [x] Other: Beryllium

Other Observations / Equipment Operation Problems:
DTP: –
Sample ID: 080323NFBLAP

Sampler Signature: J. T
Date: 08/03/23
Page 1 of 1

QA/QC Signature:
Date: 08/04/23

APPENDIX A.3

FIELD DATA SHEETS
SECOND SEMI-ANNUAL GROUNDWATER MONITORING EVENT
(OCTOBER 2023)

Date: 10/09/23

WELL GAUGING LOG

Project Name: CPS CCR LAP & UAP (UPGRADIENT) Project No./Task No.: 31406066.007

Sampler(s): J. Davis / T. Torrisi / M. Weideman

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-29U	TT	1108	7.10	20.53	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-35S	TT	1136	51.05	67.23	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: _____

Signature: J. T. Date: 10/19/23

QA/QC Signature: Date: 10/19/23

Date: 10/16/2023 (09) (20)

WELL GAUGING LOG

Project Name: CPS UAP CCR

Project No./Task No.: 31406066.007

Sampler(s): J.DAVIS / T.TORRISI / M.WEIDEMAN

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-1	JD/TT/MW	1011	9.35	31.36	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-1D	JD/TT/MW	1013	9.49	57.11	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-2	JD/TT/MW	1017	8.21	36.08	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-3	JD/TT/MW	1026	**12.94 ~~17.94~~ 12/6/23 JD	31.45	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-3D	JD/TT/MW	1028	16.62	91.65	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-4	JD/TT/MW	1031	13.35	35.34	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-5	JD/TT/MW	1034	16.83	38.02	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-6	JD/TT/MW	1018	34.70	62.46*	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-6D	JD/TT/MW	1023	34.82	92.53	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-7	JD/TT/MW	0931	37.02	55.44	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-8R	JD/TT/MW	0936	38.74	53.44	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-9R	JD/TT/MW	1203	39.69	57.38	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-10	JD/TT/MW	1200	38.89	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-11	JD/TT/MW	0955	39.30	54.07*	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-12	JD/TT/MW	1154	40.31	54.51*	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-13	JD/TT/MW	1205	11.58	26.15	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-14	JD/TT/MW	1155	19.68	47.10	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged

** = transcription error, corrected based on field log

Observations/Notes: * = approximate due to broken WL indicator; unable to pull pump at MW-10 due to PVC casing

Signature: [signature] Date: 10/16/2023

QA/QC Signature: [signature] Date: 10/19/23

Date: 10/16/2023 (09 / JD)

WELL GAUGING LOG

Project Name: CPS UAP CCR

Project No./Task No.: 31406066.007

Sampler(s): J. DAVIS / T. TORRISI / M. WEIDEMAN

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-15	JD/TT/MW	0949	24.31	42.21	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-16	JD/TT/MW	0940	21.35	37.03	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-16D	JD/TT/MW	0942	22.22	72.89	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-17S	JD/TT/MW	1045	9.67	31.78	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-30U	JD/TT/MW	1111	4.41	56.20	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-35D	JD/TT/MW	1133	55.25	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-B31	JD/TT/MW	1022	9.38	23.85	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-B32	JD/TT/MW	0955	12.00	33.75	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-1DD	JD/TT/MW	1010	8.51	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-6	JD/TT/MW	1027	34.21	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-6DD	JD/TT/MW	1024	38.11	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-16DD	JD/TT/MW	0944	19.00	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-17I	JD/TT/MW	1051	10.97	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-17D	JD/TT/MW	1047	11.11	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-31U	JD/TT/MW	1112	1.72	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-35B	JD/TT/MW	1138	54.75	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
—					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: Unable to measure DTB at MW-35D due to WL indicator malfunction

Signature: James Davis

Date: 10/16/2023

QA/QC Signature: T. Torrisi

Date: 10/19/23

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - ~~UAP~~ rr upgradient
Sampler(s): T. Torrisi
Well ID: MW-29U
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 7.31 feet
Depth to Bottom: 20.53 feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23G103077
- [ ] In-Situ -
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0953	6.07	877	30.0	0.25	18.8	-80.5	8.89	~350
0956	6.14	837	63.6	0.18	19.2	-82.4	9.30	~350
1001	6.20	814	82.9	0.19	19.6	-78.3	10.12	~150
1006	6.21	813	94.3	0.17	19.7	-76.3	10.96	~150
1011	6.22	814	90.4	0.15	19.7	-76.2	11.35	~150
1016	6.23	817	74.0	0.13	19.5	-76.7	11.87	~150
1021	6.23	821	65.2	0.39	19.6	-76.7	12.21	~150
1026	6.22	824	64.5	0.28	19.4	-74.9	12.52	~150
1031	6.22	828	42.0	0.17	19.5	-78.5	12.78	~150
1036	6.23	830	33.7	0.14	19.6	-80.8	13.19	~150
1041	6.22	834	23.2	0.13	19.5	-82.5	13.50	~200
1046	6.22	837	18.8	0.10	19.5	-83.7	13.88	~200
1051	6.21	843	21.6	0.16	19.5	-82.3	14.28	~200
1055				SAMPLE				
1117	6.20	856	21.3	0.31	20.0	-74.9	15.82	~200

Purge Cycle (End): 27/3 seconds @ ~20 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (17.94)(0.006)= 0.11
Total Purge Volume (Gallons): ~3.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): tan grab sample; * lower flow rate to help turbidity
Purge Time: 0945

Sample Date/Time: 1055
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 17.94'
Sample ID: 101123.NMW29U

Sampler Signature: T. T
Date: 10/11/23
Page 1 of 1

QA/QC Signature:
Date: 10/13/2023

* Crossover CCR and VPDES

MICROPURGE SAMPLING LOG

Date: 10/09/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR + 4Q23 VPDES GW
Sampler(s): T. Torrisi / C. Pezzaro
Well ID: MW-355
Field Calibration Completed: 0625 on 10/09/23
Well Diameter: 2.0 inches
Initial Depth to Water: 51.18 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 23G103077
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1240	4.94	118.8	54.2	7.20	17.8	315.9	51.20	~300
1245	4.72	120.0	81.9	6.58	17.8	338.6	51.16	~300
1250	4.64	121.2	85.8	6.13	18.0	352.6	51.14	~150
1255	4.65	121.5	77.4	6.10	18.2	357.3	51.08	~150
1300	4.62	121.6	65.4	5.97	18.3	364.4	51.11	~150
1305	4.62	121.8	67.0	5.87	18.3	369.8	51.08	~150
1310	4.59	122.7	66.3	5.64	18.3	374.7	51.16	~180
1315	4.58	123.1	66.5	5.72	17.9	379.5	51.21	~180
1320	4.60	122.7	58.3	5.79	17.6	384.7	51.08	~120
1325	4.61	123.0	54.4	5.77	18.3	385.5	51.10	~120
1330	4.63	122.6	49.9	5.87	18.4	386.6	51.11	~120
1335	4.59	123.2	47.8	5.61	18.4	388.4	51.10	~120
1340	4.59	123.3	45.3	5.56	18.7	389.7	51.10	~120
1345				SAMPLE				
1510	4.60	125.5	43.6	5.35	17.9	397.3	51.14	~120

Purge Cycle (End): 56/4 seconds @ ~47 psi
Flow Rate (ml/min End): ~120
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (58.57)(0.006)≈0.35
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): tan grab sample
Purge Time: 1231
Sample Date/Time: 1345
Field Filtered (0.45um): [x] Yes [ ] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [x] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [x] Tot. Hardness
- [x] Anions (Cl, SO4, NO3)
- [x] Ammonia
- [x] TDS

Other Observations / Equipment Operation Problems: DTP = 58.57'
Sample ID: 100923NMW355

Sampler Signature: T. T
Date: 10/09/23
Page 1 of 1

QA/QC Signature: Jenn Dan
Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: sunny, 50s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): Z. Mondshine
Well ID: MW-1
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 20 inches
Initial Depth to Water: 9.46 feet
Depth to Bottom: 31.36 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI ProDSS 23B105001
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ —
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
901	6.28	1494	8.72	0.74	17.1	125.6	9.56	~350
904	6.29	1497	6.60	0.77	17.1	120.2	9.58	~350
907	6.29	1490	8.08	0.67	17.1	116.0	9.60	~350
910	6.30	1490	6.94	0.68	17.0	113.1	9.63	~350
915	—	—	SAMPLE	—	—	—	—	—
940	6.31	1436	1.09	0.47	16.9	105.7	9.71	~350

Purge Cycle (End): 24/6 seconds @ 20 psi
Flow Rate (ml/min End): ~350
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.13
Total Purge Volume (Gallons): ~2.75
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0856

Sample Date/Time: 0915 10/11/23
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 21.67 MS/MSD taken here
Sample ID: 101123NMW1 101123MSMW1 / 101123MSDMW1

Sampler Signature: Date: 10/11/23
QA/QC Signature: Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): Z. Mondshine
Well ID: MW-1D
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 9.68 feet
Depth to Bottom: 57.11 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS 23B105001
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1010	5.12	191.5	66.11	0.65	16.8	199.5	9.70	~200
1015	5.08	193.3	30.98	0.53	16.8	200.4	9.71	~200
1020	5.04	195.0	20.08	0.48	16.8	199.4	9.71	~200
1025	4.99	193.6	18.26	0.51	16.8	196.2	9.72	~200
1030 *	4.85	223.5	34.81	0.39	16.8	201.4	9.72	~200
1035	4.75	240.8	29.73	0.50	16.8	211.8	9.71	~200
1040	4.69	244.8	32.66	0.48	16.8	218.2	9.71	~200
1045	4.66	249.1	26.54	0.51	16.8	222.6	9.70	~200
1050	4.63	249.6	21.15	0.54	16.8	226.4	9.70	~200
1055	4.60	249.4	19.97	0.46	16.8	231.2	9.70	~200
1100	4.57	250.9	16.18	0.42	16.8	234.9	9.70	~200
1105	4.55	250.3	13.21	0.29	16.8	238.5	9.71	~200
1110	4.54	251.0	13.86	0.12	16.8	241.6	9.71	~200
1115	4.51	249.6	13.09	0.15	16.8	243.6	9.71	~200
1120	—	—	— SAMPLE —	—	—	—	—	—
1135	4.49	251.7	7.83	0.19	16.8	242.9	9.70	~200

* empty flowthrough cell

Purge Cycle (End): 2416 seconds @ 35 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.29
Total Purge Volume (Gallons): ~5.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 0958

Sample Date/Time: 1120 10/11/23
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 48.81
Sample ID: 101123NMW1D

Sampler Signature: [signature] Date: 10/11/23
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/10/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): J. DAVIS, M. Weideman
Well ID: MW-2
Field Calibration Completed: 10/10/2023 @ 0635
Well Diameter: 2.0 inches
Initial Depth to Water: 7.91 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 15C104268
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1310	5.74	516	62.39	1.52	19.1	89.8	7.92	~~7.92~~ 10 ~200
1315	5.64	485.2	42.02	0.87	19.5	102.8	7.94	~200
1320	5.59	471.0	34.50	0.48	18.6	141.5	7.99	~200
1325	5.59	468.5	24.23	0.56	18.7	162.5	8.01	~200
1330	5.58	466.5	19.03	0.48	18.6	178.5	8.03	~200
1335	5.58	466.0	13.82	0.41	18.6	181.7	7.98	~200
1340	5.59	466.9	8.75	0.42	19.3	183.9	7.97	~200
1345			SAMPLE					
1402	5.60	466.9	8.60	0.58	18.9	192.6	8.00	~200

Purge Cycle (End): 24/6 seconds @ 22 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 33.74 x .006 = ~.202
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1305

Sample Date/Time: 1345
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 33.74
Sample ID: ~~101023NMW-2~~ 101023NMW2

Sampler Signature: [signature] Date: 10/10/23 Page 1 of 1
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/10/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR - UAP
Sampler(s): T. Torrisi
Well ID: MW-3
Field Calibration Completed: 0635 on 10/10/23
Well Diameter: 2.0 inches
Initial Depth to Water: 12.95 feet
Depth to Bottom: 31.45 feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23G103077
- [ ] In-Situ -
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1441	6.74	567	4.68	0.89	19.4	121.3	12.96	~250
1446	6.75	559	2.18	0.76	19.5	113.5	13.00	~250
1451	6.75	559	2.65	0.69	19.4	112.8	13.00	~250
1456	6.75	559	1.98	0.64	19.5	112.3	12.96	~250
1500				SAMPLE				
1516	6.75	565	0.63	0.75	19.5	114.6	13.00	~250

Purge Cycle (End): 16.5/3.5 seconds @ ~30 psi
Flow Rate (ml/min End): ~250
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (28.05)(0.006) = 0.17
Total Purge Volume (Gallons): ~1.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1433

Sample Date/Time: 1500
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 28.05'
Sample ID: 101023NMW3

Sampler Signature: T. Torrisi Date: 10/10/23
QA/QC Signature: James Dean Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/10/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-3D
Field Calibration Completed: 0635 on 10/10/23
Well Diameter: 2.0 inches
Initial Depth to Water: 16.53 feet
Depth to Bottom: 91.65 feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23610307
- [ ] In-Situ -
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1539	7.36	1170	9.09	1.30	19.0	-87.9	21.11	~200
1544	7.28	1158	5.97	0.92	18.9	-85.6	22.81	~200
1549	7.22	1148	3.82	0.50	18.6	-82.6	25.01	~200
1554	7.21	1144	2.70	0.52	18.5	-82.6	25.82	~250
1555	—	—	—	SAMPLE	—	—	—	—
1600	—	—	—	CHANGE AIR TANK	—	—	—	—
1618	7.19	1151	2.53	0.46	18.2	-78.7	32.21	~250

Purge Cycle (End): 13/7 seconds @ ~48 psi
Flow Rate (ml/min End): ~250
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (89.25)(0.006) ≈ 0.54
Total Purge Volume (Gallons): ~1.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1527

Sample Date/Time: 1555
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 89.25'
Sample ID: 101023NMW3D

Sampler Signature: T. Torrisi Date: 10/10/23
QA/QC Signature: James Deri Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): Z. Mondshine
Well ID: MW-4
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: ~~2nd 0.39~~ 13.39 feet
Depth to Bottom: 35.34 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS 23B105001
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1206	5.56	1070	93.37	1.14	17.4	211.7	13.40	~200
1211	5.56	1070	45.28	0.88	17.4	212.1	13.40	~200
1216	5.55	1068	15.55	0.64	17.4	213.5	13.40	~200
1221	5.54	1066	11.33	0.56	17.4	215.0	13.40	~200
1226	5.55	1064	8.57	0.73	17.4	216.2	13.40	~200
1230	—	—	SAMPLE	—	—	—	—	—
1245	5.516	1067	4.59	0.54	17.5	195.8	13.40	~200

Purge Cycle (End): 23/7 seconds @ 25 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.19
Total Purge Volume (Gallons): ~2.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample w/black ~~flecks~~ cm small suspended solids
Purge Time: 1201
Sample Date/Time: 1230
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 32.08
Sample ID: 101123NMW4

Sampler Signature: [signature] Date: 10/11/23
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/12/2023
Weather: Sunny 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-5
Field Calibration Completed: 10/12/2023
Well Diameter: 2.0 inches
Initial Depth to Water: 16.82 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS 15C104268
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1230	5.15	1241	143.04	0.42	17.3	187.7	16.85	~250
1235	5.15	1239	93.77	0.31	17.2	195.5	16.87	~250
1240	5.14	1242	48.36	0.33	17.2	199.0	16.85	~250
1245	5.14	1242	25.16	0.30	17.2	199.9	16.84	~250
1250	5.14	1242	18.99	0.27	17.2	199.2	16.85	~250
1255	5.14	1243	12.14	0.22	17.2	198.2	16.85	~250
1300	5.14	1243	8.08	0.20	17.2	199.6	16.85	~250
1305	—	S	A	M	P	L	E	—
1320	5.13	1244	8.14	0.22	17.2	199.0	16.97	~250

Purge Cycle (End): 24 | 6 seconds @ ~30 psi
Flow Rate (ml/min End): ~250 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 36.23 x .006 = ~.217
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1222

Sample Date/Time: 10/12/2023 @ 1305
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 36.23
Sample ID: 101223NMW13

Sampler Signature: [signature] Date: 10/12/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No /Task No: 31406066.007
Event: 2SA23 CCR GW - 4AP
Sampler(s): T. Torrisi
Well ID: MW-6
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 34.75* feet
Depth to Bottom: 62.46* feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23B104947
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1256	5.88	1483	13.82	1.26	19.2	61.0	35.00*	~270
1301	5.89	1462	11.47	1.09	19.2	58.3	35.05*	~270
1306	5.90	1446	8.88	0.98	19.2	56.4	35.06*	~270
1311	5.91	1427	6.27	0.91	19.2	54.1	~~35~~ 35.08*	~270
1315				SAMPLE				
1348	6.00	1362	5.73	2.03	20.5	39.9	35.16*	~270

Purge Cycle (End): 14/6 seconds @ ~33 psi
Flow Rate (ml/min End): ~270
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (54.14)(0.006)= 0.32
Total Purge Volume (Gallons): ~2.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * WL approximate due to WL meter malfunction
Purge Time: 1248
Sample Date/Time: 1315
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 54.14'
Sample ID: 101223NMW6

Sampler Signature: T. T
Date: 10/12/23
Page 1 of 1

QA/QC Signature:
Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-6D
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 34.94' feet
Depth to Bottom: 92.53' feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23B 104947
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1437	6.45	1937	29.80	1.36	19.1	32.4	39.55	~300
1442	6.45	1923	16.85	1.34	19.9	29.9	41.60	~300
1447	6.39	1894	12.89	1.34	19.0	36.6	42.85	~300
1452	6.25	1811	16.99	1.34	19.0	53.3	45.29	~300
1457	6.11	1744	22.35	1.24	19.6	69.5	45.77	~140
1502	6.03	1693	15.07	1.32	20.1	80.6	46.76	~140
1507	5.97	1657	12.60	1.28	20.4	89.7	47.30	~140
* 1512	5.93	1639	14.60	1.28	20.5	94.0	48.08	~140
1517	5.91	1631	11.41	1.46	20.8	95.6	49.00	~140
1522	5.89	1617	13.00	1.19	20.9	98.6	49.70	~140
1527	5.89	1617	12.20	1.20	20.5	99.1	50.11	~140
1532	5.90	1616	10.69	1.13	20.4	99.3	50.81	~140
1535				SAMPLE				
1605	5.89	1611	41.15	1.19	20.6	94.2	54.37	~140

Purge Cycle (End): 52/8 seconds @ ~48 psi
Flow Rate (ml/min End): ~140
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (83.40')(0.006) ≈ 0.50
Total Purge Volume (Gallons): ~3.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): light tan grab sample; * drain flow-through cell
Purge Time: 1424

Sample Date/Time: 1535
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg, Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 83.40'
Sample ID: 101223NMW6D

Sampler Signature: T. T
Date: 10/12/23
Page 1 of 1

QA/QC Signature: James Dai
Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/11/2023
Weather: Sunny 70's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-7
Field Calibration Completed: 10/11/2023 @ 0630
Well Diameter: 2.0 inches
Initial Depth to Water: 37.05 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 15C10416B
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1335	5.97	227.5	68.29	2.64	18.3	104.0	37.86	~250
1340	5.90	216.3	24.76	2.00	18.1	126.2	40.31	~250
1345	5.91	218.3	16.92	1.99	18.3	122.0	40.72	~250
1350	5.92	224.2	12.19	1.92	18.3	111.0	41.16	~250
1355	5.94	230.8	9.71	1.75	18.4	99.2	41.34	~250
1400	5.93	238.2	9.49	1.69	18.2	91.5	41.62	~250
1405	5.93	246.7	5.25	1.54	18.2	85.6	41.91	~250
1410	5.92	251.6	5.26	1.52	18.2	82.6	41.90	~250
259.6 1415	5.91	~~279.6~~	3.87	1.37	18.0	78.9	42.15	~250
4 1420	5.90	263.0	4.09	1.11	17.7	79.5	42.21	~250
1425	5.90	260.0	4.76	1.45	18.9	79.7	41.45	~250
1430	5.90	276.3	3.39	1.22	18.2	72.2	41.83	~250
1435	5.90	275.2	3.50	1.22	18.1	71.5	42.01	~250
1440	5.90	277.9	3.76	1.19	18.0	70.7	42.09	~250
1445	—	S	A	M	P	L	E	—
1505	5.89	292.3	3.00	1.47	18.2	74.0	42.32	~250

Purge Cycle (End): 14.5 / 15.5 seconds @ 30 psi
Flow Rate (ml/min End): ~250 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 48.53 x .006 = ~.2911
Total Purge Volume (Gallons): ~5.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): # = change air tank / clear grab sample
Purge Time: 1330

Sample Date/Time: 10/11/2023 1445
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 48.53
Sample ID: 101123MMW7

Sampler Signature: [signature] Date: 10/11/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW-UAP
Sampler(s): Z. Nordshine
Well ID: MW-8R
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 38.81 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI PROS23BH05001
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ —
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1329	6.46	774	39.02	0.77	17.9	-76.9	39.69	~350
1332	6.47	817	14.20	0.70	17.8	-83.3	39.62	~350
1335	6.47	856	8.36	0.58	17.8	-84.7	39.69	~350
1338	6.47	880	7.43	0.54	17.8	-85.0	39.72	~350
1341	6.47	910	7.18	0.53	17.8	-86.0	39.72	~350
1344	6.48	929	5.82	0.43	17.8	-86.6	39.75	~350
1347	6.48	952	4.31	0.40	17.8	-86.5	39.79	~350
1350	6.48	965	3.80	0.38	17.8	-86.5	39.85	~350
1353	6.49	977	4.20	0.34	17.8	-86.6	39.88	~350
1355	—	—	— SAMPLE —		—	—	—	—
1410	6.50	1023	4.44	0.37	17.8	-84.2	39.91	~350

Purge Cycle (End): 2218 seconds @ 30 psi
Flow Rate (ml/min End): ~350
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.28
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1323
Sample Date/Time: 1355
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 46.31
Sample ID: 101123NMW8R

Sampler Signature: [signature] Date: 10/11/23
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-9R
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 39.82* feet
Depth to Bottom: 57.38 feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 23G103077
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1355	6.15	474.9	2.81	2.20	18.6	15.0	39.84*	~320
1358	6.16	472.5	2.72	1.40	18.3	7.8	39.88*	~320
1401	6.16	470.2	2.19	1.31	18.4	7.2	39.85*	~320
1404	6.16	470.1	2.89	1.17	18.2	6.9	39.86*	~320
1405				SAMPLE				
1425	6.18	476.9	2.03	1.39	18.7	0.1	39.83*	~320

Purge Cycle (End): 25/5 seconds @ ~35 psi
Flow Rate (ml/min End): ~320
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (47.70)(0.006) ≈ 0.27
Total Purge Volume (Gallons): ~1.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * WL approximate due to broken WL indicator
Purge Time: 1349

Sample Date/Time: 1405
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 47.70' (from previous logs)
Sample ID: 101123NMW9R

Sampler Signature: T. T
Date: 10/11/23
Page 1 of 1

QA/QC Signature: Jenn Dani
Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-10
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 39.07 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23G103077
- [ ] In-Situ —
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1500	6.23	557	> 1000 *	1.15	18.0	-3.2	39.35	~340
1505	6.24	556	674	1.17	18.0	-8.0	39.47	~340
1510	6.22	554	391	1.19	17.8	-7.6	39.40	~340
1515	6.22	554	209	1.05	17.8	-8.7	39.55	~340
1520	6.23	555	126	1.14	17.8	-9.8	39.36	~340
1525	6.23	556	81.4	1.04	17.8	-10.8	39.36	~340
1530	6.23	554	73.7	1.04	17.8	-11.0	39.40	~340
1535	6.22	552	55.8	0.96	17.7	-10.5	39.56	~340
1540	6.21	548	57.9	0.90	17.7	-9.2	39.56	~340
1545	6.21	546	51.5	0.93	17.7	-7.7	39.51	~340
1550	6.20	544	45.1	0.84	17.7	-6.5	39.60	~340
1555	6.19	542	39.9	0.87	17.7	-5.4	39.58	~340
1600	6.18	541	32.2	0.85	17.7	-4.2	39.56	~340
1605	6.19	540	30.9	1.04	17.7	-3.8	39.58	~340
1610	6.18	539	28.6	1.01	17.6	-2.9	39.41	~340
1615	—	—	—	SAMPLE	—	—	—	—
1628	6.19	539	24.9	1.35	17.6	-2.0	39.36	~340

** drain flow-through cell

Purge Cycle (End): 25/5 seconds @ ~43 psi
Flow Rate (ml/min End): ~340
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (48.87)(0.006) ≈ 0.29
Total Purge Volume (Gallons): ~6.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): light tan grab sample; * turbidity unable to be measured by meter ("overrange");
Purge Time: 1453
Sample Date/Time: 1615
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 48.87'
Sample ID: 101123NMW10

Sampler Signature: T. Torrisi Date: 10/11/23
QA/QC Signature: James Dean Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - WAP
Sampler(s): T. Torrisi
Well ID: MW-11
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 39.45 * feet
Depth to Bottom: 54.07 * feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 23B104947
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1101	6.53	852	34.66	0.89	17.8	-54.7	39.44 *	~270
1106	6.54	852	28.62	0.77	17.5	-60.0	39.45 *	~270
1111	6.54	852	24.83	0.65	17.6	-60.4	39.50 *	~270
1116	6.54	851	17.41	0.69	17.7	-60.1	39.45 *	~220
1121	6.54	851	15.22	0.66	18.0	-59.3	39.72 *	~220
1126	6.54	851	11.82	0.60	17.8	-59.5	39.71 *	~220
1131	6.54	849	6.94	0.62	17.8	-58.8	39.47 *	~220
1135				SAMPLE				
1156	6.55	851	5.25	1.14	18.0	-55.0	39.44 *	~220

Purge Cycle (End): 53/7 seconds @ ~38 psi
Flow Rate (ml/min End): ~220
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (47.59)(0.006) ≈ 0.29
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * WL approximate due to broken WL indicator
Purge Time: 1052
Sample Date/Time: 1135
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 47.59' *
Sample ID: 101223NMW11

Sampler Signature: T. Torrisi Date: 10/12/23
QA/QC Signature: [signature] Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 50s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-12
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 40.56 * feet
Depth to Bottom: 54.51* feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23B104947
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0912	6.15	1101	51.74	1.78	17.2	-13.9	40.55 *	~300
0917	6.16	1111	85.77	1.27	17.1	-24.9	40.52 *	~300
0922	6.18	1114	68.30	1.06	17.1	-29.8	40.57 *	~300
0927	6.20	1116	43.70	1.01	17.1	-31.3	40.59 *	~300
0932	CHANGE AIR TANK							
0937	6.23	1118	29.58	0.87	17.2	-32.6	40.66 *	~300
0942	6.25	1120	20.36	0.95	17.1	-32.6	40.60 *	~300
0947	6.27	1121	18.69	0.95	17.2	-32.8	40.59 *	~300
0952	6.29	1122	15.61	0.98	17.3	-33.5	40.66 *	~300
0957 **	6.31	1123	15.00	0.98	17.2	-33.8	40.70 *	~300
1002	6.33	1125	20.10	1.10	17.2	-29.3	40.65 *	~300
1007	6.35	1127	16.24	1.03	17.3	-32.9	40.59 *	~300
1010	SAMPLE							
1027	6.39	1130	12.15	0.78	17.3	-34.7		~300

Purge Cycle (End): 25/5 seconds @ ~40 psi
Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (48.49)(0.006) ≈ 0.29
Total Purge Volume (Gallons): ~5.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * WL approximate due to broken WL meter; ** drain flow-through cell
Purge Time: 0905
Sample Date/Time: 1010
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover: [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6 [ ] Tot. Hardness [ ] Anions (Cl, SO4, NO3) [ ] Ammonia [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 48.49' *
Sample ID: 101223NMW12

Sampler Signature: T. T
Date: 10/12/23
Page 1 of 1

QA/QC Signature:
Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/12/2023
Weather: Sunny 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-13
Field Calibration Completed: 10/12/2023 @ 0615
Well Diameter: 2.0 inches
Initial Depth to Water: 11.81 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 15C104160
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1110	5.71	2140	13.54	0.77	19.0	26.4	11.80	~200
1115	5.73	2145	7.12	0.65	19.0	22.3	11.80	~200
1120	5.74	2153	6.75	0.63	19.0	20.3	11.81	~200
1125	5.77	2167	7.38	0.88	19.0	19.8	11.79	~200
1130	-	S	A	M	P	L	E	-
1145	5.82	223	5.24	0.86	19.1	12.0	11.72	~200

Purge Cycle (End): 24/6 seconds @ ~30 psi
Flow Rate (ml/min End): ~200 ml/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 20.75 x .006 = ~.1245
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear fresh sample
Purge Time: 1102

Sample Date/Time: 10/12/2023 @ 1130
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 20.75
Sample ID: 101223NMW13

Sampler Signature: [signature] Date: 10/12/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/12/2023
Weather: cloudy 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-14
Field Calibration Completed: 10/12/2023 @ 0615
Well Diameter: 2.0 inches
Initial Depth to Water: 19.72 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 15C104168
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0920	6.40	81.7	44.37	1.15	16.5	35.4	19.93	~300
0923	6.40	81.1	20.20	0.68	16.5	32.5	19.86	~300
0926	6.41	80.2	11.70	0.54	16.5	30.9	19.84	~300
0929	6.40	80.2	11.85	0.58	16.5	31.3	19.82	~300
0932	6.40	80.2	12.49	0.52	16.5	31.6	19.83	~300
0935	6.40	80.2	11.89	0.50	16.5	32.6	19.82	~300
0938	6.43	80.2	10.29	0.46	16.5	34.4	19.92	~300
0941	6.39	80.4	8.34	0.42	16.5	35.3	19.90	~300
0945	-	S	A	M	P	L	E	-
1018	6.40	80.9	4.12	0.20	16.5	35.3	19.98	~300

Purge Cycle (End): 1416 seconds @ 30 psi
Flow Rate (ml/min End): ~300 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 38.24 x .006 = ~.229
Total Purge Volume (Gallons): ~4.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample; MS/MSD collected here
Purge Time: 0915

Sample Date/Time: 10/12/2023 0945
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 38.24
Sample ID: 101223WMW14

Sampler Signature: J. Davis Date: 10/12/2023 Page 1 of 1
QA/QC Signature: J. [illegible] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/2023
Weather: Sunny 50's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-15
Field Calibration Completed: 10/11/2023 @ 0630
Well Diameter: 2.0 inches
Initial Depth to Water: 24.26 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI R.DSS 15E104260
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1020	5.63	911	7.44	0.41	16.5	155.0	24.73	~400
1023	5.63	911	6.79	0.32	16.5	163.2	24.74	~400
1026	5.63	910	7.50	0.24	16.5	170.0	24.72	~400
1029	5.62	909	11.00	0.19	16.5	175.5	24.74	~400
1032	5.62	909	8.81	0.19	16.5	180.6	24.81	~400
1035	5.62	909	3.89	0.15	16.5	184.2	24.80	~400
1040	—	S	A	M	P	L	E	—
1100	5.62	908	5.07	0.16	16.5	193.2		~400

Purge Cycle (End): 1515 seconds @ 35 psi
Flow Rate (ml/min End): ~400 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 35.25 x .006 = 7.2115
Total Purge Volume (Gallons): ~5.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1013

Sample Date/Time: 10/11/2023 1040
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 35.25
Sample ID: 101123NMW15

Sampler Signature: James Davis Date: 10/11/2023
QA/QC Signature: [illegible] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/2023
Weather: Sunny 50's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-16
Field Calibration Completed: 10/11/23 @ 0630
Well Diameter: 2.0 inches
Initial Depth to Water: 21.47 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS 15C104268
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute Int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)	
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500	
0905	6.51	3299	46.09	1.04	16.8	100.0	~~22.87~~ 21.81	~300	21.81
0908	6.53	3307	24.35	0.82	16.7	95.8	21.55	~300	
0911	6.54	3314	13.65	0.88	16.8	91.0	21.74	~300	
0914	6.54	3317	9.19	0.81	16.8	86.4	21.72	~300	
0917	6.54	3320	8.38	0.79	16.8	84.2	21.71	~300	
0920	6.55	3322	5.66	0.65	16.8	82.2	21.78	~300	
0925	-	S	A	M	P	L	E	-	
0940	6.56	3318	4.50	0.69	16.8	74.4	21.56	~300	

Purge Cycle (End): 25 | 5 seconds @ 40 psi
Flow Rate (ml/min End): ~300 ~~stable~~ mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 29.05 x .006 = .1743
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0858

Sample Date/Time: 10/11/2023 0925
Field Filtered (0.45um): [ ] Yes [X] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 29.05
Sample ID: 101123NMW16

Sampler Signature: [signature] Date: 10/11/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/12/2023
Weather: Sunny 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: MW-16D
Field Calibration Completed: 10/12/2023 @ 0615
Well Diameter: 2.0 inches
Initial Depth to Water: ~~22.80~~ 21.72 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 15210402
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1400	5.79	479.4	12.45	2.18	17.9	208.7	21.86	~200
1405	5.99	476.2	12.64	1.42	17.6	186.3	21.82	~200
1410	6.18	475.8	10.12	1.02	17.5	171.5	21.85	~200
1415	6.25	475.2	10.82	0.87	17.6	160.5	21.85	~200
1420	6.26	473.2	10.31	0.88	17.5	150.2	21.85	~200
1425	6.27	468.1	12.41	0.83	17.5	133.5	21.84	~200
1430	6.28	462.1	9.70	0.86	17.5	124.4	21.82	~200
1435	—	S	A	M	P	L	E	—
1455	6.18	450.9	8.01	0.80	17.3	124.5	21.80	~200

Purge Cycle (End): 47 | 13 seconds @ 65 psi
Flow Rate (ml/min End): 200 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 47.13 x .006 = ~.282
Total Purge Volume (Gallons): ~2.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1355
Sample Date/Time: 10/12/2023 @ 1435
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 47.13
Sample ID: 101223 N MW16D
Sampler Signature: Jamar Davis Date: 10/12/2023
QA/QC Signature: [illegible] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): T. DAVIS
Well ID: MW-175
Field Calibration Completed: 10/11/2023 @ 0630
Well Diameter: 2.0 inches
Initial Depth to Water: 10.72 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS ISC104268
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1127	6.73	1641	32.68	0.37	17.7	-96.9	10.85	~300
1130	6.74	1639	40.71	0.43	17.7	-98.0	10.91	~300
1133	6.74	1640	31.99	0.22	17.8	-100.9	10.90	~300
1136	6.74	1639	29.68	0.18	17.8	-102.4	10.82	~200
1141	6.74	1638	24.71	0.19	17.9	-102.0	10.84	~200
1146	6.74	1635	25.83	0.17	17.8	-102.3	10.84	~200
1151	6.74	1633	27.24	0.15	17.8	-102.3	10.85	~200
1156	6.74	1629	22.52	0.18	17.8	-101.8	10.84	~~200~~ ~150
1201	6.74	1629	25.60	0.22	18.0	-99.8	10.83	~150
1206	6.83	1627	12.20	3.02	18.1	-84.8	10.79	~150
1211	6.74	1629	9.74	0.47	18.1	-89.2	10.77	~150
1216	6.74	1628	8.41	0.26	18.1	-93.7	10.78	~150
1220	—	S	A	M	P	L	E	—
1255	6.74	1621	6.00	0.34	18.4	-91.6	10.72	~150

Purge Cycle (End): 50/10 seconds @ 30 psi
Flow Rate (ml/min End): ~150 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 24.32 x .006 = .14592
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): #: 15.0/5.0 → 25.0/5.0 → 25/5 → ~~55/5~~ 50/10
Purge Time: 1123

Sample Date/Time: 10/11/2023 1220
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 24.32
Sample ID: 101123NMW175

Sampler Signature: [signature] Date: 10/11/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 50s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: MW-30U
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 5.08 feet
Depth to Bottom: 56.20 feet
Water Column Thickness: – feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23G103077
- [ ] In-Situ –
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] –

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0859	6.41	233.0	3.83	0.57	18.2	-34.2	5.20	~250
0904	6.47	233.5	5.29	0.46	18.1	-45.3	5.20	~250
0909	6.48	233.3	9.03	0.41	18.1	-48.4	5.27	~250
0914	6.49	233.2	4.90	0.26	18.1	-50.1	5.25	~250
0915				SAMPLE				
0935	6.50	233.7	3.07	0.75	18.1	-46.0	5.28	~250

Purge Cycle (End): 23/7 seconds @ ~30 psi
Flow Rate (ml/min End): ~250
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (43.41)(0.006) * 0.26
Total Purge Volume (Gallons): ~1.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0850

Sample Date/Time: 0915
Field Filtered (0.45um): [ ] Yes [x] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 43.41'
Sample ID: 101123NMW30U

Sampler Signature: T. T
Date: 10/11/23
Page 1 of 1

QA/QC Signature:
Date: 10/13/2023

~~* Crossover CCR and VPDES~~ **

MICROPURGE SAMPLING LOG

Date: 10/11/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): T. Torris
Well ID: ~~MW-35S~~ ** MW-35D
Field Calibration Completed: 0630 on 10/11/23
Well Diameter: 2.0 inches
Initial Depth to Water: 55.31 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 23610307
- [ ] In-Situ -
- [x] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1201	6.56	202.7	3.32	3.03	18.3	83.4	54.71	~200
1206	6.53	200.9	3.76	2.79	18.3	94.3	55.83	~200
1211	6.30	199.6	3.31	2.49	18.3	110.3	55.71	~200
1216	6.36	197.6	2.07	2.38	18.2	111.3	55.79	~200
1221	6.32	196.2	1.80	2.25	18.2	119.8	55.79	~200
1225	—	—	—	SAMPLE	—	—	—	—
1243	6.55	195.4	1.85	2.08	18.7	115.8	55.83	~200

Purge Cycle (End): 20/10 seconds @ ~47 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (89.78)(0.006) ≈ 0.54
Total Purge Volume (Gallons): ~1.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1146

Sample Date/Time: 1225
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = 89.78'
Sample ID: 101123NMW35D

Sampler Signature: T. Torris Date: 10/11/23
QA/QC Signature: [signature] Date: 10/13/2023

* Crossover CCR and VPDES

MICROPURGE SAMPLING LOG

Date: 10-09-2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR (UAP)/4Q23 VPDES
Sampler(s): J. DAVIS
Well ID: MW-313
Field Calibration Completed: 10-09-2023 @ 0625
Well Diameter: 2.0 inches
Initial Depth to Water: 9.36 feet
Depth to Bottom: 20.26 DD 23.90 feet
Water Column Thickness: DD 10.90 14.54 feet
Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI ProDSS, SC104268
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)@C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1245	5.25	62.0	33.01	1.39	17.3	214.3	12.21	~150
1250	5.28	61.8	24.53	1.30	17.4	220.3	12.63	~200
1255	5.29	61.9	16.56	1.09	17.4	225.3	13.11	~200
1300	5.30	62.2	14.00	1.07	17.5	225.8	13.11	~200
1305	5.31	62.5	9.56	0.72	17.3	231.5	13.19	~200
1310	—	S	A	M	P	L	E	—
1335	5.35	62.7	5.67	0.88	17.3	227.5	13.24	~200

Purge Cycle (End): 56 14 seconds @ 22 psi
Flow Rate (ml/min End): ~200
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 20.26 x .006 =
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1240

Sample Date/Time: 1310 10/09/2023
Field Filtered (0.45um): [x] Yes [ ] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [x] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [x] Tot. Hardness
- [x] Anions (Cl, SO4, NO3)
- [x] Ammonia
- [x] TDS

Other Observations / Equipment Operation Problems: DTP = 20.26
Sample ID: 100923NMW1331

Sampler Signature: [signature] Date: 10-09-2023
QA/QC Signature: [signature] Date: 10/13/23

* Crossover CCR and VPDES

MICROPURGE SAMPLING LOG

Date: 10/10/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR (UAP) / 4Q23 VPDES
Sampler(s): ~~10/10/2023 @~~ J. DAVIS
Well ID: MWB32
Field Calibration Completed: 10/10/2023 @ 0635
Well Diameter: 2.0 inches
Initial Depth to Water: 12.26 feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI ProDSS 15C104268
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] MP-15 Controller Box
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1125	6.27	1826	32.74	0.30	16.9	117.4	12.34	~250
1130	6.28	1834	22.42	0.23	16.9	113.9	12.33	~250
1135	6.28	1836	17.19	0.18	17.1	112.5	12.34	~250
1140	6.28	1836	23.30	0.16	17.2	111.9	12.32	~250
1145	6.28	1836	11.70	0.10	17.1	108.9	12.33	~250
1150	6.20	1819	9.63	0.14	16.9	112.8	12.35	~250
1155	-	S	A	M	P	L	E	-
1225	6.17	1830	5.09	0.60	16.8	121.0	12.29	~250

Purge Cycle (End): 51 | 9 seconds @ 20 psi
Flow Rate (ml/min End): ~250 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 29.24 x .006 = .175
Total Purge Volume (Gallons): ~3.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear, grab sample
Purge Time: 1117

Sample Date/Time: 1155 10/10/2023
Field Filtered (0.45um): [x] Yes [ ] No
Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [x] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [x] Tot. Hardness
- [x] Anions (Cl, SO4, NO3)
- [x] Ammonia
- [x] TDS

Other Observations / Equipment Operation Problems: DTP = 29.24
Sample ID: 10/023N MWB32

Sampler Signature: [signature] Date: 10/10/2023
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/11/2023
Weather: Sunny 50's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - UAP
Sampler(s): J. DAVIS
Well ID: FDUAP1
Field Calibration Completed: —
Well Diameter: — inches
Initial Depth to Water: — feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI —
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1045	—	S	A	M	P	L	E	—

Purge Cycle (End): — seconds @ — psi
Flow Rate (ml/min End): —
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): —
Total Purge Volume (Gallons): —
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab taken @ MW-15
Purge Time: —

Sample Date/Time: 10/11/2023 1045
Field Filtered (0.45um): ☐ Yes ☒ No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = —

Sample ID: 101123FDUAP1

Sampler Signature: [signature] Date: 10/11/2023

QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No /Task No: 31406066 007
Event: 2SA23 CCR GW - UAP
Sampler(s): T. Torisi
Well ID: Field Duplicate 2-UAP
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: - feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used
- [x] WL Indicator
- [x] YSI Pro DSS 23B104417
- [ ] In-Situ -
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [x] Dedicated Bladder Pump
- [ ] Non-dedicated BP
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)@C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1325				SAMPLE				

Purge Cycle (End): - seconds @ - psi
Flow Rate (ml/min End): -
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube Vol=Depth to Pump x 0.006 gal/ft): -
Total Purge Volume (Gallons): -
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample collected at MW-6
Purge Time: -

Sample Date/Time: 1325
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg, Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = -
Sample ID: 101223FDUAP2

Sampler Signature: T. Torisi Date: 10/12/23
QA/QC Signature: James Dennis Date: 10/13/2023

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Sunny, 70s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 25A23 CCR GW - UAP
Sampler(s): T. Torrisi
Well ID: Field Blank - UAP
Field Calibration Completed: -
Well Diameter: - inches
Initial Depth to Water: - feet
Depth to Bottom: - feet
Water Column Thickness: - feet

Equipment Used:
- [x] ~~WL Indicator~~ TT
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] ~~Dedicated Bladder Pump~~ TT
- [x] ~~YSI~~ TT
- [ ] Peristaltic Pump
- [ ] Compressor
- [ ] Non-dedicated BP
- [ ] In-Situ -
- [ ] MP-10 Controller Box
- [x] ~~MP-15 Controller Box~~ TT
- [ ] -

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)@°C	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1215	SAMPLE							

Purge Cycle (End): - seconds @ - psi
Flow Rate (ml/min End): -
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): -
Total Purge Volume (Gallons): -
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample collected near MW-11 using lab-supplied DI water
Purge Time: -

Sample Date/Time: 1215
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [x] Metals (B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl) + Hg
- [x] Anions (Cl, F, SO4)
- [x] Radium 226/228
- [x] TDS
- [x] pH (field)

VPDES UAP Crossover:
- [ ] Diss. Metals (As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Mo, Se, Ag, V, Zn) + Hg; Diss. Cr6
- [ ] Tot. Hardness
- [ ] Anions (Cl, SO4, NO3)
- [ ] Ammonia
- [ ] TDS

Other Observations / Equipment Operation Problems: DTP = -
Sample ID: 101223FBUAP

Sampler Signature: T. T—
Date: 10/12/23
Page 1 of 1

QA/QC Signature: [signature]
Date: 10/13/2023

APPENDIX B

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

APPENDIX B.1

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

FIRST SEMI-ANNUAL GROUNDWATER MONITORING EVENT (APRIL 2023)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 18, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Arielle Green, Golder Associates Inc.
Rashida Marlowe, Dominion Energy Services, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.
Mike Williams, Golder Associates Inc

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92661769001	**041123NMWB31**	Water	04/11/23 13:25	04/12/23 09:55
92661769002	**041123NMWB32**	Water	04/11/23 12:10	04/12/23 09:55

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92661769001	**041123NMWB31**	SM 2540C-2011	RVS	1	PASI-A
92661769002	**041123NMWB32**	SM 2540C-2011	RVS	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92661769001	**041123NMWB31**					
SM 2540C-2011	Total Dissolved Solids	56.0	mg/L	25.0	04/13/23 19:43	
92661769002	**041123NMWB32**					
SM 2540C-2011	Total Dissolved Solids	1400	mg/L	50.0	04/13/23 19:48	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: April 18, 2023

General Information:
2 samples were analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Sample: 041123NMWB31 **Lab ID: 92661769001** Collected: 04/11/23 13:25 Received: 04/12/23 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**56.0**	mg/L	25.0	25.0	1		04/13/23 19:43		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Sample: 041123NMWB32 **Lab ID: 92661769002** Collected: 04/11/23 12:10 Received: 04/12/23 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1400**	mg/L	50.0	50.0	1		04/13/23 19:48		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

QC Batch: 767977
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661769001, 92661769002

METHOD BLANK: 3987554 Matrix: Water
Associated Lab Samples: 92661769001, 92661769002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/13/23 19:43	

LABORATORY CONTROL SAMPLE: 3987555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	252	101	90-110	

SAMPLE DUPLICATE: 3987556

Parameter	Units	92661708003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	262	2	25	

SAMPLE DUPLICATE: 3987557

Parameter	Units	92661770009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 3988029

Parameter	Units	92661770004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	221	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-LAP CCR+VPDES-E
Pace Project No.: 92661769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92661769001	**041123NMWB31**	SM 2540C-2011	767977		
92661769002	**041123NMWB32**	SM 2540C-2011	767977		

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

Pace	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy - VA

Project #: WO# : 92661769

92661769

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: AW 4-12-22

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 42070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.4 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92661769

PM: AMB **Due Date: 04/19/23**

CLIENT: 92-DomEnergy

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			—																										
2			—																										
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COLID: CPS-ISA2023-VAP-LAPCCR+VPDES-E-2-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Arielle Green	Attention:	
Address:	2108 W. Laburnum Ave.	Copy To:		Company Name:	
	Suite 200, Richmond, VA 23227		Kelly.a.hicks@dominionenergy.com	Address:	
Email:	arielle_green@golder.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (E)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	13861-

Regulatory Agency
State / Location
VA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	82661769
1	04 11 23NMWB31	WT	G	4/11/23	1325	—	—		1	X									X		001
2	04 11 23NMWB32	WT	G	4/11/23	1210	—	—		1	X									X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level II Data Package	M. Knez / WSP	04/11/23	1533	[signature] PACE	4/11/23	1532	2.2	Y	Y	Y
STANDARD TAT	[signature] PACE	4/11/23	1600	ARLPACEFW	04.12.23	0855	4.4	Y	N	Y
All samples preserved on ice										

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	M. Knez
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	04/11/23

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 21, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 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

A revised report is being submitted on 6/21/23 to only report requested analytes.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Arielle Green, Golder Associates Inc.
Rashida Marlowe, Dominion Energy Services, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.
Mike Williams, Golder Associates Inc

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

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
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92662122001	**041223NMW29U**	Water	04/12/23 11:35	04/12/23 15:01
92662122002	**041223NMW35S**	Water	04/12/23 09:30	04/12/23 15:01

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92662122001	**041223NMW29U**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	MAB2	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662122002	**041223NMW35S**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662122001	**041223NMW29U**					
EPA 6010	Barium	348	ug/L	10.0	04/19/23 13:21	
EPA 6010	Calcium	54000	ug/L	500	04/19/23 13:21	
EPA 6010	Selenium	4.7J	ug/L	15.0	04/19/23 13:21	
EPA 6020B	Arsenic	13.7	ug/L	5.0	04/24/23 21:41	
EPA 6020B	Cobalt	2.5J	ug/L	5.0	04/24/23 21:41	
EPA 6020B	Molybdenum	0.74J	ug/L	5.0	04/24/23 21:41	
SM 2540C-2011	Total Dissolved Solids	358	mg/L	25.0	04/16/23 14:57	
EPA 9056A	Chloride	13.1	mg/L	1.0	04/14/23 21:41	
EPA 9056A	Fluoride	0.17	mg/L	0.10	04/14/23 21:41	
EPA 9056A	Sulfate	1.1	mg/L	1.0	04/14/23 21:41	
92662122002	**041223NMW35S**					
EPA 6010	Barium	31.2	ug/L	10.0	04/19/23 13:25	
EPA 6010	Calcium	6000	ug/L	500	04/19/23 13:25	
EPA 6020B	Cobalt	0.12J	ug/L	1.0	04/24/23 21:45	
EPA 6020B	Lithium	4.1	ug/L	2.5	04/24/23 21:45	
EPA 6020B	Molybdenum	0.13J	ug/L	1.0	04/24/23 21:45	
EPA 9056A	Chloride	11.5	mg/L	1.0	04/14/23 22:24	
EPA 9056A	Fluoride	0.079J	mg/L	0.10	04/14/23 22:24	
EPA 9056A	Sulfate	4.4	mg/L	1.0	04/14/23 22:24	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: June 21, 2023

General Information:
2 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: June 21, 2023

General Information:
2 samples were analyzed for EPA 6020B by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: June 21, 2023

General Information:
2 samples were analyzed for EPA 7470A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: June 21, 2023

General Information:
1 sample was analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: June 21, 2023

General Information:
2 samples were analyzed for EPA 9056A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Sample: 041223NMW29U **Lab ID: 92662122001** Collected: 04/12/23 11:35 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**348**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:21	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:21	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:21	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:21	7440-43-9	
Calcium	**54000**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:21	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:21	7440-47-3	
Selenium	**4.7J**	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:21	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	5.0	1.0	5	04/23/23 16:54	04/24/23 21:41	7440-36-0	
Arsenic	**13.7**	ug/L	5.0	0.43	5	04/23/23 16:54	04/24/23 21:41	7440-38-2	
Cobalt	**2.5J**	ug/L	5.0	0.25	5	04/23/23 16:54	04/24/23 21:41	7440-48-4	
Lead	ND	ug/L	5.0	0.38	5	04/23/23 16:54	04/24/23 21:41	7439-92-1	
Lithium	ND	ug/L	12.5	2.5	5	04/23/23 16:54	04/24/23 21:41	7439-93-2	
Molybdenum	**0.74J**	ug/L	5.0	0.63	5	04/23/23 16:54	04/24/23 21:41	7439-98-7	
Thallium	ND	ug/L	1.0	0.25	5	04/23/23 16:54	04/24/23 21:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**358**	mg/L	25.0	25.0	1		04/16/23 14:57		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**13.1**	mg/L	1.0	0.60	1		04/14/23 21:41	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		04/14/23 21:41	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		04/14/23 21:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Sample: 041223NMW35S **Lab ID: 92662122002** Collected: 04/12/23 09:30 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**31.2**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:25	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:25	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:25	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:25	7440-43-9	
Calcium	**6000**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:25	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:25	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:25	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 21:45	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 21:45	7440-38-2	
Cobalt	**0.12J**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 21:45	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 21:45	7439-92-1	
Lithium	**4.1**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 21:45	7439-93-2	
Molybdenum	**0.13J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 21:45	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 21:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:54	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**11.5**	mg/L	1.0	0.60	1		04/14/23 22:24	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		04/14/23 22:24	16984-48-8	
Sulfate	**4.4**	mg/L	1.0	0.50	1		04/14/23 22:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

QC Batch: 770884
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662122001, 92662122002

METHOD BLANK: 4001988 Matrix: Water
Associated Lab Samples: 92662122001, 92662122002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/29/23 17:38	

LABORATORY CONTROL SAMPLE: 4001989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4001990 4001991

Parameter	Units	92661765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	97	98	75-125	1	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

QC Batch: 910373
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662122001, 92662122002

METHOD BLANK: 5004343 Matrix: Water
Associated Lab Samples: 92662122001, 92662122002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/19/23 11:44	
Beryllium	ug/L	ND	4.0	0.17	04/19/23 11:44	
Boron	ug/L	ND	50.0	12.4	04/19/23 11:44	
Cadmium	ug/L	ND	1.0	0.33	04/19/23 11:44	
Calcium	ug/L	ND	500	190	04/19/23 11:44	
Chromium	ug/L	ND	5.0	1.7	04/19/23 11:44	
Selenium	ug/L	ND	15.0	3.9	04/19/23 11:44	

LABORATORY CONTROL SAMPLE: 5004344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	265	106	80-120	
Beryllium	ug/L	25	26.2	105	80-120	
Boron	ug/L	1250	1300	104	80-120	
Cadmium	ug/L	25	26.9	108	80-120	
Calcium	ug/L	12500	13300	107	80-120	
Chromium	ug/L	250	260	104	80-120	
Selenium	ug/L	250	275	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5004345 5004346

Parameter	Units	92661913001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	27.4	250	250	294	297	107	108	75-125	1	20	
Beryllium	ug/L	ND	25	25	26.5	26.7	106	107	75-125	1	20	
Boron	ug/L	ND	1250	1250	1330	1340	105	106	75-125	1	20	
Cadmium	ug/L	ND	25	25	26.8	27.2	107	109	75-125	1	20	
Calcium	ug/L	38200	12500	12500	50800	51100	101	103	75-125	0	20	
Chromium	ug/L	ND	250	250	263	265	105	106	75-125	1	20	
Selenium	ug/L	ND	250	250	275	277	110	111	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

QC Batch: 769799
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662122001, 92662122002

METHOD BLANK: 3996539 Matrix: Water
Associated Lab Samples: 92662122001, 92662122002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	04/24/23 20:50	
Arsenic	ug/L	ND	1.0	0.087	04/24/23 20:50	
Cobalt	ug/L	ND	1.0	0.050	04/24/23 20:50	
Lead	ug/L	ND	1.0	0.077	04/24/23 20:50	
Lithium	ug/L	ND	2.5	0.50	04/24/23 20:50	
Molybdenum	ug/L	ND	1.0	0.13	04/24/23 20:50	
Thallium	ug/L	ND	0.20	0.050	04/24/23 20:50	

LABORATORY CONTROL SAMPLE: 3996540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.9	100	80-120	
Arsenic	ug/L	50	49.6	99	80-120	
Cobalt	ug/L	50	51.7	103	80-120	
Lead	ug/L	50	50.5	101	80-120	
Lithium	ug/L	50	52.2	104	80-120	
Molybdenum	ug/L	50	50.2	100	80-120	
Thallium	ug/L	25	25.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3996541 3996542

Parameter	Units	92661765001 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	49.7	50.2	99	100	75-125	1	20	
Arsenic	ug/L	ND	50	50	49.1	48.8	98	97	75-125	1	20	
Cobalt	ug/L	0.10J	50	50	51.5	51.7	103	103	75-125	0	20	
Lead	ug/L	ND	50	50	50.2	50.3	100	100	75-125	0	20	
Lithium	ug/L	1.1J	50	50	52.3	53.1	102	104	75-125	1	20	
Molybdenum	ug/L	ND	50	50	50.1	50.7	100	101	75-125	1	20	
Thallium	ug/L	ND	25	25	25.3	25.4	101	102	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

QC Batch: 768296
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662122001

METHOD BLANK: 3989059 Matrix: Water
Associated Lab Samples: 92662122001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/16/23 14:56	

LABORATORY CONTROL SAMPLE: 3989060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3989061

Parameter	Units	92662122001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	379	6	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

QC Batch: 768103
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662122001, 92662122002

METHOD BLANK: 3987876 Matrix: Water
Associated Lab Samples: 92662122001, 92662122002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/14/23 17:50	
Fluoride	mg/L	ND	0.10	0.050	04/14/23 17:50	
Sulfate	mg/L	ND	1.0	0.50	04/14/23 17:50	

LABORATORY CONTROL SAMPLE: 3987877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.6	91	90-110	
Fluoride	mg/L	2.5	2.3	94	90-110	
Sulfate	mg/L	50	45.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3987880 3987881

Parameter	Units	92662122001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.1	50	50	59.8	59.8	93	93	90-110	0	10	
Fluoride	mg/L	0.17	2.5	2.5	2.5	2.5	94	95	90-110	1	10	
Sulfate	mg/L	1.1	50	50	47.4	47.6	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3988011 3988012

Parameter	Units	92662118002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	49.0	49.0	95	95	90-110	0	10	
Fluoride	mg/L	0.097J	2.5	2.5	2.4	2.5	93	95	90-110	1	10	
Sulfate	mg/L	15.1	50	50	61.8	61.8	93	93	90-110	0	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-D
Pace Project No.: 92662122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662122001	**041223NMW29U**	EPA 3010	910373	EPA 6010	910398
92662122002	**041223NMW35S**	EPA 3010	910373	EPA 6010	910398
92662122001	**041223NMW29U**	EPA 3010A	769799	EPA 6020B	769813
92662122002	**041223NMW35S**	EPA 3010A	769799	EPA 6020B	769813
92662122001	**041223NMW29U**	EPA 7470A	770884	EPA 7470A	771042
92662122002	**041223NMW35S**	EPA 7470A	770884	EPA 7470A	771042
92662122001	**041223NMW29U**	SM 2540C-2011	768296		
92662122001	**041223NMW29U**	EPA 9056A	768103		
92662122002	**041223NMW35S**	EPA 9056A	768103		

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

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy_VA

Project

WO# : 92662122

92662122

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: APK 4/13/23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 97T070 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3, 4.8, 0.2, 0.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.3, 4.8, 0.2, 0.6

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Missing TPS container for sample 041223NMW355.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92662122**

PM: AMB Due Date: 04/27/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		1				2																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-15A2023-CCR-D-3-1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Arielle Green	Attention:	
Address:	2108 W. Laburnum Ave.	Copy To:		Company Name:	
Suite 200, Richmond, VA 23227			Kelly.a.hickse@dominionenergy.com	Address:	
Email:	arielle_green@golder.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (D)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	13861-

Regulatory Agency
State / Location
VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals 6010/6020	Mercury by 7470	Total Dissolved Solids (TDS)	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra										Residual Chlorine (Y/N)	
																		Requested Analysis Filtered (Y/N)	N	N	N	N	N										
1	04 12 23NMW29U	WT	G	4/12/23	1135	—	—		6	X		X							x	x	x	x	x	5.56								
2	04 12 23NMW35S	WT	G	4/12/23	0935	—	—		6	X		X							x	x	x	x	x									
3		WT																	x	x	x	x	x									
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Residual Chlorine (Y/N): 9266217Z

~~9266214~~ AmB

001

002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level II Data Package	M. Knez / WSP	4/12/23	1501	[signature]	4/12/23	1501	Y	Y	Y	Y
STANDARD TAT	[signature]	4/12/23	1600							
All Samples preserved on ice										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	M. Knez		
SIGNATURE of SAMPLER:	M. Knez	DATE Signed:	04/12/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.6	Y	Y	Y

ANALYTICAL REPORT

May 22, 2023

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1605781
Samples Received:	04/15/2023
Project Number:	92662122
Description:	CPS-1SA2023-CCR-D
Site:	001
Report To:	Angela Baioni 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
Project Manager

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



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

041223NMW29U L1605781-01 5

041223NMW35S L1605781-02 6

Qc: Quality Control Summary 7

Radiochemistry by Method 903.0/9315 7

Radiochemistry by Method 904/9320 8

Gl: Glossary of Terms 9

Al: Accreditations & Locations 10

Sc: Sample Chain of Custody 11

041223NMW29U L1605781-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 11:35	04/15/23 09:00

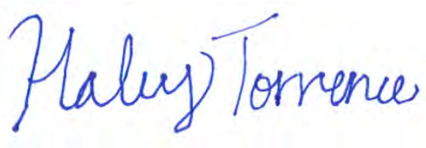
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2050046	1	05/04/23 12:47	05/10/23 19:33	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2050046	1	05/04/23 12:47	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW35S L1605781-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 09:30	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2050046	1	05/04/23 12:47	05/10/23 20:33	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2050046	1	05/04/23 12:47	05/17/23 19:37	SWM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.848		0.329	0.242	05/10/2023 19:33	WG2050046
(T) Barium	*90.5*			*30.0-143*	*05/10/2023 19:33*	WG2050046

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.07		0.330	0.562	05/17/2023 19:37	WG2059132
(T) Barium	*104*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*83.4*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.91		0.466	0.612	05/17/2023 19:37	WG2050046

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.755		0.315	0.275	05/10/2023 20:33	WG2050046
(T) Barium	*93.3*			*30.0-143*	*05/10/2023 20:33*	WG2050046

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.420		0.239	0.418	05/17/2023 19:37	WG2059132
(T) Barium	*103*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*111*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.17		0.395	0.500	05/17/2023 19:37	WG2050046

Method Blank (MB)

(MB) R3925270-2 05/10/23 16:02

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.413		0.159	0.157
(T) Barium	*99.3*		*99.3*	

L1604336-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1604336-18 05/10/23 19:33 • (DUP) R3925270-5 05/10/23 16:02

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.294	0.228	0.290	0.713	0.443	0.290	1	83.2	0.841		20	3
(T) Barium	*104*			*97.6*	*97.6*							

Laboratory Control Sample (LCS)

(LCS) R3925270-1 05/10/23 12:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.71	114	80.0-120	
(T) Barium			*99.7*		

L1604336-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1604336-04 05/10/23 16:32 • (MS) R3925270-3 05/10/23 16:02 • (MSD) R3925270-4 05/10/23 16:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.581	23.1	22.4	113	109	1	75.0-125			2.99		20
(T) Barium		*102*			*102*	*101*							

Method Blank (MB)

(MB) R3926623-1 05/17/23 19:37

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.0212	U	0.135	0.243
(T) Barium	*111*		*111*	
(T) Yttrium	*109*		*109*	

L1605749-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605749-01 05/17/23 19:37 • (DUP) R3926623-5 05/17/23 19:37

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.349	0.336	0.594	0.582	0.353	0.594	1	50.0	0.477	J	20	3
(T) Barium	*106*			*110*	*110*							
(T) Yttrium	*103*			*97.7*	*97.7*							

Laboratory Control Sample (LCS)

(LCS) R3926623-2 05/17/23 19:37

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.32	86.5	80.0-120	
(T) Barium			*101*		
(T) Yttrium			*98.9*		

L1605775-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605775-05 05/17/23 19:37 • (MS) R3926623-3 05/17/23 19:37 • (MSD) R3926623-4 05/17/23 19:37

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.170	8.37	8.91	82.0	87.4	1	70.0-130			6.25		20
(T) Barium		*108*			*108*	*102*							
(T) Yttrium		*109*			*110*	*115*							

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: VA
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 4/12/2023 Results Requested By: ~~4/27/2023~~ 5/12/23

Workorder: 92662122 Workorder Name: CPS-1SA2023-CCR-D

Report To	Subcontract To
Angela Baloni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

L1605781
K003

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3	Ra 226 903.0/9315	Ra 228 9320, Combined Ra	LAB USE ONLY
1	041223NMW29U	PS	4/12/2023 11:35	92662122001	Water	2	X	X	-01
2	041223NMW35S	PS	4/12/2023 09:30	92662122002	Water	2	X	X	-02
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	Allison Hoc	4/14/23 1850	[illegible]	4/13/23 0900
2				
3				

Comments

Cooler Temperature on Receipt °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact: ~~Y~~ N
COC Signed/Accurate: ~~Y~~ N
Bottles arrive intact: ~~Y~~ N
Correct bottles used: ~~Y~~ N
Sufficient volume sent: ~~Y~~ N
RAD Screen <0.5 mR/hr: ~~Y~~ N

If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

2.2+0=2.2 GBLV1

L1605781

Pace Analytical®
www.pacelabs.com

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 92662122
(To be completed by sending lab)

Sending Project No:	92662122
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	04/14/23
REQUESTED COMPLETION DATE:	**4/27/2023**

Sending Region	IR92-Charlotte	Sending Project Mgr.	Angela Baioni
Receiving Region	IR850-Pace National	External Client	Dominion Energy_VA
State of Sample Origin	VA	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Wet Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
Ra 226 903.0/9315	BP1N	1	HNO3	2	$49.00	$98.00
Ra 228 9320, Combined Ra	BP1N	1	HNO3	2	$49.00	$98.00
					TOTAL	$196.00

Special Requirements: Report D, QC Limits, MDLs (D),Dominion EQEDD (1616),Golder Equis 5 (34)

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Radiochemistry	38	$196.00	$156.80	$39.20
* Custom Revenue Allocation	TOTAL	$196.00	$156.80	$39.20

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 19, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Arielle Green, Golder Associates Inc.
Rashida Marlowe, Dominion Energy Services, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.
Mike Williams, Golder Associates Inc

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92662127001	**041223NMW35S**	Water	04/12/23 09:30	04/12/23 15:01

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92662127001	**041223NMW35S**	SM 2540C-2011	MAB2	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662127001	**041223NMW35S**					
SM 2540C-2011	Total Dissolved Solids	99.0	mg/L	25.0	04/16/23 14:58	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: April 19, 2023

General Information:
1 sample was analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Sample: 041223NMW35S **Lab ID: 92662127001** Collected: 04/12/23 09:30 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**99.0**	mg/L	25.0	25.0	1		04/16/23 14:58		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

QC Batch: 768296
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662127001

METHOD BLANK: 3989059 Matrix: Water
Associated Lab Samples: 92662127001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/16/23 14:56	

LABORATORY CONTROL SAMPLE: 3989060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3989061

Parameter	Units	92662122001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	379	6	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-G
Pace Project No.: 92662127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662127001	**041223NMW35S**	SM 2540C-2011	768296		

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

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy - VA

Project #:

WO# : 92662127

92662127

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

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: APQ 41323

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 17T170

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3, 3.4, 3.2, 2.6 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.3, 3.4, 3.2, 2.6

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92662127

PM: AMB Due Date: 04/27/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-1GA2023-CCR-G-3-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Arielle Green	Attention:	
Address:	2108 W. Laburnum Ave.	Copy To:		Company Name:	
Suite 200, Richmond, VA 23227			Kelly.A.Nichas@dominionenergy.com	Address:	
Email:	arielle_green@golder.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	Chesterfield Power Station (G)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	13861-

Regulatory Agency

State / Location: VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	
1	04 12 23NMW35S	WT	G	4/12/23	0930	—	—		1	X									X		92662127 001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level II Data Package	M. Knez / WSP	4/12/23	1501	[signature] ARC	4/12/23	1501
STANDARD TAT	[signature] ARC	4/12/23	1600	A.Nichas PaceHW	4/13/23	0925
All Samples preserved on ice						

SAMPLE CONDITIONS			
12	Y	Y	Y
4.3.3	Y	N	Y
4.8.2			
0.6			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Knez

SIGNATURE of SAMPLER: M. Knez DATE Signed: 04/12/23

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 21, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory between April 12, 2023 and April 15, 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

A revised report is being submitted on 7/21/23 to update sample IDs that were entered incorrectly by the sub labs.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

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
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92662485001	**041323NWM1**	Water	04/13/23 10:40	04/15/23 11:30
92662485002	**041323NMW1D**	Water	04/13/23 12:35	04/15/23 11:30
92662485003	**041323NMW2**	Water	04/13/23 12:50	04/15/23 11:30
92662485004	**041323NMW3**	Water	04/13/23 12:00	04/15/23 11:30
92662485005	**041323NMW3D**	Water	04/13/23 11:30	04/15/23 11:30
92662485006	**041323NMW4**	Water	04/13/23 10:35	04/15/23 11:30
92662485007	**041323NMW5**	Water	04/13/23 09:40	04/15/23 11:30
92662485008	**041323NMW6**	Water	04/13/23 14:35	04/15/23 11:30
92662485009	**041323NMW6D**	Water	04/13/23 13:55	04/15/23 11:30
92662485010	**041323NMW10**	Water	04/13/23 15:25	04/15/23 11:30
92662485011	**041323NMW11**	Water	04/13/23 13:20	04/15/23 11:30
92662485012	**041323NMW12**	Water	04/13/23 11:50	04/15/23 11:30
92662485013	**041323NMW16D**	Water	04/13/23 09:50	04/15/23 11:30
92662485014	**041323NMW17S**	Water	04/13/23 13:40	04/15/23 11:30
92662485015	**041323FBUAP**	Water	04/13/23 10:20	04/15/23 11:30
92662485016	**041323FDUAP2**	Water	04/13/23 13:45	04/15/23 11:30
92662559001	**041423NMW7**	Water	04/14/23 13:20	04/15/23 11:30
92662559002	**041423NMW8R**	Water	04/14/23 11:50	04/15/23 11:30
92661765001	**041123NMWB31**	Water	04/11/23 13:25	04/12/23 09:55
92661765002	**041123NMWB32**	Water	04/11/23 12:10	04/12/23 09:55
92662061001	**041223NMW9R**	Water	04/12/23 14:25	04/13/23 09:25
92662118001	**041223NMW13**	Water	04/12/23 10:05	04/12/23 15:01
92662118002	**041223NMW14**	Water	04/12/23 11:10	04/12/23 15:01
92662118003	**041223NMW15**	Water	04/12/23 12:15	04/12/23 15:01
92662118004	**041223NMW16**	Water	04/12/23 13:00	04/12/23 15:01
92662118005	**041223NMW30U**	Water	04/12/23 12:35	04/12/23 15:01
92662118006	**041223NMW35D**	Water	04/12/23 10:25	04/12/23 15:01
92662118007	**041223FDUAP1**	Water	04/12/23 12:20	04/12/23 15:01

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92662485001	**041323NWM1**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485002	**041323NMW1D**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485003	**041323NMW2**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485004	**041323NMW3**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485005	**041323NMW3D**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485006	**041323NMW4**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485007	**041323NMW5**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485008	**041323NMW6**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485009	**041323NMW6D**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485010	**041323NMW10**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485011	**041323NMW11**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485012	**041323NMW12**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485013	**041323NMW16D**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485014	**041323NMW17S**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662485015	**041323FBUAP**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056A	CDC	3	PASI-A
92662485016	**041323FDUAP2**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662559001	**041423NMW7**	EPA 6010	AME	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662559002	**041423NMW8R**	EPA 6010	AME	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661765001	**041123NMWB31**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661765002	**041123NMWB32**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662061001	**041223NMW9R**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118001	**041223NMW13**	EPA 6010	AME	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118002	**041223NMW14**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118003	**041223NMW15**	EPA 6010	AME	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118004	**041223NMW16**	EPA 6010	AAM1, AME	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118005	**041223NMW30U**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	MAB2	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118006	**041223NMW35D**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	MAB2	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662118007	**041223FDUAP1**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	MAB2	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662485001	**041323NWM1**					
EPA 6010	Barium	158	ug/L	10.0	04/25/23 18:16	
EPA 6010	Boron	3020	ug/L	50.0	04/25/23 18:16	
EPA 6010	Calcium	173000	ug/L	500	04/25/23 18:16	
EPA 6020B	Arsenic	0.22J	ug/L	1.0	04/24/23 23:14	
EPA 6020B	Cobalt	4.3	ug/L	1.0	04/24/23 23:14	
EPA 6020B	Molybdenum	0.41J	ug/L	1.0	04/24/23 23:14	
SM 2540C-2011	Total Dissolved Solids	1070	mg/L	50.0	04/18/23 14:11	
EPA 9056A	Chloride	182	mg/L	4.0	04/19/23 08:24	M1
EPA 9056A	Fluoride	0.19	mg/L	0.10	04/18/23 15:33	M1
EPA 9056A	Sulfate	182	mg/L	4.0	04/19/23 08:24	
92662485002	**041323NMW1D**					
EPA 6010	Barium	28.1	ug/L	10.0	04/21/23 12:45	
EPA 6010	Beryllium	1.4J	ug/L	4.0	04/21/23 12:45	
EPA 6010	Boron	61.0	ug/L	50.0	04/21/23 12:45	
EPA 6010	Calcium	13300	ug/L	500	04/21/23 12:45	
EPA 6020B	Arsenic	0.46J	ug/L	1.0	04/24/23 23:33	
EPA 6020B	Cobalt	15.8	ug/L	1.0	04/24/23 23:33	
EPA 6020B	Lead	0.66J	ug/L	1.0	04/24/23 23:33	
EPA 6020B	Lithium	8.8	ug/L	2.5	04/24/23 23:33	
EPA 6020B	Molybdenum	0.25J	ug/L	1.0	04/24/23 23:33	
EPA 6020B	Thallium	0.25	ug/L	0.20	04/24/23 23:33	
SM 2540C-2011	Total Dissolved Solids	176	mg/L	25.0	04/18/23 14:11	
EPA 9056A	Chloride	21.5	mg/L	1.0	04/18/23 16:23	
EPA 9056A	Fluoride	0.15	mg/L	0.10	04/18/23 16:23	
EPA 9056A	Sulfate	62.9	mg/L	1.0	04/18/23 16:23	
92662485003	**041323NMW2**					
EPA 6010	Barium	109	ug/L	10.0	04/21/23 12:49	
EPA 6010	Beryllium	0.52J	ug/L	4.0	04/21/23 12:49	
EPA 6010	Boron	1340	ug/L	50.0	04/21/23 12:49	
EPA 6010	Calcium	33600	ug/L	500	04/21/23 12:49	
EPA 6020B	Arsenic	0.39J	ug/L	1.0	04/24/23 23:37	
EPA 6020B	Cobalt	13.1	ug/L	1.0	04/24/23 23:37	
EPA 6020B	Lead	0.67J	ug/L	1.0	04/24/23 23:37	
EPA 6020B	Lithium	5.2	ug/L	2.5	04/24/23 23:37	
SM 2540C-2011	Total Dissolved Solids	294	mg/L	25.0	04/18/23 14:11	
EPA 9056A	Chloride	17.9	mg/L	1.0	04/18/23 16:39	
EPA 9056A	Fluoride	0.19	mg/L	0.10	04/18/23 16:39	
EPA 9056A	Sulfate	98.7	mg/L	1.0	04/18/23 16:39	
92662485004	**041323NMW3**					
EPA 6010	Barium	151	ug/L	10.0	04/21/23 12:53	
EPA 6010	Boron	862	ug/L	50.0	04/21/23 12:53	
EPA 6010	Calcium	70900	ug/L	500	04/21/23 12:53	
EPA 6020B	Arsenic	0.37J	ug/L	1.0	04/26/23 02:19	
EPA 6020B	Cobalt	7.7	ug/L	1.0	04/26/23 02:19	
EPA 6020B	Lithium	19.2	ug/L	2.5	04/26/23 02:19	
EPA 6020B	Molybdenum	39.9	ug/L	1.0	04/26/23 02:19	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662485004	**041323NMW3**					
EPA 6020B	Thallium	0.17J	ug/L	0.20	04/26/23 02:19	
SM 2540C-2011	Total Dissolved Solids	318	mg/L	25.0	04/18/23 14:12	
EPA 9056A	Chloride	7.2	mg/L	1.0	04/18/23 16:56	
EPA 9056A	Fluoride	1.2	mg/L	0.10	04/18/23 16:56	
EPA 9056A	Sulfate	47.4	mg/L	1.0	04/18/23 16:56	
92662485005	**041323NMW3D**					
EPA 6010	Barium	32.6	ug/L	10.0	04/21/23 12:56	
EPA 6010	Boron	2280	ug/L	50.0	04/21/23 12:56	
EPA 6010	Calcium	7060	ug/L	500	04/21/23 12:56	
EPA 6020B	Arsenic	0.68J	ug/L	1.0	04/26/23 02:23	
EPA 6020B	Cobalt	0.059J	ug/L	1.0	04/26/23 02:23	
EPA 6020B	Lithium	30.5	ug/L	2.5	04/26/23 02:23	
EPA 6020B	Molybdenum	13.4	ug/L	1.0	04/26/23 02:23	
SM 2540C-2011	Total Dissolved Solids	722	mg/L	25.0	04/18/23 14:12	
EPA 9056A	Chloride	33.5	mg/L	1.0	04/18/23 17:12	
EPA 9056A	Fluoride	0.60	mg/L	0.10	04/18/23 17:12	
EPA 9056A	Sulfate	132	mg/L	3.0	04/19/23 09:13	
92662485006	**041323NMW4**					
EPA 6010	Barium	19.0	ug/L	10.0	04/21/23 13:00	
EPA 6010	Boron	1770	ug/L	50.0	04/21/23 13:00	
EPA 6010	Calcium	82400	ug/L	500	04/21/23 13:00	
EPA 6020B	Arsenic	0.34J	ug/L	1.0	04/26/23 02:27	
EPA 6020B	Cobalt	78.6	ug/L	1.0	04/26/23 02:27	
EPA 6020B	Lead	0.18J	ug/L	1.0	04/26/23 02:27	
EPA 6020B	Lithium	72.2	ug/L	2.5	04/26/23 02:27	
EPA 6020B	Thallium	0.25	ug/L	0.20	04/26/23 02:27	
SM 2540C-2011	Total Dissolved Solids	709	mg/L	25.0	04/18/23 14:12	
EPA 9056A	Chloride	2.2	mg/L	1.0	04/18/23 17:28	
EPA 9056A	Fluoride	0.097J	mg/L	0.10	04/18/23 17:28	
EPA 9056A	Sulfate	384	mg/L	8.0	04/19/23 09:46	
92662485007	**041323NMW5**					
EPA 6010	Barium	14.0	ug/L	10.0	04/21/23 13:04	
EPA 6010	Beryllium	0.24J	ug/L	4.0	04/21/23 13:04	
EPA 6010	Boron	1530	ug/L	50.0	04/21/23 13:04	
EPA 6010	Calcium	103000	ug/L	500	04/21/23 13:04	
EPA 6020B	Arsenic	0.53J	ug/L	1.0	04/26/23 02:31	
EPA 6020B	Cobalt	26.1	ug/L	1.0	04/26/23 02:31	
EPA 6020B	Lead	0.083J	ug/L	1.0	04/26/23 02:31	
EPA 6020B	Lithium	47.4	ug/L	2.5	04/26/23 02:31	
EPA 6020B	Thallium	0.075J	ug/L	0.20	04/26/23 02:31	
SM 2540C-2011	Total Dissolved Solids	908	mg/L	25.0	04/18/23 14:12	
EPA 9056A	Chloride	5.7	mg/L	1.0	04/18/23 18:18	
EPA 9056A	Fluoride	0.070J	mg/L	0.10	04/18/23 18:18	
EPA 9056A	Sulfate	547	mg/L	12.0	04/19/23 10:02	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662485008	**041323NMW6**					
EPA 6010	Barium	28.8	ug/L	10.0	04/21/23 13:08	
EPA 6010	Beryllium	0.19J	ug/L	4.0	04/21/23 13:08	
EPA 6010	Boron	1450	ug/L	50.0	04/21/23 13:08	
EPA 6010	Calcium	66500	ug/L	500	04/21/23 13:08	
EPA 6020B	Arsenic	0.13J	ug/L	1.0	04/26/23 02:34	
EPA 6020B	Cobalt	0.33J	ug/L	1.0	04/26/23 02:34	
EPA 6020B	Lithium	154	ug/L	2.5	04/26/23 02:34	
EPA 6020B	Molybdenum	0.18J	ug/L	1.0	04/26/23 02:34	
SM 2540C-2011	Total Dissolved Solids	930	mg/L	25.0	04/18/23 14:12	
EPA 9056A	Chloride	5.1	mg/L	1.0	04/18/23 18:36	
EPA 9056A	Fluoride	0.097J	mg/L	0.10	04/18/23 18:36	
EPA 9056A	Sulfate	501	mg/L	11.0	04/19/23 11:08	
92662485009	**041323NMW6D**					
EPA 6010	Barium	22.6	ug/L	10.0	04/21/23 13:11	
EPA 6010	Boron	1960	ug/L	50.0	04/21/23 13:11	
EPA 6010	Calcium	85300	ug/L	500	04/21/23 13:11	
EPA 6020B	Arsenic	0.52J	ug/L	1.0	04/26/23 02:38	
EPA 6020B	Cobalt	70.4	ug/L	1.0	04/26/23 02:38	
EPA 6020B	Lead	0.54J	ug/L	1.0	04/26/23 02:38	
EPA 6020B	Lithium	145	ug/L	2.5	04/26/23 02:38	
EPA 6020B	Molybdenum	1.8	ug/L	1.0	04/26/23 02:38	
EPA 6020B	Thallium	0.081J	ug/L	0.20	04/26/23 02:38	
SM 2540C-2011	Total Dissolved Solids	1260	mg/L	50.0	04/18/23 14:13	
EPA 9056A	Chloride	5.4	mg/L	1.0	04/18/23 18:53	
EPA 9056A	Fluoride	0.18	mg/L	0.10	04/18/23 18:53	
EPA 9056A	Sulfate	649	mg/L	14.0	04/19/23 11:24	
92662485010	**041323NMW10**					
EPA 6010	Barium	187	ug/L	10.0	04/21/23 13:23	
EPA 6010	Beryllium	0.20J	ug/L	4.0	04/21/23 13:23	
EPA 6010	Boron	265	ug/L	50.0	04/21/23 13:23	
EPA 6010	Cadmium	0.74J	ug/L	1.0	04/21/23 13:23	
EPA 6010	Calcium	42400	ug/L	500	04/21/23 13:23	
EPA 6020B	Arsenic	6.1	ug/L	1.0	04/26/23 02:42	
EPA 6020B	Cobalt	11.0	ug/L	1.0	04/26/23 02:42	
EPA 6020B	Lithium	1.6J	ug/L	2.5	04/26/23 02:42	
EPA 6020B	Molybdenum	4.6	ug/L	1.0	04/26/23 02:42	
SM 2540C-2011	Total Dissolved Solids	313	mg/L	25.0	04/18/23 14:14	
EPA 9056A	Chloride	16.2	mg/L	1.0	04/18/23 19:09	
EPA 9056A	Fluoride	0.20	mg/L	0.10	04/18/23 19:09	
EPA 9056A	Sulfate	43.8	mg/L	1.0	04/18/23 19:09	
92662485011	**041323NMW11**					
EPA 6010	Barium	163	ug/L	10.0	04/21/23 13:26	
EPA 6010	Beryllium	0.17J	ug/L	4.0	04/21/23 13:26	
EPA 6010	Boron	1190	ug/L	50.0	04/21/23 13:26	
EPA 6010	Cadmium	0.47J	ug/L	1.0	04/21/23 13:26	
EPA 6010	Calcium	100000	ug/L	500	04/21/23 13:26	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662485011	**041323NMW11**					
EPA 6020B	Arsenic	9.1	ug/L	1.0	04/26/23 02:46	
EPA 6020B	Cobalt	6.7	ug/L	1.0	04/26/23 02:46	
EPA 6020B	Lithium	0.51J	ug/L	2.5	04/26/23 02:46	
EPA 6020B	Molybdenum	1.5	ug/L	1.0	04/26/23 02:46	
SM 2540C-2011	Total Dissolved Solids	453	mg/L	25.0	04/18/23 14:14	
EPA 9056A	Chloride	8.8	mg/L	1.0	04/18/23 19:25	
EPA 9056A	Fluoride	0.17	mg/L	0.10	04/18/23 19:25	M1
EPA 9056A	Sulfate	50.2	mg/L	1.0	04/18/23 19:25	
92662485012	**041323NMW12**					
EPA 6010	Barium	62.6	ug/L	10.0	04/21/23 13:30	
EPA 6010	Beryllium	0.19J	ug/L	4.0	04/21/23 13:30	
EPA 6010	Boron	1490	ug/L	50.0	04/21/23 13:30	
EPA 6010	Cadmium	0.38J	ug/L	1.0	04/21/23 13:30	
EPA 6010	Calcium	136000	ug/L	500	04/21/23 13:30	
EPA 6020B	Arsenic	8.4	ug/L	1.0	04/26/23 02:50	
EPA 6020B	Cobalt	14.3	ug/L	1.0	04/26/23 02:50	
EPA 6020B	Lead	0.32J	ug/L	1.0	04/26/23 02:50	
EPA 6020B	Lithium	0.80J	ug/L	2.5	04/26/23 02:50	
EPA 6020B	Molybdenum	1.1	ug/L	1.0	04/26/23 02:50	
SM 2540C-2011	Total Dissolved Solids	705	mg/L	25.0	04/18/23 14:14	
EPA 9056A	Chloride	15.2	mg/L	1.0	04/18/23 20:15	
EPA 9056A	Fluoride	0.17	mg/L	0.10	04/18/23 20:15	
EPA 9056A	Sulfate	221	mg/L	5.0	04/19/23 11:40	
92662485013	**041323NMW16D**					
EPA 6010	Barium	21.6	ug/L	10.0	04/21/23 13:34	
EPA 6010	Boron	340	ug/L	50.0	04/21/23 13:34	
EPA 6010	Calcium	44700	ug/L	500	04/21/23 13:34	
EPA 6020B	Arsenic	0.15J	ug/L	1.0	04/26/23 02:54	
EPA 6020B	Cobalt	0.43J	ug/L	1.0	04/26/23 02:54	
EPA 6020B	Lithium	17.2	ug/L	2.5	04/26/23 02:54	
EPA 6020B	Molybdenum	0.27J	ug/L	1.0	04/26/23 02:54	
SM 2540C-2011	Total Dissolved Solids	314	mg/L	25.0	04/18/23 14:14	
EPA 9056A	Chloride	40.8	mg/L	1.0	04/18/23 20:31	
EPA 9056A	Fluoride	0.12	mg/L	0.10	04/18/23 20:31	
EPA 9056A	Sulfate	99.0	mg/L	2.0	04/19/23 11:57	
92662485014	**041323NMW17S**					
EPA 6010	Barium	132	ug/L	10.0	04/21/23 13:38	
EPA 6010	Beryllium	0.18J	ug/L	4.0	04/21/23 13:38	
EPA 6010	Boron	2380	ug/L	50.0	04/21/23 13:38	
EPA 6010	Cadmium	0.60J	ug/L	1.0	04/21/23 13:38	
EPA 6010	Calcium	232000	ug/L	500	04/21/23 13:38	
EPA 6020B	Arsenic	17.5	ug/L	1.0	04/26/23 03:06	
EPA 6020B	Cobalt	12.6	ug/L	1.0	04/26/23 03:06	
EPA 6020B	Molybdenum	13.8	ug/L	1.0	04/26/23 03:06	
EPA 6020B	Thallium	0.37	ug/L	0.20	04/26/23 03:06	
SM 2540C-2011	Total Dissolved Solids	968	mg/L	50.0	04/18/23 14:14	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662485014	**041323NMW17S**					
EPA 9056A	Chloride	92.1	mg/L	1.0	04/18/23 20:48	
EPA 9056A	Fluoride	0.31	mg/L	0.10	04/18/23 20:48	
EPA 9056A	Sulfate	143	mg/L	3.0	04/19/23 12:13	
92662485016	**041323FDUAP2**					
EPA 6010	Barium	135	ug/L	10.0	04/21/23 13:45	
EPA 6010	Beryllium	0.18J	ug/L	4.0	04/21/23 13:45	
EPA 6010	Boron	2420	ug/L	50.0	04/21/23 13:45	
EPA 6010	Cadmium	0.45J	ug/L	1.0	04/21/23 13:45	
EPA 6010	Calcium	236000	ug/L	500	04/21/23 13:45	
EPA 6020B	Arsenic	16.8	ug/L	1.0	04/26/23 03:13	
EPA 6020B	Cobalt	12.8	ug/L	1.0	04/26/23 03:13	
EPA 6020B	Molybdenum	13.7	ug/L	1.0	04/26/23 03:13	
EPA 6020B	Thallium	0.36	ug/L	0.20	04/26/23 03:13	
SM 2540C-2011	Total Dissolved Solids	970	mg/L	50.0	04/18/23 14:15	
EPA 9056A	Chloride	92.6	mg/L	1.0	04/18/23 22:15	
EPA 9056A	Fluoride	0.32	mg/L	0.10	04/18/23 22:15	
EPA 9056A	Sulfate	143	mg/L	3.0	04/19/23 12:29	
92662559001	**041423NMW7**					
EPA 6010	Barium	79.3	ug/L	10.0	04/24/23 00:51	
EPA 6010	Boron	41.4J	ug/L	50.0	04/24/23 00:51	
EPA 6010	Calcium	15000	ug/L	500	04/24/23 00:51	
EPA 6020B	Arsenic	0.70J	ug/L	1.0	04/26/23 01:25	
EPA 6020B	Cobalt	6.0	ug/L	1.0	04/26/23 01:25	
EPA 6020B	Lithium	10.6	ug/L	2.5	04/26/23 01:25	
EPA 6020B	Molybdenum	0.34J	ug/L	1.0	04/26/23 01:25	
SM 2540C-2011	Total Dissolved Solids	203	mg/L	25.0	04/18/23 14:15	
EPA 9056A	Chloride	9.7	mg/L	1.0	04/18/23 22:48	
EPA 9056A	Fluoride	0.15	mg/L	0.10	04/18/23 22:48	
EPA 9056A	Sulfate	57.9	mg/L	1.0	04/18/23 22:48	
92662559002	**041423NMW8R**					
EPA 6010	Barium	227	ug/L	10.0	04/24/23 00:55	
EPA 6010	Beryllium	0.17J	ug/L	4.0	04/24/23 00:55	
EPA 6010	Boron	1260	ug/L	50.0	04/24/23 00:55	
EPA 6010	Cadmium	1.0	ug/L	1.0	04/24/23 00:55	
EPA 6010	Calcium	90900	ug/L	500	04/24/23 00:55	
EPA 6020B	Arsenic	16.4	ug/L	1.0	04/26/23 01:29	
EPA 6020B	Cobalt	1.4	ug/L	1.0	04/26/23 01:29	
EPA 6020B	Lead	0.12J	ug/L	1.0	04/26/23 01:29	
EPA 6020B	Molybdenum	3.9	ug/L	1.0	04/26/23 01:29	
SM 2540C-2011	Total Dissolved Solids	585	mg/L	25.0	04/18/23 14:15	
EPA 9056A	Chloride	10.1	mg/L	1.0	04/18/23 23:04	
EPA 9056A	Fluoride	0.29	mg/L	0.10	04/18/23 23:04	
EPA 9056A	Sulfate	146	mg/L	3.0	04/19/23 12:46	
92661765001	**041123NMWB31**					
EPA 6010	Barium	13.8	ug/L	10.0	04/19/23 06:41	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92661765001	**041123NMWB31**					
EPA 6010	Calcium	2970	ug/L	500	04/19/23 06:41	
EPA 6020B	Cobalt	0.10J	ug/L	1.0	04/24/23 20:58	
EPA 6020B	Lithium	1.1J	ug/L	2.5	04/24/23 20:58	
EPA 9056A	Chloride	3.3	mg/L	1.0	04/14/23 07:42	
EPA 9056A	Fluoride	0.066J	mg/L	0.10	04/14/23 07:42	
EPA 9056A	Sulfate	5.8	mg/L	1.0	04/14/23 07:42	
92661765002	**041123NMWB32**					
EPA 6010	Barium	38.2	ug/L	10.0	04/19/23 06:45	
EPA 6010	Boron	2530	ug/L	50.0	04/19/23 06:45	
EPA 6010	Calcium	235000	ug/L	500	04/19/23 06:45	
EPA 6020B	Arsenic	0.27J	ug/L	1.0	04/24/23 21:37	
EPA 6020B	Cobalt	5.9	ug/L	1.0	04/24/23 21:37	
EPA 6020B	Lead	0.22J	ug/L	1.0	04/24/23 21:37	
EPA 6020B	Lithium	6.8	ug/L	2.5	04/24/23 21:37	
EPA 6020B	Molybdenum	0.20J	ug/L	1.0	04/24/23 21:37	
EPA 6020B	Thallium	0.28	ug/L	0.20	04/24/23 21:37	
EPA 9056A	Chloride	105	mg/L	11.0	04/14/23 09:53	
EPA 9056A	Fluoride	0.23	mg/L	0.10	04/14/23 07:58	
EPA 9056A	Sulfate	542	mg/L	11.0	04/14/23 09:53	
92662061001	**041223NMW9R**					
EPA 6010	Barium	127	ug/L	10.0	04/19/23 09:19	
EPA 6010	Beryllium	0.17J	ug/L	4.0	04/19/23 09:19	
EPA 6010	Boron	189	ug/L	50.0	04/19/23 09:19	
EPA 6010	Cadmium	0.42J	ug/L	1.0	04/19/23 09:19	
EPA 6010	Calcium	41900	ug/L	500	04/19/23 09:19	
EPA 6020B	Arsenic	6.6	ug/L	1.0	04/24/23 21:49	
EPA 6020B	Cobalt	4.5	ug/L	1.0	04/24/23 21:49	
EPA 6020B	Lithium	1.1J	ug/L	2.5	04/24/23 21:49	
EPA 6020B	Molybdenum	0.46J	ug/L	1.0	04/24/23 21:49	
SM 2540C-2011	Total Dissolved Solids	268	mg/L	25.0	04/14/23 20:12	
EPA 9056A	Chloride	9.2	mg/L	1.0	04/15/23 19:27	
EPA 9056A	Fluoride	0.18	mg/L	0.10	04/15/23 19:27	
EPA 9056A	Sulfate	43.2	mg/L	1.0	04/15/23 19:27	
92662118001	**041223NMW13**					
EPA 6010	Barium	27.5	ug/L	10.0	04/19/23 13:21	
EPA 6010	Beryllium	28.7	ug/L	4.0	04/19/23 13:21	
EPA 6010	Boron	1850	ug/L	50.0	04/19/23 13:21	
EPA 6010	Cadmium	0.82J	ug/L	1.0	04/19/23 13:21	
EPA 6010	Calcium	255000	ug/L	500	04/19/23 13:21	
EPA 6010	Chromium	6.9	ug/L	5.0	04/19/23 13:21	
EPA 6010	Selenium	16.1	ug/L	15.0	04/19/23 13:21	
EPA 6020B	Arsenic	125	ug/L	1.0	04/26/23 23:37	
EPA 6020B	Cobalt	380	ug/L	5.0	04/27/23 20:17	
EPA 6020B	Lithium	143	ug/L	2.5	04/26/23 23:37	
EPA 6020B	Molybdenum	6.1	ug/L	1.0	04/26/23 23:37	
EPA 6020B	Thallium	0.40	ug/L	0.20	04/26/23 23:37	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662118001	**041223NMW13**					
SM 2540C-2011	Total Dissolved Solids	2160	mg/L	50.0	04/14/23 20:18	
EPA 9056A	Chloride	54.8	mg/L	1.0	04/14/23 19:45	
EPA 9056A	Fluoride	0.20	mg/L	0.10	04/14/23 19:45	
EPA 9056A	Sulfate	1190	mg/L	22.0	04/15/23 16:36	
92662118002	**041223NMW14**					
EPA 6010	Barium	19.0	ug/L	10.0	04/19/23 15:39	
EPA 6010	Boron	36.1J	ug/L	50.0	04/19/23 15:39	
EPA 6010	Calcium	7120	ug/L	500	04/19/23 15:39	
EPA 6020B	Arsenic	0.14J	ug/L	1.0	04/26/23 23:41	
EPA 6020B	Cobalt	0.47J	ug/L	1.0	04/26/23 23:41	
EPA 6020B	Lithium	10.9	ug/L	2.5	04/27/23 20:21	
EPA 6020B	Molybdenum	0.14J	ug/L	1.0	04/26/23 23:41	
SM 2540C-2011	Total Dissolved Solids	109	mg/L	25.0	04/14/23 20:18	
EPA 9056A	Chloride	1.6	mg/L	1.0	04/14/23 20:00	
EPA 9056A	Fluoride	0.097J	mg/L	0.10	04/14/23 20:00	
EPA 9056A	Sulfate	15.1	mg/L	1.0	04/14/23 20:00	
92662118003	**041223NMW15**					
EPA 6010	Barium	51.4	ug/L	10.0	04/19/23 13:24	
EPA 6010	Boron	466	ug/L	50.0	04/19/23 13:24	
EPA 6010	Calcium	81000	ug/L	500	04/19/23 13:24	
EPA 6020B	Cobalt	40.8	ug/L	1.0	04/27/23 00:11	
EPA 6020B	Lead	0.094J	ug/L	1.0	04/27/23 00:11	
EPA 6020B	Lithium	22.6	ug/L	2.5	04/27/23 20:40	
EPA 6020B	Molybdenum	0.23J	ug/L	1.0	04/27/23 00:11	
EPA 6020B	Thallium	0.19J	ug/L	0.20	04/27/23 00:11	
SM 2540C-2011	Total Dissolved Solids	641	mg/L	25.0	04/14/23 20:18	
EPA 9056A	Chloride	80.9	mg/L	1.0	04/14/23 21:12	
EPA 9056A	Fluoride	0.089J	mg/L	0.10	04/14/23 21:12	
EPA 9056A	Sulfate	233	mg/L	4.0	04/15/23 16:50	
92662118004	**041223NMW16**					
EPA 6010	Barium	31.4	ug/L	10.0	04/19/23 13:06	
EPA 6010	Boron	4170	ug/L	50.0	04/19/23 13:06	
EPA 6010	Calcium	537000	ug/L	2500	04/20/23 09:08	
EPA 6020B	Cobalt	26.7	ug/L	1.0	04/27/23 00:16	
EPA 6020B	Lithium	149	ug/L	2.5	04/27/23 20:52	
EPA 6020B	Molybdenum	11.5	ug/L	1.0	04/27/23 00:16	
EPA 6020B	Thallium	0.54	ug/L	0.20	04/27/23 00:16	
SM 2540C-2011	Total Dissolved Solids	2620	mg/L	50.0	04/14/23 20:18	
EPA 9056A	Chloride	377	mg/L	18.0	04/15/23 17:04	
EPA 9056A	Fluoride	0.38	mg/L	0.10	04/14/23 21:26	
EPA 9056A	Sulfate	985	mg/L	18.0	04/15/23 17:04	
92662118005	**041223NMW30U**					
EPA 6010	Barium	70.3	ug/L	10.0	04/19/23 13:10	
EPA 6010	Boron	130	ug/L	50.0	04/19/23 13:10	
EPA 6010	Calcium	8090	ug/L	500	04/19/23 13:10	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662118005	**041223NMW30U**					
EPA 6020B	Cobalt	0.065J	ug/L	1.0	04/27/23 00:21	
EPA 6020B	Lithium	10.1	ug/L	2.5	04/27/23 20:56	
SM 2540C-2011	Total Dissolved Solids	159	mg/L	25.0	04/16/23 14:57	
EPA 9056A	Chloride	7.3	mg/L	1.0	04/15/23 02:58	
EPA 9056A	Fluoride	0.13	mg/L	0.10	04/15/23 02:58	
92662118006	**041223NMW35D**					
EPA 6010	Barium	36.6	ug/L	10.0	04/19/23 13:14	
EPA 6010	Boron	105	ug/L	50.0	04/19/23 13:14	
EPA 6010	Calcium	8320	ug/L	500	04/19/23 13:14	
EPA 6020B	Arsenic	0.090J	ug/L	1.0	04/27/23 00:25	
EPA 6020B	Cobalt	0.11J	ug/L	1.0	04/27/23 00:25	
EPA 6020B	Lithium	11.3	ug/L	2.5	04/27/23 21:00	
EPA 6020B	Molybdenum	0.55J	ug/L	1.0	04/27/23 00:25	
SM 2540C-2011	Total Dissolved Solids	150	mg/L	25.0	04/16/23 14:57	
EPA 9056A	Chloride	9.9	mg/L	1.0	04/15/23 03:13	
EPA 9056A	Fluoride	0.20	mg/L	0.10	04/15/23 03:13	
EPA 9056A	Sulfate	5.5	mg/L	1.0	04/15/23 03:13	
92662118007	**041223FDUAP1**					
EPA 6010	Barium	52.4	ug/L	10.0	04/19/23 13:17	
EPA 6010	Beryllium	0.17J	ug/L	4.0	04/19/23 13:17	
EPA 6010	Boron	493	ug/L	50.0	04/19/23 13:17	
EPA 6010	Calcium	84300	ug/L	500	04/19/23 13:17	
EPA 6020B	Cobalt	39.8	ug/L	1.0	04/27/23 00:29	
EPA 6020B	Lithium	22.1	ug/L	2.5	04/27/23 21:04	
EPA 6020B	Molybdenum	0.16J	ug/L	1.0	04/27/23 00:29	
EPA 6020B	Thallium	0.20J	ug/L	0.20	04/27/23 00:29	
SM 2540C-2011	Total Dissolved Solids	594	mg/L	25.0	04/16/23 14:58	
EPA 9056A	Chloride	81.3	mg/L	1.0	04/15/23 03:27	
EPA 9056A	Fluoride	0.081J	mg/L	0.10	04/15/23 03:27	
EPA 9056A	Sulfate	231	mg/L	4.0	04/15/23 17:19	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: July 21, 2023

General Information:
28 samples were analyzed for EPA 6010 by Pace Analytical Services Ormond Beach. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 910394

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 35793185013

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

- MS (Lab ID: 5004503)
  - Calcium
- MSD (Lab ID: 5004504)
  - Calcium

Additional Comments:

Analyte Comments:

QC Batch: 910394

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 5004503)
  - Calcium
- MSD (Lab ID: 5004504)
  - Calcium

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: July 21, 2023

General Information:
28 samples were analyzed for EPA 6020B by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: July 21, 2023

General Information:
28 samples were analyzed for EPA 7470A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: July 21, 2023

General Information:
26 samples were analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: July 21, 2023

General Information:
28 samples were analyzed for EPA 9056A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 767989

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92661755004,92661924001

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

- MS (Lab ID: 3987646)
  - Fluoride
- MS (Lab ID: 3987648)
  - Fluoride
- MSD (Lab ID: 3987647)
  - Fluoride
- MSD (Lab ID: 3987649)
  - Fluoride

QC Batch: 768601

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92662485001,92662485011

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

- MS (Lab ID: 3990419)
  - Chloride
- MS (Lab ID: 3990421)
  - Fluoride
- MSD (Lab ID: 3990420)
  - Chloride
  - Fluoride
- MSD (Lab ID: 3990422)
  - Fluoride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NWM1 **Lab ID: 92662485001** Collected: 04/13/23 10:40 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**158**	ug/L	10.0	0.84	1	04/24/23 22:51	04/25/23 18:16	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/24/23 22:51	04/25/23 18:16	7440-41-7	
Boron	**3020**	ug/L	50.0	12.4	1	04/24/23 22:51	04/25/23 18:16	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/24/23 22:51	04/25/23 18:16	7440-43-9	
Calcium	**173000**	ug/L	500	190	1	04/24/23 22:51	04/25/23 18:16	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/24/23 22:51	04/25/23 18:16	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/24/23 22:51	04/25/23 18:16	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 23:14	7440-36-0	
Arsenic	**0.22J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 23:14	7440-38-2	
Cobalt	**4.3**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 23:14	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 23:14	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 23:14	7439-93-2	
Molybdenum	**0.41J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 23:14	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 23:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1070**	mg/L	50.0	50.0	1		04/18/23 14:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**182**	mg/L	4.0	2.4	4		04/19/23 08:24	16887-00-6	M1
Fluoride	**0.19**	mg/L	0.10	0.050	1		04/18/23 15:33	16984-48-8	M1
Sulfate	**182**	mg/L	4.0	2.0	4		04/19/23 08:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW1D **Lab ID: 92662485002** Collected: 04/13/23 12:35 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**28.1**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 12:45	7440-39-3	
Beryllium	**1.4J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 12:45	7440-41-7	
Boron	**61.0**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 12:45	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 12:45	7440-43-9	
Calcium	**13300**	ug/L	500	190	1	04/21/23 05:33	04/21/23 12:45	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 12:45	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 12:45	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 23:33	7440-36-0	
Arsenic	**0.46J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 23:33	7440-38-2	
Cobalt	**15.8**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 23:33	7440-48-4	
Lead	**0.66J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 23:33	7439-92-1	
Lithium	**8.8**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 23:33	7439-93-2	
Molybdenum	**0.25J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 23:33	7439-98-7	
Thallium	**0.25**	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 23:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**176**	mg/L	25.0	25.0	1		04/18/23 14:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**21.5**	mg/L	1.0	0.60	1		04/18/23 16:23	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		04/18/23 16:23	16984-48-8	
Sulfate	**62.9**	mg/L	1.0	0.50	1		04/18/23 16:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW2 **Lab ID: 92662485003** Collected: 04/13/23 12:50 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**109**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 12:49	7440-39-3	
Beryllium	**0.52J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 12:49	7440-41-7	
Boron	**1340**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 12:49	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 12:49	7440-43-9	
Calcium	**33600**	ug/L	500	190	1	04/21/23 05:33	04/21/23 12:49	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 12:49	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 12:49	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 23:37	7440-36-0	
Arsenic	**0.39J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 23:37	7440-38-2	
Cobalt	**13.1**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 23:37	7440-48-4	
Lead	**0.67J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 23:37	7439-92-1	
Lithium	**5.2**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 23:37	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 23:37	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 23:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**294**	mg/L	25.0	25.0	1		04/18/23 14:11		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**17.9**	mg/L	1.0	0.60	1		04/18/23 16:39	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		04/18/23 16:39	16984-48-8	
Sulfate	**98.7**	mg/L	1.0	0.50	1		04/18/23 16:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW3 **Lab ID: 92662485004** Collected: 04/13/23 12:00 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**151**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 12:53	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 12:53	7440-41-7	
Boron	**862**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 12:53	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 12:53	7440-43-9	
Calcium	**70900**	ug/L	500	190	1	04/21/23 05:33	04/21/23 12:53	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 12:53	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 12:53	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:19	7440-36-0	
Arsenic	**0.37J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:19	7440-38-2	
Cobalt	**7.7**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:19	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:19	7439-92-1	
Lithium	**19.2**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:19	7439-93-2	
Molybdenum	**39.9**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:19	7439-98-7	
Thallium	**0.17J**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**318**	mg/L	25.0	25.0	1		04/18/23 14:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		04/18/23 16:56	16887-00-6	
Fluoride	**1.2**	mg/L	0.10	0.050	1		04/18/23 16:56	16984-48-8	
Sulfate	**47.4**	mg/L	1.0	0.50	1		04/18/23 16:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW3D **Lab ID: 92662485005** Collected: 04/13/23 11:30 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**32.6**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 12:56	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 12:56	7440-41-7	
Boron	**2280**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 12:56	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 12:56	7440-43-9	
Calcium	**7060**	ug/L	500	190	1	04/21/23 05:33	04/21/23 12:56	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 12:56	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 12:56	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:23	7440-36-0	
Arsenic	**0.68J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:23	7440-38-2	
Cobalt	**0.059J**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:23	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:23	7439-92-1	
Lithium	**30.5**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:23	7439-93-2	
Molybdenum	**13.4**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:23	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**722**	mg/L	25.0	25.0	1		04/18/23 14:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**33.5**	mg/L	1.0	0.60	1		04/18/23 17:12	16887-00-6	
Fluoride	**0.60**	mg/L	0.10	0.050	1		04/18/23 17:12	16984-48-8	
Sulfate	**132**	mg/L	3.0	1.5	3		04/19/23 09:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW4 **Lab ID: 92662485006** Collected: 04/13/23 10:35 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**19.0**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:00	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:00	7440-41-7	
Boron	**1770**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:00	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:00	7440-43-9	
Calcium	**82400**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:00	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:00	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:00	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:27	7440-36-0	
Arsenic	**0.34J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:27	7440-38-2	
Cobalt	**78.6**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:27	7440-48-4	
Lead	**0.18J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:27	7439-92-1	
Lithium	**72.2**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:27	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:27	7439-98-7	
Thallium	**0.25**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**709**	mg/L	25.0	25.0	1		04/18/23 14:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		04/18/23 17:28	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		04/18/23 17:28	16984-48-8	
Sulfate	**384**	mg/L	8.0	4.0	8		04/19/23 09:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW5 **Lab ID: 92662485007** Collected: 04/13/23 09:40 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Ormond Beach								
Barium	**14.0**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:04	7440-39-3	
Beryllium	**0.24J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:04	7440-41-7	
Boron	**1530**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:04	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:04	7440-43-9	
Calcium	**103000**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:04	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:04	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:04	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
	Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:31	7440-36-0	
Arsenic	**0.53J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:31	7440-38-2	
Cobalt	**26.1**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:31	7440-48-4	
Lead	**0.083J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:31	7439-92-1	
Lithium	**47.4**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:31	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:31	7439-98-7	
Thallium	**0.075J**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011								
	Pace Analytical Services - Asheville								
Total Dissolved Solids	**908**	mg/L	25.0	25.0	1		04/18/23 14:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A								
	Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		04/18/23 18:18	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		04/18/23 18:18	16984-48-8	
Sulfate	**547**	mg/L	12.0	6.0	12		04/19/23 10:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW6 **Lab ID: 92662485008** Collected: 04/13/23 14:35 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**28.8**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:08	7440-39-3	
Beryllium	**0.19J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:08	7440-41-7	
Boron	**1450**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:08	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:08	7440-43-9	
Calcium	**66500**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:08	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:08	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:08	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:34	7440-36-0	
Arsenic	**0.13J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:34	7440-38-2	
Cobalt	**0.33J**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:34	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:34	7439-92-1	
Lithium	**154**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:34	7439-93-2	
Molybdenum	**0.18J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:34	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**930**	mg/L	25.0	25.0	1		04/18/23 14:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.1**	mg/L	1.0	0.60	1		04/18/23 18:36	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		04/18/23 18:36	16984-48-8	
Sulfate	**501**	mg/L	11.0	5.5	11		04/19/23 11:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW6D **Lab ID: 92662485009** Collected: 04/13/23 13:55 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**22.6**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:11	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:11	7440-41-7	
Boron	**1960**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:11	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:11	7440-43-9	
Calcium	**85300**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:11	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:11	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:11	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:38	7440-36-0	
Arsenic	**0.52J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:38	7440-38-2	
Cobalt	**70.4**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:38	7440-48-4	
Lead	**0.54J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:38	7439-92-1	
Lithium	**145**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:38	7439-93-2	
Molybdenum	**1.8**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:38	7439-98-7	
Thallium	**0.081J**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1260**	mg/L	50.0	50.0	1		04/18/23 14:13		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		04/18/23 18:53	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		04/18/23 18:53	16984-48-8	
Sulfate	**649**	mg/L	14.0	7.0	14		04/19/23 11:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW10 **Lab ID: 92662485010** Collected: 04/13/23 15:25 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**187**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:23	7440-39-3	
Beryllium	**0.20J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:23	7440-41-7	
Boron	**265**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:23	7440-42-8	
Cadmium	**0.74J**	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:23	7440-43-9	
Calcium	**42400**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:23	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:23	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:23	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:42	7440-36-0	
Arsenic	**6.1**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:42	7440-38-2	
Cobalt	**11.0**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:42	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:42	7439-92-1	
Lithium	**1.6J**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:42	7439-93-2	
Molybdenum	**4.6**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:42	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**313**	mg/L	25.0	25.0	1		04/18/23 14:14		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**16.2**	mg/L	1.0	0.60	1		04/18/23 19:09	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		04/18/23 19:09	16984-48-8	
Sulfate	**43.8**	mg/L	1.0	0.50	1		04/18/23 19:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW11 **Lab ID: 92662485011** Collected: 04/13/23 13:20 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**163**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:26	7440-39-3	
Beryllium	**0.17J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:26	7440-41-7	
Boron	**1190**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:26	7440-42-8	
Cadmium	**0.47J**	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:26	7440-43-9	
Calcium	**100000**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:26	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:26	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:26	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:46	7440-36-0	
Arsenic	**9.1**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:46	7440-38-2	
Cobalt	**6.7**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:46	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:46	7439-92-1	
Lithium	**0.51J**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:46	7439-93-2	
Molybdenum	**1.5**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:46	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**453**	mg/L	25.0	25.0	1		04/18/23 14:14		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**8.8**	mg/L	1.0	0.60	1		04/18/23 19:25	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		04/18/23 19:25	16984-48-8	M1
Sulfate	**50.2**	mg/L	1.0	0.50	1		04/18/23 19:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW12 **Lab ID: 92662485012** Collected: 04/13/23 11:50 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**62.6**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:30	7440-39-3	
Beryllium	**0.19J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:30	7440-41-7	
Boron	**1490**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:30	7440-42-8	
Cadmium	**0.38J**	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:30	7440-43-9	
Calcium	**136000**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:30	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:30	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:30	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:50	7440-36-0	
Arsenic	**8.4**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:50	7440-38-2	
Cobalt	**14.3**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:50	7440-48-4	
Lead	**0.32J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:50	7439-92-1	
Lithium	**0.80J**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:50	7439-93-2	
Molybdenum	**1.1**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:50	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**705**	mg/L	25.0	25.0	1		04/18/23 14:14		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**15.2**	mg/L	1.0	0.60	1		04/18/23 20:15	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		04/18/23 20:15	16984-48-8	
Sulfate	**221**	mg/L	5.0	2.5	5		04/19/23 11:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW16D **Lab ID: 92662485013** Collected: 04/13/23 09:50 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**21.6**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:34	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:34	7440-41-7	
Boron	**340**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:34	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:34	7440-43-9	
Calcium	**44700**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:34	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:34	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:34	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 02:54	7440-36-0	
Arsenic	**0.15J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 02:54	7440-38-2	
Cobalt	**0.43J**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 02:54	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 02:54	7439-92-1	
Lithium	**17.2**	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 02:54	7439-93-2	
Molybdenum	**0.27J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 02:54	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 02:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**314**	mg/L	25.0	25.0	1		04/18/23 14:14		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**40.8**	mg/L	1.0	0.60	1		04/18/23 20:31	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		04/18/23 20:31	16984-48-8	
Sulfate	**99.0**	mg/L	2.0	1.0	2		04/19/23 11:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323NMW17S **Lab ID: 92662485014** Collected: 04/13/23 13:40 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**132**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:38	7440-39-3	
Beryllium	**0.18J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:38	7440-41-7	
Boron	**2380**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:38	7440-42-8	
Cadmium	**0.60J**	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:38	7440-43-9	
Calcium	**232000**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:38	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:38	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:38	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 03:06	7440-36-0	
Arsenic	**17.5**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 03:06	7440-38-2	
Cobalt	**12.6**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 03:06	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 03:06	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 03:06	7439-93-2	
Molybdenum	**13.8**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 03:06	7439-98-7	
Thallium	**0.37**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 03:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**968**	mg/L	50.0	50.0	1		04/18/23 14:14		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**92.1**	mg/L	1.0	0.60	1		04/18/23 20:48	16887-00-6	
Fluoride	**0.31**	mg/L	0.10	0.050	1		04/18/23 20:48	16984-48-8	
Sulfate	**143**	mg/L	3.0	1.5	3		04/19/23 12:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323FBUAP **Lab ID: 92662485015** Collected: 04/13/23 10:20 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	ND	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:42	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:42	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:42	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:42	7440-43-9	
Calcium	ND	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:42	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:42	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:42	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 03:09	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 03:09	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 03:09	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 03:09	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 03:09	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 03:09	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 03:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		04/18/23 14:15		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/18/23 21:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/18/23 21:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/18/23 21:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041323FDUAP2 **Lab ID: 92662485016** Collected: 04/13/23 13:45 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**135**	ug/L	10.0	0.84	1	04/21/23 05:33	04/21/23 13:45	7440-39-3	
Beryllium	**0.18J**	ug/L	4.0	0.17	1	04/21/23 05:33	04/21/23 13:45	7440-41-7	
Boron	**2420**	ug/L	50.0	12.4	1	04/21/23 05:33	04/21/23 13:45	7440-42-8	
Cadmium	**0.45J**	ug/L	1.0	0.33	1	04/21/23 05:33	04/21/23 13:45	7440-43-9	
Calcium	**236000**	ug/L	500	190	1	04/21/23 05:33	04/21/23 13:45	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:33	04/21/23 13:45	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:33	04/21/23 13:45	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/26/23 03:13	7440-36-0	
Arsenic	**16.8**	ug/L	1.0	0.087	1	04/23/23 16:54	04/26/23 03:13	7440-38-2	
Cobalt	**12.8**	ug/L	1.0	0.050	1	04/23/23 16:54	04/26/23 03:13	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/26/23 03:13	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/23/23 16:54	04/26/23 03:13	7439-93-2	
Molybdenum	**13.7**	ug/L	1.0	0.13	1	04/23/23 16:54	04/26/23 03:13	7439-98-7	
Thallium	**0.36**	ug/L	0.20	0.050	1	04/23/23 16:54	04/26/23 03:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**970**	mg/L	50.0	50.0	1		04/18/23 14:15		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**92.6**	mg/L	1.0	0.60	1		04/18/23 22:15	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		04/18/23 22:15	16984-48-8	
Sulfate	**143**	mg/L	3.0	1.5	3		04/19/23 12:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041423NMW7 **Lab ID: 92662559001** Collected: 04/14/23 13:20 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**79.3**	ug/L	10.0	0.84	1	04/21/23 06:48	04/24/23 00:51	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 06:48	04/24/23 00:51	7440-41-7	
Boron	**41.4J**	ug/L	50.0	12.4	1	04/21/23 06:48	04/24/23 00:51	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 06:48	04/24/23 00:51	7440-43-9	
Calcium	**15000**	ug/L	500	190	1	04/21/23 06:48	04/24/23 00:51	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 06:48	04/24/23 00:51	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 06:48	04/24/23 00:51	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/24/23 11:09	04/26/23 01:25	7440-36-0	
Arsenic	**0.70J**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:25	7440-38-2	
Cobalt	**6.0**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:25	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:25	7439-92-1	
Lithium	**10.6**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:25	7439-93-2	
Molybdenum	**0.34J**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:25	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**203**	mg/L	25.0	25.0	1		04/18/23 14:15		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**9.7**	mg/L	1.0	0.60	1		04/18/23 22:48	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		04/18/23 22:48	16984-48-8	
Sulfate	**57.9**	mg/L	1.0	0.50	1		04/18/23 22:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041423NMW8R **Lab ID: 92662559002** Collected: 04/14/23 11:50 Received: 04/15/23 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Ormond Beach								
Barium	**227**	ug/L	10.0	0.84	1	04/21/23 06:48	04/24/23 00:55	7440-39-3	
Beryllium	**0.17J**	ug/L	4.0	0.17	1	04/21/23 06:48	04/24/23 00:55	7440-41-7	
Boron	**1260**	ug/L	50.0	12.4	1	04/21/23 06:48	04/24/23 00:55	7440-42-8	
Cadmium	**1.0**	ug/L	1.0	0.33	1	04/21/23 06:48	04/24/23 00:55	7440-43-9	
Calcium	**90900**	ug/L	500	190	1	04/21/23 06:48	04/24/23 00:55	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 06:48	04/24/23 00:55	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 06:48	04/24/23 00:55	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
	Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/24/23 11:09	04/26/23 01:29	7440-36-0	
Arsenic	**16.4**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:29	7440-38-2	
Cobalt	**1.4**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:29	7440-48-4	
Lead	**0.12J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:29	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:29	7439-93-2	
Molybdenum	**3.9**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:29	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 18:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011								
	Pace Analytical Services - Asheville								
Total Dissolved Solids	**585**	mg/L	25.0	25.0	1		04/18/23 14:15		
9056 IC anions 28 Days	Analytical Method: EPA 9056A								
	Pace Analytical Services - Asheville								
Chloride	**10.1**	mg/L	1.0	0.60	1		04/18/23 23:04	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	0.050	1		04/18/23 23:04	16984-48-8	
Sulfate	**146**	mg/L	3.0	1.5	3		04/19/23 12:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041123NMWB31 **Lab ID: 92661765001** Collected: 04/11/23 13:25 Received: 04/12/23 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**13.8**	ug/L	10.0	0.84	1	04/18/23 18:55	04/19/23 06:41	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 18:55	04/19/23 06:41	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 18:55	04/19/23 06:41	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 18:55	04/19/23 06:41	7440-43-9	
Calcium	**2970**	ug/L	500	190	1	04/18/23 18:55	04/19/23 06:41	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 18:55	04/19/23 06:41	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 18:55	04/19/23 06:41	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 20:58	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 20:58	7440-38-2	
Cobalt	**0.10J**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 20:58	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 20:58	7439-92-1	
Lithium	**1.1J**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 20:58	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 20:58	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 20:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:42	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		04/14/23 07:42	16887-00-6	
Fluoride	**0.066J**	mg/L	0.10	0.050	1		04/14/23 07:42	16984-48-8	
Sulfate	**5.8**	mg/L	1.0	0.50	1		04/14/23 07:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041123NMWB32 **Lab ID: 92661765002** Collected: 04/11/23 12:10 Received: 04/12/23 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**38.2**	ug/L	10.0	0.84	1	04/18/23 18:55	04/19/23 06:45	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 18:55	04/19/23 06:45	7440-41-7	
Boron	**2530**	ug/L	50.0	12.4	1	04/18/23 18:55	04/19/23 06:45	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 18:55	04/19/23 06:45	7440-43-9	
Calcium	**235000**	ug/L	500	190	1	04/18/23 18:55	04/19/23 06:45	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 18:55	04/19/23 06:45	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 18:55	04/19/23 06:45	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 21:37	7440-36-0	
Arsenic	**0.27J**	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 21:37	7440-38-2	
Cobalt	**5.9**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 21:37	7440-48-4	
Lead	**0.22J**	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 21:37	7439-92-1	
Lithium	**6.8**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 21:37	7439-93-2	
Molybdenum	**0.20J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 21:37	7439-98-7	
Thallium	**0.28**	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 21:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:49	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**105**	mg/L	11.0	6.6	11		04/14/23 09:53	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		04/14/23 07:58	16984-48-8	
Sulfate	**542**	mg/L	11.0	5.5	11		04/14/23 09:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW9R **Lab ID: 92662061001** Collected: 04/12/23 14:25 Received: 04/13/23 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**127**	ug/L	10.0	0.84	1	04/18/23 18:55	04/19/23 09:19	7440-39-3	
Beryllium	**0.17J**	ug/L	4.0	0.17	1	04/18/23 18:55	04/19/23 09:19	7440-41-7	
Boron	**189**	ug/L	50.0	12.4	1	04/18/23 18:55	04/19/23 09:19	7440-42-8	
Cadmium	**0.42J**	ug/L	1.0	0.33	1	04/18/23 18:55	04/19/23 09:19	7440-43-9	
Calcium	**41900**	ug/L	500	190	1	04/18/23 18:55	04/19/23 09:19	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 18:55	04/19/23 09:19	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 18:55	04/19/23 09:19	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/23/23 16:54	04/24/23 21:49	7440-36-0	
Arsenic	**6.6**	ug/L	1.0	0.087	1	04/23/23 16:54	04/24/23 21:49	7440-38-2	
Cobalt	**4.5**	ug/L	1.0	0.050	1	04/23/23 16:54	04/24/23 21:49	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/23/23 16:54	04/24/23 21:49	7439-92-1	
Lithium	**1.1J**	ug/L	2.5	0.50	1	04/23/23 16:54	04/24/23 21:49	7439-93-2	
Molybdenum	**0.46J**	ug/L	1.0	0.13	1	04/23/23 16:54	04/24/23 21:49	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/23/23 16:54	04/24/23 21:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/27/23 18:12	04/29/23 17:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**268**	mg/L	25.0	25.0	1		04/14/23 20:12		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**9.2**	mg/L	1.0	0.60	1		04/15/23 19:27	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		04/15/23 19:27	16984-48-8	
Sulfate	**43.2**	mg/L	1.0	0.50	1		04/15/23 19:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW13 **Lab ID: 92662118001** Collected: 04/12/23 10:05 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**27.5**	ug/L	10.0	0.84	1	04/19/23 02:10	04/19/23 13:21	7440-39-3	
Beryllium	**28.7**	ug/L	4.0	0.17	1	04/19/23 02:10	04/19/23 13:21	7440-41-7	
Boron	**1850**	ug/L	50.0	12.4	1	04/19/23 02:10	04/19/23 13:21	7440-42-8	
Cadmium	**0.82J**	ug/L	1.0	0.33	1	04/19/23 02:10	04/19/23 13:21	7440-43-9	
Calcium	**255000**	ug/L	500	190	1	04/19/23 02:10	04/19/23 13:21	7440-70-2	
Chromium	**6.9**	ug/L	5.0	1.7	1	04/19/23 02:10	04/19/23 13:21	7440-47-3	
Selenium	**16.1**	ug/L	15.0	3.9	1	04/19/23 02:10	04/19/23 13:21	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/26/23 23:37	7440-36-0	
Arsenic	**125**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:37	7440-38-2	
Cobalt	**380**	ug/L	5.0	0.25	5	04/26/23 14:34	04/27/23 20:17	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:37	7439-92-1	
Lithium	**143**	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:37	7439-93-2	
Molybdenum	**6.1**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:37	7439-98-7	
Thallium	**0.40**	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 12:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2160**	mg/L	50.0	50.0	1		04/14/23 20:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**54.8**	mg/L	1.0	0.60	1		04/14/23 19:45	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		04/14/23 19:45	16984-48-8	
Sulfate	**1190**	mg/L	22.0	11.0	22		04/15/23 16:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW14 **Lab ID: 92662118002** Collected: 04/12/23 11:10 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**19.0**	ug/L	10.0	0.84	1	04/19/23 07:52	04/19/23 15:39	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/19/23 07:52	04/19/23 15:39	7440-41-7	
Boron	**36.1J**	ug/L	50.0	12.4	1	04/19/23 07:52	04/19/23 15:39	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/19/23 07:52	04/19/23 15:39	7440-43-9	
Calcium	**7120**	ug/L	500	190	1	04/19/23 07:52	04/19/23 15:39	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/19/23 07:52	04/19/23 15:39	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/19/23 07:52	04/19/23 15:39	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/26/23 23:41	7440-36-0	
Arsenic	**0.14J**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:41	7440-38-2	
Cobalt	**0.47J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:41	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:41	7439-92-1	
Lithium	**10.9**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 20:21	7439-93-2	
Molybdenum	**0.14J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:41	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 12:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**109**	mg/L	25.0	25.0	1		04/14/23 20:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		04/14/23 20:00	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		04/14/23 20:00	16984-48-8	
Sulfate	**15.1**	mg/L	1.0	0.50	1		04/14/23 20:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW15 **Lab ID: 92662118003** Collected: 04/12/23 12:15 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**51.4**	ug/L	10.0	0.84	1	04/19/23 02:10	04/19/23 13:24	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/19/23 02:10	04/19/23 13:24	7440-41-7	
Boron	**466**	ug/L	50.0	12.4	1	04/19/23 02:10	04/19/23 13:24	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/19/23 02:10	04/19/23 13:24	7440-43-9	
Calcium	**81000**	ug/L	500	190	1	04/19/23 02:10	04/19/23 13:24	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/19/23 02:10	04/19/23 13:24	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/19/23 02:10	04/19/23 13:24	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/27/23 00:11	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:11	7440-38-2	
Cobalt	**40.8**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:11	7440-48-4	
Lead	**0.094J**	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:11	7439-92-1	
Lithium	**22.6**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 20:40	7439-93-2	
Molybdenum	**0.23J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:11	7439-98-7	
Thallium	**0.19J**	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 12:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**641**	mg/L	25.0	25.0	1		04/14/23 20:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**80.9**	mg/L	1.0	0.60	1		04/14/23 21:12	16887-00-6	
Fluoride	**0.089J**	mg/L	0.10	0.050	1		04/14/23 21:12	16984-48-8	
Sulfate	**233**	mg/L	4.0	2.0	4		04/15/23 16:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW16 **Lab ID: 92662118004** Collected: 04/12/23 13:00 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**31.4**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:06	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:06	7440-41-7	
Boron	**4170**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:06	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:06	7440-43-9	
Calcium	**537000**	ug/L	2500	950	5	04/18/23 23:52	04/20/23 09:08	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:06	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:06	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/27/23 00:16	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:16	7440-38-2	
Cobalt	**26.7**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:16	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:16	7439-92-1	
Lithium	**149**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 20:52	7439-93-2	
Molybdenum	**11.5**	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:16	7439-98-7	
Thallium	**0.54**	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 12:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2620**	mg/L	50.0	50.0	1		04/14/23 20:18		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**377**	mg/L	18.0	10.8	18		04/15/23 17:04	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	0.050	1		04/14/23 21:26	16984-48-8	
Sulfate	**985**	mg/L	18.0	9.0	18		04/15/23 17:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW30U **Lab ID: 92662118005** Collected: 04/12/23 12:35 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**70.3**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:10	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:10	7440-41-7	
Boron	**130**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:10	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:10	7440-43-9	
Calcium	**8090**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:10	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:10	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:10	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/27/23 00:21	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:21	7440-38-2	
Cobalt	**0.065J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:21	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:21	7439-92-1	
Lithium	**10.1**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 20:56	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:21	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 12:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		04/16/23 14:57		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		04/15/23 02:58	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		04/15/23 02:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/15/23 02:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223NMW35D **Lab ID: 92662118006** Collected: 04/12/23 10:25 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**36.6**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:14	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:14	7440-41-7	
Boron	**105**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:14	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:14	7440-43-9	
Calcium	**8320**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:14	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:14	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:14	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/27/23 00:25	7440-36-0	
Arsenic	**0.090J**	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:25	7440-38-2	
Cobalt	**0.11J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:25	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:25	7439-92-1	
Lithium	**11.3**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 21:00	7439-93-2	
Molybdenum	**0.55J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:25	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 13:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**150**	mg/L	25.0	25.0	1		04/16/23 14:57		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		04/15/23 03:13	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		04/15/23 03:13	16984-48-8	
Sulfate	**5.5**	mg/L	1.0	0.50	1		04/15/23 03:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Sample: 041223FDUAP1 **Lab ID: 92662118007** Collected: 04/12/23 12:20 Received: 04/12/23 15:01 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Ormond Beach								
Barium	**52.4**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:17	7440-39-3	
Beryllium	**0.17J**	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:17	7440-41-7	
Boron	**493**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:17	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:17	7440-43-9	
Calcium	**84300**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:17	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:17	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:17	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	04/26/23 14:34	04/27/23 00:29	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:29	7440-38-2	
Cobalt	**39.8**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:29	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:29	7439-92-1	
Lithium	**22.1**	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 21:04	7439-93-2	
Molybdenum	**0.16J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:29	7439-98-7	
Thallium	**0.20J**	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	04/26/23 14:03	04/27/23 13:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**594**	mg/L	25.0	25.0	1		04/16/23 14:58		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**81.3**	mg/L	1.0	0.60	1		04/15/23 03:27	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		04/15/23 03:27	16984-48-8	
Sulfate	**231**	mg/L	4.0	2.0	4		04/15/23 17:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 770519
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

METHOD BLANK: 3999845 Matrix: Water
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/27/23 12:19	

LABORATORY CONTROL SAMPLE: 3999846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3999847 3999848

Parameter	Units	92662118002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.9	105	115	75-125	9	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 770883
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

METHOD BLANK: 4001980 Matrix: Water
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/29/23 18:12	

LABORATORY CONTROL SAMPLE: 4001981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4001982 4001983

Parameter	Units	92662485001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.1	2.1	82	83	75-125	2	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 770884
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661765001, 92661765002, 92662061001, 92662559001, 92662559002

METHOD BLANK: 4001988 Matrix: Water
Associated Lab Samples: 92661765001, 92661765002, 92662061001, 92662559001, 92662559002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/29/23 17:38	

LABORATORY CONTROL SAMPLE: 4001989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4001990 4001991

Parameter	Units	92661765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	97	98	75-125	1	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 910328
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92661765001, 92661765002, 92662061001

METHOD BLANK: 5004182 Matrix: Water
Associated Lab Samples: 92661765001, 92661765002, 92662061001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/20/23 04:37	
Beryllium	ug/L	ND	4.0	0.17	04/20/23 04:37	
Boron	ug/L	ND	50.0	12.4	04/20/23 04:37	
Cadmium	ug/L	ND	1.0	0.33	04/20/23 04:37	
Calcium	ug/L	ND	500	190	04/20/23 04:37	
Chromium	ug/L	ND	5.0	1.7	04/20/23 04:37	
Selenium	ug/L	ND	15.0	3.9	04/20/23 04:37	

LABORATORY CONTROL SAMPLE: 5004183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	249	100	80-120	
Beryllium	ug/L	25	24.8	99	80-120	
Boron	ug/L	1250	1230	99	80-120	
Cadmium	ug/L	25	26.1	104	80-120	
Calcium	ug/L	12500	13600	108	80-120	
Chromium	ug/L	250	257	103	80-120	
Selenium	ug/L	250	263	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5004184 5004185

Parameter	Units	35793202004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	2.0J	250	250	254	253	101	100	75-125	0	20	
Beryllium	ug/L	0.17U	25	25	25.2	24.9	101	100	75-125	1	20	
Boron	ug/L	12.6J	1250	1250	1270	1260	101	100	75-125	1	20	
Cadmium	ug/L	0.33U	25	25	26.2	26.0	104	104	75-125	1	20	
Calcium	ug/L	4600	12500	12500	17700	17700	105	105	75-125	0	20	
Chromium	ug/L	1.7U	250	250	261	257	104	103	75-125	1	20	
Selenium	ug/L	3.9U	250	250	205	206	82	82	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 910373
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662118004, 92662118005, 92662118006, 92662118007

METHOD BLANK: 5004343 Matrix: Water
Associated Lab Samples: 92662118004, 92662118005, 92662118006, 92662118007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/19/23 11:44	
Beryllium	ug/L	ND	4.0	0.17	04/19/23 11:44	
Boron	ug/L	ND	50.0	12.4	04/19/23 11:44	
Cadmium	ug/L	ND	1.0	0.33	04/19/23 11:44	
Calcium	ug/L	ND	500	190	04/19/23 11:44	
Chromium	ug/L	ND	5.0	1.7	04/19/23 11:44	
Selenium	ug/L	ND	15.0	3.9	04/19/23 11:44	

LABORATORY CONTROL SAMPLE: 5004344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	265	106	80-120	
Beryllium	ug/L	25	26.2	105	80-120	
Boron	ug/L	1250	1300	104	80-120	
Cadmium	ug/L	25	26.9	108	80-120	
Calcium	ug/L	12500	13300	107	80-120	
Chromium	ug/L	250	260	104	80-120	
Selenium	ug/L	250	275	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5004345 5004346

Parameter	Units	92661913001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	27.4	250	250	294	297	107	108	75-125	1	20	
Beryllium	ug/L	ND	25	25	26.5	26.7	106	107	75-125	1	20	
Boron	ug/L	ND	1250	1250	1330	1340	105	106	75-125	1	20	
Cadmium	ug/L	ND	25	25	26.8	27.2	107	109	75-125	1	20	
Calcium	ug/L	38200	12500	12500	50800	51100	101	103	75-125	0	20	
Chromium	ug/L	ND	250	250	263	265	105	106	75-125	1	20	
Selenium	ug/L	ND	250	250	275	277	110	111	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 910394
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662118001, 92662118003

METHOD BLANK: 5004501 Matrix: Water
Associated Lab Samples: 92662118001, 92662118003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/19/23 11:06	
Beryllium	ug/L	ND	4.0	0.17	04/19/23 11:06	
Boron	ug/L	ND	50.0	12.4	04/19/23 11:06	
Cadmium	ug/L	ND	1.0	0.33	04/19/23 11:06	
Calcium	ug/L	ND	500	190	04/19/23 11:06	
Chromium	ug/L	ND	5.0	1.7	04/19/23 11:06	
Selenium	ug/L	ND	15.0	3.9	04/19/23 11:06	

LABORATORY CONTROL SAMPLE: 5004502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	260	104	80-120	
Beryllium	ug/L	25	25.1	100	80-120	
Boron	ug/L	1250	1260	101	80-120	
Cadmium	ug/L	25	25.1	100	80-120	
Calcium	ug/L	12500	12900	103	80-120	
Chromium	ug/L	250	257	103	80-120	
Selenium	ug/L	250	253	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5004503 5004504

Parameter	Units	35793185013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	3.2J	250	250	259	261	102	103	75-125	1	20	
Beryllium	ug/L	0.34U	25	25	20.8	21.5	83	86	75-125	4	20	
Boron	ug/L	86.5	1250	1250	1330	1340	100	100	75-125	1	20	
Cadmium	ug/L	0.33U	25	25	23.8	23.7	95	95	75-125	0	20	
Calcium	ug/L	570000	12500	12500	557000	565000	-105	-38	75-125	1	20	E,M1
Chromium	ug/L	1.7U	250	250	250	251	100	100	75-125	0	20	
Selenium	ug/L	3.9U	250	250	238	238	95	95	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 910436
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662118002

METHOD BLANK: 5004718 Matrix: Water
Associated Lab Samples: 92662118002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/19/23 14:14	
Beryllium	ug/L	ND	4.0	0.17	04/19/23 14:14	
Boron	ug/L	ND	50.0	12.4	04/19/23 14:14	
Cadmium	ug/L	ND	1.0	0.33	04/19/23 14:14	
Calcium	ug/L	ND	500	190	04/19/23 14:14	
Chromium	ug/L	ND	5.0	1.7	04/19/23 14:14	
Selenium	ug/L	ND	15.0	3.9	04/19/23 14:14	

LABORATORY CONTROL SAMPLE: 5004719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	258	103	80-120	
Beryllium	ug/L	25	25.5	102	80-120	
Boron	ug/L	1250	1260	101	80-120	
Cadmium	ug/L	25	25.1	100	80-120	
Calcium	ug/L	12500	13200	106	80-120	
Chromium	ug/L	250	256	103	80-120	
Selenium	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5004720 5004721

Parameter	Units	92662118002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	19.0	250	250	268	272	99	101	75-125	1	20	
Beryllium	ug/L	ND	25	25	24.4	24.4	97	98	75-125	0	20	
Boron	ug/L	36.1J	1250	1250	1240	1250	96	97	75-125	1	20	
Cadmium	ug/L	ND	25	25	23.7	23.8	95	95	75-125	0	20	
Calcium	ug/L	7120	12500	12500	18900	19600	95	100	75-125	4	20	
Chromium	ug/L	ND	250	250	245	249	98	99	75-125	2	20	
Selenium	ug/L	ND	250	250	238	240	95	96	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 911168
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

METHOD BLANK: 5009597 Matrix: Water
Associated Lab Samples: 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/21/23 12:08	
Beryllium	ug/L	ND	4.0	0.17	04/21/23 12:08	
Boron	ug/L	ND	50.0	12.4	04/21/23 12:08	
Cadmium	ug/L	ND	1.0	0.33	04/21/23 12:08	
Calcium	ug/L	ND	500	190	04/21/23 12:08	
Chromium	ug/L	ND	5.0	1.7	04/21/23 12:08	
Selenium	ug/L	ND	15.0	3.9	04/21/23 12:08	

LABORATORY CONTROL SAMPLE: 5009598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	243	97	80-120	
Beryllium	ug/L	25	24.4	98	80-120	
Boron	ug/L	1250	1220	98	80-120	
Cadmium	ug/L	25	24.9	99	80-120	
Calcium	ug/L	12500	12800	102	80-120	
Chromium	ug/L	250	248	99	80-120	
Selenium	ug/L	250	257	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5009599 5009600

Parameter	Units	35794226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	26.4	250	250	270	275	97	99	75-125	2	20	
Beryllium	ug/L	0.17U	25	25	23.2	23.7	92	94	75-125	2	20	
Boron	ug/L	55.7	1250	1250	1290	1310	99	101	75-125	2	20	
Cadmium	ug/L	0.51J	25	25	24.8	25.4	97	99	75-125	2	20	
Calcium	ug/L	97000	12500	12500	111000	110000	110	103	75-125	1	20	
Chromium	ug/L	1.7U	250	250	248	253	99	101	75-125	2	20	
Selenium	ug/L	3.9U	250	250	244	254	97	102	75-125	4	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 911176
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662559001, 92662559002

METHOD BLANK: 5009642 Matrix: Water
Associated Lab Samples: 92662559001, 92662559002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/23/23 23:36	
Beryllium	ug/L	ND	4.0	0.17	04/23/23 23:36	
Boron	ug/L	ND	50.0	12.4	04/23/23 23:36	
Cadmium	ug/L	ND	1.0	0.33	04/23/23 23:36	
Calcium	ug/L	ND	500	190	04/23/23 23:36	
Chromium	ug/L	ND	5.0	1.7	04/23/23 23:36	
Selenium	ug/L	ND	15.0	3.9	04/23/23 23:36	

LABORATORY CONTROL SAMPLE: 5009643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	250	100	80-120	
Beryllium	ug/L	25	25.7	103	80-120	
Boron	ug/L	1250	1290	103	80-120	
Cadmium	ug/L	25	26.1	104	80-120	
Calcium	ug/L	12500	13200	106	80-120	
Chromium	ug/L	250	261	104	80-120	
Selenium	ug/L	250	266	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5009644 5009645

Parameter	Units	35793924001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	38.4	250	250	287	290	99	101	75-125	1	20	
Beryllium	ug/L	0.17U	25	25	25.7	26.1	103	104	75-125	2	20	
Boron	ug/L	28.2J	1250	1250	1320	1340	104	105	75-125	1	20	
Cadmium	ug/L	0.33U	25	25	25.6	26.1	103	104	75-125	2	20	
Calcium	ug/L	33700	12500	12500	46100	46400	99	101	75-125	1	20	
Chromium	ug/L	1.7U	250	250	260	264	104	105	75-125	2	20	
Selenium	ug/L	3.9U	250	250	258	263	102	105	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 911927
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662485001

METHOD BLANK: 5013530 Matrix: Water
Associated Lab Samples: 92662485001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/25/23 16:42	
Beryllium	ug/L	ND	4.0	0.17	04/25/23 16:42	
Boron	ug/L	ND	50.0	12.4	04/25/23 16:42	
Cadmium	ug/L	ND	1.0	0.33	04/25/23 16:42	
Calcium	ug/L	ND	500	190	04/25/23 16:42	
Chromium	ug/L	ND	5.0	1.7	04/25/23 16:42	
Selenium	ug/L	ND	15.0	3.9	04/25/23 16:42	

LABORATORY CONTROL SAMPLE: 5013531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	246	98	80-120	
Beryllium	ug/L	25	24.0	96	80-120	
Boron	ug/L	1250	1190	95	80-120	
Cadmium	ug/L	25	25.5	102	80-120	
Calcium	ug/L	12500	12600	101	80-120	
Chromium	ug/L	250	244	97	80-120	
Selenium	ug/L	250	251	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5013532 5013533

Parameter	Units	92662485001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	158	250	250	404	412	98	102	75-125	2	20	
Beryllium	ug/L	ND	25	25	24.0	24.3	96	97	75-125	1	20	
Boron	ug/L	3020	1250	1250	4270	4340	100	105	75-125	2	20	
Cadmium	ug/L	ND	25	25	24.1	24.5	97	98	75-125	2	20	
Calcium	ug/L	173000	12500	12500	185000	188000	97	121	75-125	2	20	
Chromium	ug/L	ND	250	250	238	242	95	97	75-125	2	20	
Selenium	ug/L	ND	250	250	246	249	98	100	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 769799
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661765001, 92661765002, 92662061001

METHOD BLANK: 3996539 Matrix: Water
Associated Lab Samples: 92661765001, 92661765002, 92662061001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	04/24/23 20:50	
Arsenic	ug/L	ND	1.0	0.087	04/24/23 20:50	
Cobalt	ug/L	ND	1.0	0.050	04/24/23 20:50	
Lead	ug/L	ND	1.0	0.077	04/24/23 20:50	
Lithium	ug/L	ND	2.5	0.50	04/24/23 20:50	
Molybdenum	ug/L	ND	1.0	0.13	04/24/23 20:50	
Thallium	ug/L	ND	0.20	0.050	04/24/23 20:50	

LABORATORY CONTROL SAMPLE: 3996540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.9	100	80-120	
Arsenic	ug/L	50	49.6	99	80-120	
Cobalt	ug/L	50	51.7	103	80-120	
Lead	ug/L	50	50.5	101	80-120	
Lithium	ug/L	50	52.2	104	80-120	
Molybdenum	ug/L	50	50.2	100	80-120	
Thallium	ug/L	25	25.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3996541 3996542

Parameter	Units	92661765001 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	49.7	50.2	99	100	75-125	1	20	
Arsenic	ug/L	ND	50	50	49.1	48.8	98	97	75-125	1	20	
Cobalt	ug/L	0.10J	50	50	51.5	51.7	103	103	75-125	0	20	
Lead	ug/L	ND	50	50	50.2	50.3	100	100	75-125	0	20	
Lithium	ug/L	1.1J	50	50	52.3	53.1	102	104	75-125	1	20	
Molybdenum	ug/L	ND	50	50	50.1	50.7	100	101	75-125	1	20	
Thallium	ug/L	ND	25	25	25.3	25.4	101	102	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 769800
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

METHOD BLANK: 3996543 Matrix: Water
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	04/24/23 23:06	
Arsenic	ug/L	ND	1.0	0.087	04/24/23 23:06	
Cobalt	ug/L	ND	1.0	0.050	04/24/23 23:06	
Lead	ug/L	ND	1.0	0.077	04/24/23 23:06	
Lithium	ug/L	ND	2.5	0.50	04/24/23 23:06	
Molybdenum	ug/L	ND	1.0	0.13	04/24/23 23:06	
Thallium	ug/L	ND	0.20	0.050	04/24/23 23:06	

LABORATORY CONTROL SAMPLE: 3996544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.6	99	80-120	
Arsenic	ug/L	50	47.7	95	80-120	
Cobalt	ug/L	50	53.5	107	80-120	
Lead	ug/L	50	50.3	101	80-120	
Lithium	ug/L	50	51.5	103	80-120	
Molybdenum	ug/L	50	51.1	102	80-120	
Thallium	ug/L	25	25.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3996545 3996546

Parameter	Units	92662485001 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	51.0	50.7	102	101	75-125	1	20	
Arsenic	ug/L	0.22J	50	50	48.0	48.5	96	96	75-125	1	20	
Cobalt	ug/L	4.3	50	50	55.7	56.4	103	104	75-125	1	20	
Lead	ug/L	ND	50	50	50.4	50.2	101	100	75-125	0	20	
Lithium	ug/L	ND	50	50	48.5	48.8	96	97	75-125	1	20	
Molybdenum	ug/L	0.41J	50	50	53.6	53.5	106	106	75-125	0	20	
Thallium	ug/L	ND	25	25	25.6	25.6	102	102	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 769838
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662559001, 92662559002

METHOD BLANK: 3996643 Matrix: Water
Associated Lab Samples: 92662559001, 92662559002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	04/26/23 00:39	
Arsenic	ug/L	ND	1.0	0.087	04/26/23 00:39	
Cobalt	ug/L	ND	1.0	0.050	04/26/23 00:39	
Lead	ug/L	ND	1.0	0.077	04/26/23 00:39	
Lithium	ug/L	ND	2.5	0.50	04/26/23 00:39	
Molybdenum	ug/L	ND	1.0	0.13	04/26/23 00:39	
Thallium	ug/L	ND	0.20	0.050	04/26/23 00:39	

LABORATORY CONTROL SAMPLE: 3996644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.8	102	80-120	
Arsenic	ug/L	50	48.2	96	80-120	
Cobalt	ug/L	50	55.9	112	80-120	
Lead	ug/L	50	51.6	103	80-120	
Lithium	ug/L	50	53.4	107	80-120	
Molybdenum	ug/L	50	52.7	105	80-120	
Thallium	ug/L	25	25.3	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3996645 3996646

Parameter	Units	92662490001 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	50.9	51.3	102	103	75-125	1	20	
Arsenic	ug/L	13.8	50	50	63.4	64.9	99	102	75-125	2	20	
Cobalt	ug/L	13.0	50	50	66.9	66.0	108	106	75-125	1	20	
Lead	ug/L	ND	50	50	52.4	52.8	105	105	75-125	1	20	
Lithium	ug/L	0.81J	50	50	52.7	53.0	104	104	75-125	1	20	
Molybdenum	ug/L	4.4	50	50	57.1	57.9	105	107	75-125	1	20	
Thallium	ug/L	ND	25	25	25.8	25.9	103	103	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 770549
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

METHOD BLANK: 4000012 Matrix: Water
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	04/26/23 22:50	
Arsenic	ug/L	ND	1.0	0.087	04/26/23 22:50	
Cobalt	ug/L	ND	1.0	0.050	04/26/23 22:50	
Lead	ug/L	ND	1.0	0.077	04/26/23 22:50	
Lithium	ug/L	ND	2.5	0.50	04/26/23 22:50	
Molybdenum	ug/L	ND	1.0	0.13	04/26/23 22:50	
Thallium	ug/L	ND	0.20	0.050	04/26/23 22:50	

LABORATORY CONTROL SAMPLE: 4000013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.8	104	80-120	
Arsenic	ug/L	50	50.0	100	80-120	
Cobalt	ug/L	50	53.0	106	80-120	
Lead	ug/L	50	51.8	104	80-120	
Lithium	ug/L	50	56.3	113	80-120	
Molybdenum	ug/L	50	51.1	102	80-120	
Thallium	ug/L	25	25.8	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4000014 4000015

Parameter	Units	92662118002 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	52.1	51.5	104	103	75-125	1	20	
Arsenic	ug/L	0.14J	50	50	51.3	50.6	102	101	75-125	1	20	
Cobalt	ug/L	0.47J	50	50	52.3	51.4	104	102	75-125	2	20	
Lead	ug/L	ND	50	50	51.9	51.2	104	102	75-125	1	20	
Lithium	ug/L	10.9	50	50	61.1	61.3	100	101	75-125	0	20	
Molybdenum	ug/L	0.14J	50	50	52.3	50.7	104	101	75-125	3	20	
Thallium	ug/L	ND	25	25	26.0	25.7	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768251 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662061001, 92662118001, 92662118002, 92662118003, 92662118004

METHOD BLANK: 3988907 Matrix: Water
Associated Lab Samples: 92662061001, 92662118001, 92662118002, 92662118003, 92662118004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/14/23 18:44	

LABORATORY CONTROL SAMPLE: 3988908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	90-110	

SAMPLE DUPLICATE: 3988909

Parameter	Units	92661913001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	159	3	25	

SAMPLE DUPLICATE: 3988960

Parameter	Units	92662118002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	109	110	1	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768296
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662118005, 92662118006, 92662118007

METHOD BLANK: 3989059 Matrix: Water
Associated Lab Samples: 92662118005, 92662118006, 92662118007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/16/23 14:56	

LABORATORY CONTROL SAMPLE: 3989060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3989061

Parameter	Units	92662122001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	379	6	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768627
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016, 92662559001, 92662559002

METHOD BLANK: 3990557 Matrix: Water
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016, 92662559001, 92662559002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/18/23 14:11	

LABORATORY CONTROL SAMPLE: 3990558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 3990559

Parameter	Units	92662485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1070	1040	2	25	

SAMPLE DUPLICATE: 3990560

Parameter	Units	92662485011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	453	454	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 767989
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661765001, 92661765002

METHOD BLANK: 3987644 Matrix: Water
Associated Lab Samples: 92661765001, 92661765002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/14/23 00:33	
Fluoride	mg/L	ND	0.10	0.050	04/14/23 00:33	
Sulfate	mg/L	ND	1.0	0.50	04/14/23 00:33	

LABORATORY CONTROL SAMPLE: 3987645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3987646 3987647

Parameter	Units	92661924001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.1	50	50	58.1	59.6	102	105	90-110	3	10	
Fluoride	mg/L	0.17	2.5	2.5	3.0	3.0	112	114	90-110	2	10	M1
Sulfate	mg/L	1.4	50	50	51.9	53.5	101	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3987648 3987649

Parameter	Units	92661755004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	98.7	50	50	146	148	95	98	90-110	1	10	
Fluoride	mg/L	0.14	2.5	2.5	3.1	3.1	117	119	90-110	2	10	M1
Sulfate	mg/L	ND	50	50	50.8	52.2	101	104	90-110	3	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768103
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

METHOD BLANK: 3987876 Matrix: Water
Associated Lab Samples: 92662118001, 92662118002, 92662118003, 92662118004, 92662118005, 92662118006, 92662118007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/14/23 17:50	
Fluoride	mg/L	ND	0.10	0.050	04/14/23 17:50	
Sulfate	mg/L	ND	1.0	0.50	04/14/23 17:50	

LABORATORY CONTROL SAMPLE: 3987877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	45.6	91	90-110	
Fluoride	mg/L	2.5	2.3	94	90-110	
Sulfate	mg/L	50	45.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3987880 3987881

Parameter	Units	92662122001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.1	50	50	59.8	59.8	93	93	90-110	0	10	
Fluoride	mg/L	0.17	2.5	2.5	2.5	2.5	94	95	90-110	1	10	
Sulfate	mg/L	1.1	50	50	47.4	47.6	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3988011 3988012

Parameter	Units	92662118002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	49.0	49.0	95	95	90-110	0	10	
Fluoride	mg/L	0.097J	2.5	2.5	2.4	2.5	93	95	90-110	1	10	
Sulfate	mg/L	15.1	50	50	61.8	61.8	93	93	90-110	0	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768287
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662061001

METHOD BLANK: 3989035 Matrix: Water
Associated Lab Samples: 92662061001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/15/23 13:27	
Fluoride	mg/L	ND	0.10	0.050	04/15/23 13:27	
Sulfate	mg/L	ND	1.0	0.50	04/15/23 13:27	

LABORATORY CONTROL SAMPLE: 3989036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3989037 3989038

Parameter	Units	92662002005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.5	50	50	52.7	53.7	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	106	108	90-110	2	10	
Sulfate	mg/L	6.3	50	50	56.8	57.9	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3989039 3989040

Parameter	Units	92662002014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	51.9	52.5	101	102	90-110	1	10	
Fluoride	mg/L	0.20	2.5	2.5	2.8	2.8	102	104	90-110	1	10	
Sulfate	mg/L	3.0	50	50	53.7	54.2	101	102	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

QC Batch: 768601
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016, 92662559001, 92662559002

METHOD BLANK: 3990417 Matrix: Water
Associated Lab Samples: 92662485001, 92662485002, 92662485003, 92662485004, 92662485005, 92662485006, 92662485007, 92662485008, 92662485009, 92662485010, 92662485011, 92662485012, 92662485013, 92662485014, 92662485015, 92662485016, 92662559001, 92662559002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/18/23 15:00	
Fluoride	mg/L	ND	0.10	0.050	04/18/23 15:00	
Sulfate	mg/L	ND	1.0	0.50	04/18/23 15:00	

LABORATORY CONTROL SAMPLE: 3990418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3990419 3990420

Parameter	Units	92662485001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	182	50	50	225	225	86	86	90-110	0	10	M1
Fluoride	mg/L	0.19	2.5	2.5	2.9	3.0	109	112	90-110	2	10	M1
Sulfate	mg/L	182	50	50	229	229	95	94	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3990421 3990422

Parameter	Units	92662485011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.8	50	50	58.7	59.3	100	101	90-110	1	10	
Fluoride	mg/L	0.17	2.5	2.5	2.9	3.0	111	111	90-110	0	10	M1
Sulfate	mg/L	50.2	50	50	99.4	100	99	100	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92661765001	**041123NMWB31**	EPA 3010	910328	EPA 6010	910363
92661765002	**041123NMWB32**	EPA 3010	910328	EPA 6010	910363
92662061001	**041223NMW9R**	EPA 3010	910328	EPA 6010	910363
92662118001	**041223NMW13**	EPA 3010	910394	EPA 6010	910405
92662118002	**041223NMW14**	EPA 3010	910436	EPA 6010	910543
92662118003	**041223NMW15**	EPA 3010	910394	EPA 6010	910405
92662118004	**041223NMW16**	EPA 3010	910373	EPA 6010	910398
92662118005	**041223NMW30U**	EPA 3010	910373	EPA 6010	910398
92662118006	**041223NMW35D**	EPA 3010	910373	EPA 6010	910398
92662118007	**041223FDUAP1**	EPA 3010	910373	EPA 6010	910398
92662485001	**041323NWM1**	EPA 3010	911927	EPA 6010	911950
92662485002	**041323NMW1D**	EPA 3010	911168	EPA 6010	911232
92662485003	**041323NMW2**	EPA 3010	911168	EPA 6010	911232
92662485004	**041323NMW3**	EPA 3010	911168	EPA 6010	911232
92662485005	**041323NMW3D**	EPA 3010	911168	EPA 6010	911232
92662485006	**041323NMW4**	EPA 3010	911168	EPA 6010	911232
92662485007	**041323NMW5**	EPA 3010	911168	EPA 6010	911232
92662485008	**041323NMW6**	EPA 3010	911168	EPA 6010	911232
92662485009	**041323NMW6D**	EPA 3010	911168	EPA 6010	911232
92662485010	**041323NMW10**	EPA 3010	911168	EPA 6010	911232
92662485011	**041323NMW11**	EPA 3010	911168	EPA 6010	911232
92662485012	**041323NMW12**	EPA 3010	911168	EPA 6010	911232
92662485013	**041323NMW16D**	EPA 3010	911168	EPA 6010	911232
92662485014	**041323NMW17S**	EPA 3010	911168	EPA 6010	911232
92662485015	**041323FBUAP**	EPA 3010	911168	EPA 6010	911232
92662485016	**041323FDUAP2**	EPA 3010	911168	EPA 6010	911232
92662559001	**041423NMW7**	EPA 3010	911176	EPA 6010	911255
92662559002	**041423NMW8R**	EPA 3010	911176	EPA 6010	911255
92661765001	**041123NMWB31**	EPA 3010A	769799	EPA 6020B	769813
92661765002	**041123NMWB32**	EPA 3010A	769799	EPA 6020B	769813
92662061001	**041223NMW9R**	EPA 3010A	769799	EPA 6020B	769813
92662118001	**041223NMW13**	EPA 3010A	770549	EPA 6020B	770663
92662118002	**041223NMW14**	EPA 3010A	770549	EPA 6020B	770663
92662118003	**041223NMW15**	EPA 3010A	770549	EPA 6020B	770663
92662118004	**041223NMW16**	EPA 3010A	770549	EPA 6020B	770663
92662118005	**041223NMW30U**	EPA 3010A	770549	EPA 6020B	770663
92662118006	**041223NMW35D**	EPA 3010A	770549	EPA 6020B	770663
92662118007	**041223FDUAP1**	EPA 3010A	770549	EPA 6020B	770663
92662485001	**041323NWM1**	EPA 3010A	769800	EPA 6020B	769812
92662485002	**041323NMW1D**	EPA 3010A	769800	EPA 6020B	769812
92662485003	**041323NMW2**	EPA 3010A	769800	EPA 6020B	769812
92662485004	**041323NMW3**	EPA 3010A	769800	EPA 6020B	769812
92662485005	**041323NMW3D**	EPA 3010A	769800	EPA 6020B	769812
92662485006	**041323NMW4**	EPA 3010A	769800	EPA 6020B	769812

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662485007	**041323NMW5**	EPA 3010A	769800	EPA 6020B	769812
92662485008	**041323NMW6**	EPA 3010A	769800	EPA 6020B	769812
92662485009	**041323NMW6D**	EPA 3010A	769800	EPA 6020B	769812
92662485010	**041323NMW10**	EPA 3010A	769800	EPA 6020B	769812
92662485011	**041323NMW11**	EPA 3010A	769800	EPA 6020B	769812
92662485012	**041323NMW12**	EPA 3010A	769800	EPA 6020B	769812
92662485013	**041323NMW16D**	EPA 3010A	769800	EPA 6020B	769812
92662485014	**041323NMW17S**	EPA 3010A	769800	EPA 6020B	769812
92662485015	**041323FBUAP**	EPA 3010A	769800	EPA 6020B	769812
92662485016	**041323FDUAP2**	EPA 3010A	769800	EPA 6020B	769812
92662559001	**041423NMW7**	EPA 3010A	769838	EPA 6020B	769910
92662559002	**041423NMW8R**	EPA 3010A	769838	EPA 6020B	769910
92661765001	**041123NMWB31**	EPA 7470A	770884	EPA 7470A	771042
92661765002	**041123NMWB32**	EPA 7470A	770884	EPA 7470A	771042
92662061001	**041223NMW9R**	EPA 7470A	770884	EPA 7470A	771042
92662118001	**041223NMW13**	EPA 7470A	770519	EPA 7470A	770732
92662118002	**041223NMW14**	EPA 7470A	770519	EPA 7470A	770732
92662118003	**041223NMW15**	EPA 7470A	770519	EPA 7470A	770732
92662118004	**041223NMW16**	EPA 7470A	770519	EPA 7470A	770732
92662118005	**041223NMW30U**	EPA 7470A	770519	EPA 7470A	770732
92662118006	**041223NMW35D**	EPA 7470A	770519	EPA 7470A	770732
92662118007	**041223FDUAP1**	EPA 7470A	770519	EPA 7470A	770732
92662485001	**041323NWM1**	EPA 7470A	770883	EPA 7470A	771043
92662485002	**041323NMW1D**	EPA 7470A	770883	EPA 7470A	771043
92662485003	**041323NMW2**	EPA 7470A	770883	EPA 7470A	771043
92662485004	**041323NMW3**	EPA 7470A	770883	EPA 7470A	771043
92662485005	**041323NMW3D**	EPA 7470A	770883	EPA 7470A	771043
92662485006	**041323NMW4**	EPA 7470A	770883	EPA 7470A	771043
92662485007	**041323NMW5**	EPA 7470A	770883	EPA 7470A	771043
92662485008	**041323NMW6**	EPA 7470A	770883	EPA 7470A	771043
92662485009	**041323NMW6D**	EPA 7470A	770883	EPA 7470A	771043
92662485010	**041323NMW10**	EPA 7470A	770883	EPA 7470A	771043
92662485011	**041323NMW11**	EPA 7470A	770883	EPA 7470A	771043
92662485012	**041323NMW12**	EPA 7470A	770883	EPA 7470A	771043
92662485013	**041323NMW16D**	EPA 7470A	770883	EPA 7470A	771043
92662485014	**041323NMW17S**	EPA 7470A	770883	EPA 7470A	771043
92662485015	**041323FBUAP**	EPA 7470A	770883	EPA 7470A	771043
92662485016	**041323FDUAP2**	EPA 7470A	770883	EPA 7470A	771043
92662559001	**041423NMW7**	EPA 7470A	770884	EPA 7470A	771042
92662559002	**041423NMW8R**	EPA 7470A	770884	EPA 7470A	771042
92662061001	**041223NMW9R**	SM 2540C-2011	768251		
92662118001	**041223NMW13**	SM 2540C-2011	768251		
92662118002	**041223NMW14**	SM 2540C-2011	768251		
92662118003	**041223NMW15**	SM 2540C-2011	768251		
92662118004	**041223NMW16**	SM 2540C-2011	768251		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662118005	**041223NMW30U**	SM 2540C-2011	768296		
92662118006	**041223NMW35D**	SM 2540C-2011	768296		
92662118007	**041223FDUAP1**	SM 2540C-2011	768296		
92662485001	**041323NWM1**	SM 2540C-2011	768627		
92662485002	**041323NMW1D**	SM 2540C-2011	768627		
92662485003	**041323NMW2**	SM 2540C-2011	768627		
92662485004	**041323NMW3**	SM 2540C-2011	768627		
92662485005	**041323NMW3D**	SM 2540C-2011	768627		
92662485006	**041323NMW4**	SM 2540C-2011	768627		
92662485007	**041323NMW5**	SM 2540C-2011	768627		
92662485008	**041323NMW6**	SM 2540C-2011	768627		
92662485009	**041323NMW6D**	SM 2540C-2011	768627		
92662485010	**041323NMW10**	SM 2540C-2011	768627		
92662485011	**041323NMW11**	SM 2540C-2011	768627		
92662485012	**041323NMW12**	SM 2540C-2011	768627		
92662485013	**041323NMW16D**	SM 2540C-2011	768627		
92662485014	**041323NMW17S**	SM 2540C-2011	768627		
92662485015	**041323FBUAP**	SM 2540C-2011	768627		
92662485016	**041323FDUAP2**	SM 2540C-2011	768627		
92662559001	**041423NMW7**	SM 2540C-2011	768627		
92662559002	**041423NMW8R**	SM 2540C-2011	768627		
92661765001	**041123NMWB31**	EPA 9056A	767989		
92661765002	**041123NMWB32**	EPA 9056A	767989		
92662061001	**041223NMW9R**	EPA 9056A	768287		
92662118001	**041223NMW13**	EPA 9056A	768103		
92662118002	**041223NMW14**	EPA 9056A	768103		
92662118003	**041223NMW15**	EPA 9056A	768103		
92662118004	**041223NMW16**	EPA 9056A	768103		
92662118005	**041223NMW30U**	EPA 9056A	768103		
92662118006	**041223NMW35D**	EPA 9056A	768103		
92662118007	**041223FDUAP1**	EPA 9056A	768103		
92662485001	**041323NWM1**	EPA 9056A	768601		
92662485002	**041323NMW1D**	EPA 9056A	768601		
92662485003	**041323NMW2**	EPA 9056A	768601		
92662485004	**041323NMW3**	EPA 9056A	768601		
92662485005	**041323NMW3D**	EPA 9056A	768601		
92662485006	**041323NMW4**	EPA 9056A	768601		
92662485007	**041323NMW5**	EPA 9056A	768601		
92662485008	**041323NMW6**	EPA 9056A	768601		
92662485009	**041323NMW6D**	EPA 9056A	768601		
92662485010	**041323NMW10**	EPA 9056A	768601		
92662485011	**041323NMW11**	EPA 9056A	768601		
92662485012	**041323NMW12**	EPA 9056A	768601		
92662485013	**041323NMW16D**	EPA 9056A	768601		
92662485014	**041323NMW17S**	EPA 9056A	768601		
92662485015	**041323FBUAP**	EPA 9056A	768601		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-UAP-B
Pace Project No.: 92662485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662485016	**041323FDUAP2**	EPA 9056A	768601		
92662559001	**041423NMW7**	EPA 9056A	768601		
92662559002	**041423NMW8R**	EPA 9056A	768601		

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

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy_VA

Project #: WO# : 92662061

92662061

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: AP 4-13-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 17070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W T	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92662061

PM: AMB Due Date: 04/27/23

CLIENT: 92-DomEnergy

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2 ✓																			3				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-1SA2023-CCR-VAP-B-3-2

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly.Hicks	Attention:	
Address:	~~2108 W. Laburnum Ave~~ 120 Tredegar St.	Copy To:	Arielle.Green@wsp.com Dominionenergy.com	Company Name:	
	~~Suite 200~~, Richmond, VA ~~23227~~ 23219	Purchase Order #:		Address:	
Email:	~~arielle.green@golder.com~~ Kelly.A.Hicks@	Project Name:	Chesterfield Power Station (B)	Pace Quote:	
Phone:	~~(804)358-7000~~ Fax:	Project #:	31406066.007	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:	804-273-4903			Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	26620 61
1	04 ~~23NWM~~	WT																X	X	X	X	X		
2	04 ~~23NWMD~~	WT																X	X	X	X	X		
3	04 ~~23NMW2~~	WT																X	X	X	X	X		
4	04 ~~23NMW3~~	WT																X	X	X	X	X		
5	04 ~~23NMWD~~	WT																X	X	X	X	X		
6	04 ~~23NMW4~~	WT																X	X	X	X	X		
7	04 ~~23NMW5~~	WT																X	X	X	X	X		
8	04 ~~23NMW6~~	WT																X	X	X	X	X		
9	04 ~~23NMW6D~~	WT																X	X	X	X	X		
10	04 ~~23NMW7R~~	WT																X	X	X	X	X		
11	04 ~~23NMW8R~~	WT																X	X	X	X	X		
12	04 12 23NMW9R	WT	G	4/12/23	1425	—	—		G	X		X						X	X	X	X	X		pH = 6.13 SU @ 0

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Weidman / WSP	4/12/23	1605		4/12/23	1605
STANDARD TAT		4/12/23	1614	ARC POC CHIN	4/12/23	0929
All Samples preserved on ice						

SAMPLE CONDITIONS			
TEMP in C	3.8		
Received on Ice (Y/N)	Y	N	Y
Custody Sealed Cooler (Y/N)			
Samples Intact (Y/N)			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Weidman

SIGNATURE of SAMPLER: M. Weidman DATE Signed: 04/12/23

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy_VA

Project #:

WO# : 92662118

92662118

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

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: AMC 4-18-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: See below Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): See below

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Cooler Temps 4.3, 0.3, 4.8, 0.2, 0.6.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92662118**

PM: AMB Due Date: 04/27/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2 ✓																			2 ✓				
2		3 3				6 ✓																			6 ✓				
3		1	1			2 ✓																			2 ✓				
4		1	1			2 ✓																			2 ✓				
5		1	1			2 ✓																			2 ✓				
6		1	1			2 ✓																			2 ✓				
7		1	1			2																			2				
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-1SA2023-CCR-UAP-B-3-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 3

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~2108 W. Laburnum Ave.~~ 120 Tredegar St	Copy To:	Arielle.E.Green@WSP.com	Company Name:	
	~~Suite 200~~, Richmond, VA ~~23227~~ 23219		Dom.Energy.com	Address:	
Email:	~~arielle.green@golder.com~~ kelly.a.hicks@	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID – One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	92662118
13	~~04_23NWM1-MS~~ CM	WT																	X	X	X	X	X			
14	~~04_23NWM1-MSD~~ CM	WT																	X	X	X	X	X			
15	~~04_23NMW10~~ CM	WT																	X	X	X	X	X			
16	~~04_23NMW11~~ CM	WT																	X	X	X	X	X			
17	~~04_23NMW12~~ CM	WT																	X	X	X	X	X			ADMS/UAPMSD
18	04[12]23NMW13	WT	G	4/12/23	1005	—	—		6	X		X							X	X	X	X	X	5.94		Taken @ MW-14
19	04[12]23NMW14	WT	G	4/12/23	1110	—	—		18	X		X							X	X	X	X	X	6.34		~~MS/MSD~~
20	~~04_23NMW14-MS~~ CM	WT																	X	X	X	X	X			~~Taken @ MW-14~~
21	~~04_23NMW14-MSD~~ CM	WT																	X	X	X	X	X			pH=6.34SU → MW-14
22	04[12]23NMW15	WT	G	4/12/23	1215	—	—		6	X		X							X	X	X	X	X	6.96		
23	04[12]23NMW16	WT	G	4/12/23	1300	—	—		6	X		X							X	X	X	X	X	6.59		
24	~~04_23NMW16D~~ CM	WT																	X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Knox / WSP	4/12/23	1501		4/12/23	1501
STANDARD TAT		4/12/23	1600	APC Pace CF IV	4-13-23	0925
All Samples Preserved on ice						

SAMPLE CONDITIONS			
12	X	X	X
4.3C	Y	N	Y
4.8C			
0.6			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: C. Meyer

SIGNATURE of SAMPLER: [signature] DATE Signed: 04/12/23

COCID: CPS-ISA2023-CCR-UAP-B-3-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 3 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~3108 W. Leburnum Ave.~~ 120 Tredegar St.	Copy To:	Arielle.Green@AWSP.com	Company Name:	
	~~Suite 200; Richmond, VA 23227~~ VA. 23219		Dominionenergy.com	Address:	Regulatory Agency
Email:	~~arielle_green@golder.com~~ Kelly.a.Hicks@d	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com, State / Location
Requested Due Date:		Project #:		Pace Profile #:	13861- VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	
		MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																Y/N		N	N	N	N	N		92662188
25	~~04_23NMW17S~~ CM	WT																		x	x	x	x	x		
26	04_23NMW30U	WT	G	4/12/23	1235	—	—		6	x		x								x	x	x	x	x	6646.60	005
27	04_23NMW35D	WT	G	4/12/23	1025	—	—		6	x		x								x	x	x	x	x		006
28	~~04_23NMWB31~~ CM	WT																		x	x	x	x	x		
29	~~04_23NMWB32~~ CM	WT																		x	x	x	x	x		
30	~~04_23NFBUAP~~ CM	WT																		x	x	x	x	x		
31	04_23NFDUAP1	WT	G	4/12/23	1220	—	—		6	x		x								x	x	x	x	x		007
32	~~04_23NFDUAP2~~ CM	WT																		x	x	x	x	x		
33		WT																		x	x	x	x	x		
34																										
35																										
36																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV Data Package	M. Knez / WSP	4/12/23	1501		4/12/23	1500	12.2	Y	N	Y
STANDARD TAT		4/12/23	1600	ARDUCE FTW	4-13-23	0925	07.06	Y	N	Y
All Samples preserved on ice							4.3.03			
							4.8			

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	M. Knez / C. Mezzo					
SIGNATURE of SAMPLER:	M. Knez / Golder	DATE Signed: 04/12/23				

Pace ANALYTICAL SERVICES

Receipt

Effective Date:

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☑ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☐ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project #: WO# : 92662485

92662485

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

Carrier Tracking Number: 7718-5764-9136

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Date/Initials Person Examining Contents:** 06/7/23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92707 **Type of Ice:** ☐ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.7,1.3,.5 **Correction Factor:** Add / Subtract (°C) 0

Corrected Cooler Temp (°C): 1.7,1.3,.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling proc has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 11:00 **Temp:** 1.3,1.3
Time: 11:15 **put in cooler**
Time: **Temp:**

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

Receipt

Effective Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

WO# : 92662485

PM: AMB **Due Date: 05/01/23**

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		3	3			6																			0				
2		1	1			2																			2				
3		1	1			2																			2				
4		1	1			2																			2				
5		1	1			2																			2				
6		1	1			2																			2				
7		1	1			2																			2				
8		1	1			2																			2				
9		1	1			2																			2				
10		1	1			2																			2				
11		1	1			2																			2				
12		1	1			2																			2				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

Pace ANALYTICAL SERVICES

Receipt

Effective Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

WO# : 92662485

PM: AMB Due Date: 05/01/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		1	1			2																			2				
3		1	1			2																			2				
4		1	1			2																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

COCID: CPS-ISA2023-CCR-UAP-B-4-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~2108 W. Laburnum Ave~~ 120 Tredegar St.	Copy To:	Arielle.Green@WSP.com	Company Name:	
	~~Suite 200~~, Richmond, VA ~~23227~~ 23219		Dominionenergy.com	Address:	
Email:	~~arielle.green@golder.com~~ Kelly.A.Hicks@	Purchase Order #:		Pace Quote:	
Phone:	~~(804)358-7000~~ Fax:	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:	804-273-4903	Project #:	31406066.007	Pace Profile #:	13861-

Regulatory Agency
State / Location
VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	
1	04~~_23~~NWM1	WT	G	4/13/23	1040	—	—		18	X		X						N	X	X	X	X	X		92662485
2	04~~_23NWMD~~ 04 23NMW1D	WT	G	4/13/23	1235	—	—		6	X		X						N	X	X	X	X	X		UAPMSMW1/UAPMSD MW1 taken @ MW-1
3	04~~_23~~NMW2	WT	G	4/13/23	1250	—	—		6	X		X						N	X	X	X	X	X		002
4	04~~_23~~NMW3	WT	G	4/13/23	1200	—	—		6	X		X						N	X	X	X	X	X		003
5	04~~_23NMWD~~ 041323NMW3D	WT	G	4/13/23	1130	—	—		6	X		X						N	X	X	X	X	X		004
6	04~~_23~~NMW4	WT	G	4/13/23	1035	—	—		6	X		X						N	X	X	X	X	X		005
7	04~~_23NMW5~~ 041323NMW5	WT	G	4/13/23	0940	—	—		6	X		X						N	X	X	X	X	X		006
8	04~~_23~~NMW6	WT	G	4/13/23	1435	—	—		6	X		X						N	X	X	X	X	X		007
9	04~~_23~~NMW6D	WT	G	4/13/23	1355	—	—		6	X		X						N	X	X	X	X	X		008
10	~~04_23NMW7R~~	WT																N	X	X	X	X	X		009
11	~~04_23NMW8R~~	WT																N	X	X	X	X	X		
12	~~04_23NMW9R~~	WT																N	X	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M.Wm — WSP	04/13/23	1642	— PACE	4/13/23	1642
STANDARD TAT	— PACE	4/14/23	1600	MD6Pace HVV	4-18-23	11:30
All Samples Preserved on ice						

SAMPLE CONDITIONS				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				0.5			
				1.7	Y	Y	Y
				1.3			
				1.5			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: C. Megee / M. Kneiz / M. Wm

SIGNATURE of SAMPLER: — / M. Kneiz / — DATE Signed: 04/13/23

COCID: CPS-1SA2023-CCR-UAP-B-4-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 2 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~2106 W. Laburnum Ave.~~ 120 Tredegar St	Copy To:	Ariellel.Green@BNSF.com	Company Name:	
Suite 200, Richmond, VA ~~23227~~	23219		Dominionenergy.com	Address:	
Email:	~~arielle_green@golder.com~~ kelly.a.hicks@	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:	31406066.007	Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, FI, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)								92662485
13	~~04_23NWM1-MS~~	WT																	X	X	X	X	X			
14	~~04_23NWM1-MSD~~	WT																	X	X	X	X	X			
15	04_23NMW10	WT	G	4/13/23	1525	—	—		6	X		X							X	X	X	X	X	6.30	6.13		Q10
16	04_23NMW11	WT	G	4/13/23	1320	—	—		6	X		X							X	X	X	X	X	6.53			Q11
17	04_23NMW12	WT	G	4/13/23	1150	—	—		6	X		X							X	X	X	X	X				Q12
18	~~04_23NMW13~~	WT																	X	X	X	X	X			
19	~~04_23NMW14~~	WT																	X	X	X	X	X			
20	~~04_23NMW14-MS~~	WT																	X	X	X	X	X			
21	~~04_23NMW14-MSD~~	WT																	X	X	X	X	X			
22	~~04_23NMW15~~	WT																	X	X	X	X	X			
23	~~04_23NMW16~~	WT																	X	X	X	X	X			
24	04_23NMW16D	WT	G	4/13/23	0950	—	—		6	X		X							X	X	X	X	X	6.21			Q13

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV Data Package	M Weidman / WSP	4/13/23	1640	PACE	4/13/23	1645	2.5	X	X	X
STANDARD TAT	PACE	4/14/23	1600	M DeGroot HW	4/15/23	11:30	.7	Y	Y	Y
All Samples preserved on ice							1.3			
							1.5			

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	A. Kaiz / M. Weidman		
SIGNATURE of SAMPLER:	A. Kaiz / M. Weidman	DATE Signed:	04/13/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COLID: LPS-ISA2023-CLR-UAP-B-4-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 3 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~2108 W. Laburnum Ave.~~ 120 Tredegar St.	Copy To:	Arielle.Green@AWSP.com	Company Name:	
	~~Suite 200~~, Richmond, ~~VA 23227~~ VA, 23219		Dominionenergy.com	Address:	
Email:	~~arielle.green@golder.com~~ Kelly.a.Hicks@D	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:	3140606G.007	Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field)	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																	Y/N	N	N	N	N	N	N		
25	04[13]23NMW17S	WT	G	4/13/23	1340	—	—		6	X		X							x	x	x	x	x	8.2		92662485
26	~~04_23NMW30D~~	WT																	x	x	x	x	x			014
27	~~04_23NMW35D~~	WT																	x	x	x	x	x			
28	~~04_23NMWB31~~	WT																	x	x	x	x	x			
29	~~04_23NMWB32~~	WT																	x	x	x	x	x			
30	~~04_23NFDUAP~~ 041323FBUAP	WT	G	4/13/23	1020	—	—		6	X		X							x	x	x	x	x			015
31	~~04_23NFDUAP1~~	WT																	x	x	x	x	x			
32	04[13]23NFDUAP2	WT	G	4/13/23	1345	—	—		6	X		X							x	x	x	x	x			016
33		WT																	x	x	x	x	x			
34																										
35																										
36																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV Data Package	M. Megee / WSP	4/13/23	1640	PACE	4/13/23	1640	5.1	X	X	X
STANDARD TAT	PACE	4/14/23	0600	MD Pace HVL	4-15-23	11:30	1.7	Y	Y	Y
All Samples preserved on ice							1.3			
							1.5			

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	C Megee / M. Perez			
SIGNATURE of SAMPLER:	CMegee / M. Perez	DATE Signed:	04/13/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

Receipt
Effective Date:

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project # WO#: 92662485
PM: AMB Due Date: 05/01/23
CLIENT: 92-DomEnergy

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

Carrier Tracking Number: 397036117342

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No **Date/Initials Person Examining Contents:** MG 4-17-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T070 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 3.7 **Correction Factor:** Add / Subtract (°C) 0

Corrected Cooler Temp (°C): 3.7

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling proc has begun

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.	
Time opened: 1420	Temp: 3.7
Time: 1430	put in cooler
Time:	Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Projec

WO# : 92662485

PM: AMB Due Date: 05/01/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	B P I N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		1	1			2																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

COCID: CPS-ISA2023-CCR-UAP-B-5-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 3

Section A — Required Client Information:

Company:	Dominion Energy_VA
Address:	~~2108 W. Laburnum Ave~~ 120 Tredegar St.
~~Suite 200~~, Richmond, VA ~~23227~~	23219
Email:	~~arielle.green@golder.com~~ Kelly.A.Hicks@dominionenergy.com
Phone:	~~(804)358-7000~~ Fax:
Requested Due Date:	804-273-4903

Section B — Required Project Information:

Report To:	~~Arielle Green~~ Kelly Hicks
Copy To:	Arielle.Green@wsp.com
Purchase Order #:	
Project Name:	Chesterfield Power Station (B)
Project #:	31406066.007

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	angela.baioni@pacelabs.com,
Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N	Y	Y	Y	Y	Y	Y		
1	~~04~~ 23NWMT	WT																X	X	X	X	X			92662559
2	~~04~~ 23NWMD	WT																X	X	X	X	X			
3	~~04~~ 23NMW2	WT																X	X	X	X	X			
4	~~04~~ 23NMW3	WT																X	X	X	X	X			
5	~~04~~ 23NMWD	WT																X	X	X	X	X			
6	~~04~~ 23NMW4	WT																X	X	X	X	X			
7	~~04~~ 23NMW5	WT																X	X	X	X	X			
8	~~04~~ 23NMW6	WT																X	X	X	X	X			
9	~~04~~ 23NMW6D	WT																X	X	X	X	X			
10	04 23NMW7R	WT	G	4/14/23	1320	—	—		6	X		X						X	X	X	X	X	6.36	5.80	001
11	04 23NMW8R	WT	G	4/14/23	1150	—	—		6	X		X						X	X	X	X	X			002
12	~~04~~ 23NMW9R	WT																X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Wei/WSP	4/14/23	1447	Rachel Burruss/PACE	4-14-23	1447
STANDARD TAT	Rachel Burruss/PACE	4-14-23	1630	TJS/Pace	~~4/14/23~~	~~1630~~
All samples preserved					4-15-23	11:30
On ice						

SAMPLE CONDITIONS			
TEMP in C	3.7	3.7	
Received on Ice (Y/N)	Y	N	
Custody Sealed Cooler (Y/N)	Y	Y	
Samples Intact (Y/N)	Y	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Weideman

SIGNATURE of SAMPLER: M. Wei

DATE Signed: 04/14/23

Pace | **Receipt**
Effective Date:

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project #: WO# : 92662559

92662559

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

Carrier Tracking Number: 397036117342

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No **Date/Initials Person Examining Contents:** MG 4-17-15

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T070 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 3.7 **Correction Factor:** Add / Subtract (°C) 0

Corrected Cooler Temp (°C): 3.7

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling proc has begun

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1420 **Temp:** 3.7
Time: 1430 **put in cooler**
Time: **Temp:**

Person Contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax Document ID: 70677

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92662559

PM: AMB Due Date: 05/01/23

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	B P 1 N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		1	1			2																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

COCID: CPS-ISA2023-CCR-UAP-B-5-1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 3

Section A — Required Client Information:

Company:	Dominion Energy_VA
Address:	~~2108 W. Laburnum Ave~~ 120 Tredegar St.
~~Suite 200~~, Richmond, VA ~~23227~~	23219
Email:	~~arielle.green@golder.com~~ Kelly.A.Hicks@dominionenergy.com
Phone:	~~(804)358-7000~~ Fax:
Requested Due Date:	804-273-4903

Section B — Required Project Information:

Report To:	~~Arielle Green~~ Kelly Hicks
Copy To:	Arielle.Green@wsp.com
Purchase Order #:	
Project Name:	Chesterfield Power Station (B)
Project #:	31406066.007

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	angela.baioni@pacelabs.com,
Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

MATRIX CODES: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	
																		Y/N	Y	Y	Y	Y	Y	Y		92662559
1	~~04_23NWMT~~	WT																	X	X	X	X	X			
2	~~04_23NWMD~~	WT																	X	X	X	X	X			
3	~~04_23NMW2~~	WT																	X	X	X	X	X			
4	~~04_23NMW3~~	WT																	X	X	X	X	X			
5	~~04_23NMWD~~	WT																	X	X	X	X	X			
6	~~04_23NMW4~~	WT																	X	X	X	X	X			
7	~~04_23NMW5~~	WT																	X	X	X	X	X			
8	~~04_23NMW6~~	WT																	X	X	X	X	X			
9	~~04_23NMW6D~~	WT																	X	X	X	X	X			
10	04 3 23NMW7R	WT	G	4/14/23	1320	—	—		6	X		X							X	X	X	X	X	6.36	5.80	001
11	04 4 23NMW8R	WT	G	4/14/23	1150	—	—		6	X		X							X	X	X	X	X			002
12	~~04_23NMW9R~~	WT																	X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Wiedeman / WSP	4/14/23	1447	Rachel Burruss / PACE	4-14-23	1447
STANDARD TAT	Rachel Burruss / PACE	4-14-23	1630	TJS / Pace	~~4/14/23~~	~~1630~~
All samples preserved				mc	4-15-23	11:30
On ice						

SAMPLE CONDITIONS			
TEMP in C	3.7	3.3	
Received on Ice (Y/N)	Y	N	Y
Custody Sealed Cooler (Y/N)			
Samples Intact (Y/N)			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Wiedeman

SIGNATURE of SAMPLER: M. Wiedeman

DATE Signed: 04/14/23

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy - VA

Project #

WO# : 92661765

92661765

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: AD 4-12-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.4 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.4

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W T				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92661765

PM: AMB **Due Date: 04/26/23**

CLIENT: 92-DomEnergy

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1				2 ✓																		2 ✓				
2		1				2 ✓																		2 ✓				
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-ISA2023-UAP-B-2-1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~3108 W. Laburnum Ave~~ 120 Tredegar St.	Copy To:	Arielle.Green@AWSP.com	Company Name:	
	~~Suite 200~~, Richmond, ~~VA 23227~~ VA, 23219		Dominionenergy.com	Address:	
Email:	~~arielle.green@golder.com~~ Kelly.a.Hicks@d	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	Chesterfield Power Station (B)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	13861-

Regulatory Agency
State / Location
VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	92661765
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	N	N	N	N	N	N		
25	~~04_23NMW17S~~ CM	WT																X	X	X	X	X			
26	~~04_23NMW30U~~ CM	WT																X	X	X	X	X			
27	~~04_23NMW35D~~ CM	WT																X	X	X	X	X			
28	04_23NMWB31	WT	G	4/11/23	1325	—	—		5	X		X						X	X	X	X	X			001
29	04_23NMWB32	WT	G	4/11/23	1210	—	—		5	X		X						X	X	X	X	X			002
30	~~04_23NFBUAP~~	WT																X	X	X	X	X			
31	04_23NEDUAP1	WT																X	X	X	X	X			
32	~~04_23NEDUAP2~~	WT																X	X	X	X	X			
33		WT																X	X	X	X	X			
34																									
35																									
36																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV Data Package	M. Knez / WSP	04/11/23	1533		4/11/23	153	4.4	Y	N	Y
STANDARD TAT	BLE	4/11/23	1600	APO Pace PM	4-12-23	0955				
All Samples Preserved on ice										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	M. Knez		
SIGNATURE of SAMPLER:	MK	DATE Signed:	04/11/2023

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy_VA

Project #

WO# : 92661765

PM: AMB Due Date: 04/26/23

CLIENT: 92-DomEnergy

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

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: APC 4-18-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: See below Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): See below

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Cooler Temps 4.3, 0.3, 4.8, 0.2, 0.6.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # **WO#: 92661765**

PM: AMB **Due Date: 04/26/23**

CLIENT: 92-DomEnergy

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		3	3			6																			6				
3		1	1			2																			2				
4		1	1			2																			2				
5		1	1			2																			2				
6		1	1			2																			2				
7		1	1			2																			2				
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-ISA2023-CCR-UAP-B-3-1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A — Required Client Information:

Company: Dominion Energy_VA
Address: ~~2108 W. Laburnum Ave.~~ 120 Tredegar St
Suite 200, Richmond, VA ~~23227~~ 23219
Email: ~~arielle.green@golder.com~~ billy.a.hicks@dominionenergy.com
Phone: (804)358-7900 Fax
Requested Due Date:

Section B — Required Project Information:

Report To: ~~Arielle Green~~ Billy Hicks
Copy To: ArielleGreen@BNSP.com
Purchase Order #:
Project Name: Chesterfield Power Station (B)
Project #:

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: angela.baioni@pacelabs.com,
Pace Profile #: 13861-

Regulatory Agency

State / Location: VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU	Residual Chlorine (Y/N)	92662118
13	~~04_23NWM1-MS~~ CM	WT																		X	X	X	X	X			
14	~~04_23NWM1-MSD~~ CM	WT																		X	X	X	X	X			
15	~~04_23NMW18~~ CM	WT																		X	X	X	X	X			
16	~~04_23NMW11~~ CM	WT																		X	X	X	X	X			
17	~~04_23NMW12~~ CM	WT																		X	X	X	X	X			ADMS/UAPMSD
18	04_23NMW13	WT G	4/12/23	1005	—	—		6	X		X								X	X	X	X	X	6.34 SU		001	taken @ MW-14
19	04_23NMW14	WT G	4/12/23	1110	—	—		18	X		X								X	X	X	X	X	6.34 SU		002	~~MS/MSD~~ CM
20	~~04_23NMW14-MS~~ CM	WT																	X	X	X	X	X				~~taken @ MW-14~~ CM
21	~~04_23NMW14-MSD~~ CM	WT																	X	X	X	X	X				pH=6.34SU → MW-14
22	04_23NMW15	WT G	4/12/23	1215	—	—		6	X		X								X	X	X	X	X	6.59 SU		003	
23	04_23NMW16	WT G	4/12/23	1300	—	—		6	X		X								X	X	X	X	X			004	
24	~~04_23NMW16D~~ CM	WT																		X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Knox / WSP	4/12/23	1501		4/12/23	1501
STANDARD TAT		4/12/23	1600	APC PACCFIV	4-13-23	0926
All Samples Preserved on Ice						

SAMPLE CONDITIONS

2.4	Y	Y	Y
1.3 U.3	Y	N	Y
4.8 U.2			
0.6			

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	C. Magee		
SIGNATURE of SAMPLER:		DATE Signed:	04/12/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

COCID: CPS-ISA2023-CCR-UAP-B-3-1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy VA	Report To:	~~Arielle Green~~ Kelly Hicks	Attention:	
Address:	~~3108 W. Laburnum Ave.~~ 120 Tredegar St. Suite 200; Richmond, ~~VA 23227~~ VA, 23219	Copy To:	Arielle.Green@AWSP.com Dominionenergy.com	Company Name:	
Email:	~~arielle.green@golder.com~~ Kelly.a.Hicks@D	Purchase Order #:		Address:	
Phone:	(804)358-7900 Fax	Project Name:	Chesterfield Power Station (B)	Pace Quote:	
Requested Due Date:		Project #:		Pace Project Manager:	angela.baioni@pacelabs.com,
				Pace Profile #:	13861-

Regulatory Agency	
State / Location	VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, S04	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH Field (SU)	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																	N	N	N	N	N	N			
25	~~04_23NMW17S~~ CM	WT																x	x	x	x	x				9266218
26	04_23NMW30U	WT	G	4/12/23	1235	—	—		6	X		X						x	x	x	x	x	6.69			
27	04_23NMW35D	WT	G	4/12/23	1025	—	—		6	X		X						x	x	x	x	x	6.42			005
28	~~04_23NMWB31~~ CM	WT																x	x	x	x	x				006
29	~~04_23NMWB32~~ CM	WT																x	x	x	x	x				
30	~~04_23NFDUAP~~ CM	WT																x	x	x	x	x				
31	04_23NFDUAP1	WT	G	4/12/23	1220	—	—		6	X		X						x	x	x	x	x				007
32	~~04_23NFDUAP2~~ CM	WT																x	x	x	x	x				
33		WT																x	x	x	x	x				
34																										
35																										
36																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level IV Data Package	M. Knez / WSP	4/12/23	1501			
STANDARD TAT	~~Pace~~	4/12/23	1600	ARLISA CHILDS / PACE	4-13-23	0925
All Samples preserved on ice						

SAMPLE CONDITIONS			
12.6	X	X	X
0206	Y	N	Y
4.3, 03			
4.8			

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	M. Knez / C. Magee	
SIGNATURE of SAMPLER:	M. Knez / Golder	DATE Signed: 04/12/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy_VA

Project #

WO#: 92661765

PM: AMB Due Date: 04/26/23

CLIENT: 92-DomEnergy

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 4-13-23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 17070

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.5 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92661765

PM: AMB Due Date: 04/26/23

CLIENT: 92-DomEnergy

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																		2					
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COCID: CPS-1SA2023-CCR-VAP-B-3-2

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 3

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:	
Company: Dominion Energy_VA	Report To: ~~Ariella Green~~ Kelly.Hicks	Attention:	
Address: ~~2108 W. Laburnum Ave~~ 120 Tredegar St.	Copy To: Ariella.Green@WSP.com	Company Name:	
~~Suite 200~~, Richmond, VA ~~23227~~ 23219	Dominionenergy.com	Address:	Regulatory Agency
Email: ~~ariella.green@golder.com~~ Kelly.A.Hicks@	Purchase Order #:	Pace Quote:	
Phone: ~~(804)358-7000~~ Fax:	Project Name: Chesterfield Power Station (B)	Pace Project Manager: angela.baioni@pacelabs.com,	State / Location
Requested Due Date: 804-273-4903	Project #: 31406066.007	Pace Profile #: 13861-	VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Select metals-6010, 6020	Mercury by 7470	9056-Cl, Fl, SO4	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	92662061
	MATRIX CODES: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS									Requested Analysis Filtered (Y/N)															
1	~~04~~ 23NWMW	WT																	X	X	X	X	X		
2	04 23NWMD	WT																	X	X	X	X	X		
3	04 23NMW2	WT																	X	X	X	X	X		
4	04 23NMW3	WT																	X	X	X	X	X		
5	04 23NMWD	WT																	X	X	X	X	X		
6	04 23NMW4	WT																	X	X	X	X	X		
7	04 23NMW5	WT																	X	X	X	X	X		
8	04 23NMW8	WT																	X	X	X	X	X		
9	04 23NMW6D	WT																	X	X	X	X	X		
10	04 23NMW7R	WT																	X	X	X	X	X		
11	04 23NMW6R	WT																	X	X	X	X	X		
12	04 12 23NMW9R	WT	G	4/12/23	1425	—	—		6	X		X							X	X	X	X	X		PH = 6.13 SU @0'

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level IV Data Package	M. Weideman / WSP	4/12/23	1605		4/12/23	1605	Cool	X	X	X
STANDARD TAT		4/12/23	1614	ARC PACE PHX	4-12-23	0929	2.8	Y	N	Y
All Samples Preserved on ice										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Weideman

SIGNATURE of SAMPLER: M. Weideman DATE Signed: 04/12/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ANALYTICAL REPORT

June 23, 2023

Revised Report

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1607413
Samples Received:	04/20/2023
Project Number:	92662485
Description:	CPS-1SA2023-CCR-UAP-B

Report To: Angela Baioni
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078

Entire Report Reviewed By:

Haley Torrence
Project Manager

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



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 6

Sr: Sample Results 7

041323 NMWM1 L1607413-01 7

041323 NMW1D L1607413-02 8

041323 NMW2 L1607413-03 9

041323 NMW3 L1607413-04 10

041323 NMW3D L1607413-05 11

041323 NMW4 L1607413-06 12

041323 NMW5 L1607413-07 13

041323 NMW6 L1607413-08 14

041323 NMW6D L1607413-09 15

041323 NMW10 L1607413-10 16

041323 NMW11 L1607413-11 17

041323 NMW12 L1607413-12 18

041323 NMW16D L1607413-13 19

041323 NMW17S L1607413-14 20

041323 FBUAP L1607413-15 21

041323 NFDUAP2 L1607413-16 22

041323NMW7 L1607413-17 23

041323 NMW8R L1607413-18 24

Qc: Quality Control Summary 25

Radiochemistry by Method 903.0/9315 25

Radiochemistry by Method 904/9320 26

Gl: Glossary of Terms 28

Al: Accreditations & Locations 29

Sc: Sample Chain of Custody 30

041323 NMWM1 L1607413-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 10:40	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 18:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/31/23 08:55	SNR	Mt. Juliet, TN

041323 NMW1D L1607413-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 12:35	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 18:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/31/23 08:55	SNR	Mt. Juliet, TN

041323 NMW2 L1607413-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 12:50	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 19:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/31/23 08:55	SNR	Mt. Juliet, TN

041323 NMW3 L1607413-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 12:00	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 19:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/31/23 08:55	SNR	Mt. Juliet, TN

041323 NMW3D L1607413-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 11:30	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 19:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/31/23 08:55	SNR	Mt. Juliet, TN

041323 NMW4 L1607413-06 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 10:35	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 19:53	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW5 L1607413-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 09:40	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW6 L1607413-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 14:35	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW6D L1607413-09 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 13:55	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW10 L1607413-10 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 15:25	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 20:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW11 L1607413-11 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 13:20	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 21:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW12 L1607413-12 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 11:50	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 21:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW16D L1607413-13 Non-Potable Water

Collected by | Collected date/time 04/13/23 09:50 | Received date/time 04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 21:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW17S L1607413-14 Non-Potable Water

Collected by | Collected date/time 04/13/23 13:40 | Received date/time 04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 21:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 FBUAP L1607413-15 Non-Potable Water

Collected by | Collected date/time 04/13/23 10:20 | Received date/time 04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 22:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NFDUAP2 L1607413-16 Non-Potable Water

Collected by | Collected date/time 04/13/23 13:45 | Received date/time 04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 22:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323NMW7 L1607413-17 Non-Potable Water

Collected by | Collected date/time 04/14/23 13:20 | Received date/time 04/20/23 09:10

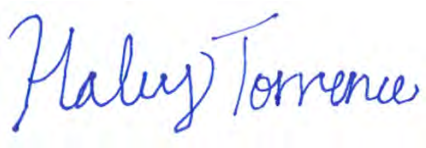
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 22:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

041323 NMW8R L1607413-18 Non-Potable Water

Collected by | Collected date/time 04/14/23 11:50 | Received date/time 04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055951	1	05/15/23 11:39	05/19/23 22:54	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062012	1	05/18/23 11:20	05/23/23 09:20	RRE	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055951	1	05/15/23 11:39	05/23/23 09:20	RRE	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Report Revision History

Level II Report - Version 1: 06/06/23 10:40
Level IV Report - Version 2: 06/12/23 10:55

Project Narrative

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.97		0.549	0.403	05/19/2023 18:53	WG2055951
(T) Barium	*98.0*			*30.0-143*	*05/19/2023 18:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	4.03	J6	0.416	0.646	05/31/2023 08:55	WG2061735
(T) Barium	*80.5*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*87.6*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	6.00		0.689	0.761	05/31/2023 08:55	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	4.32		0.762	0.273	05/19/2023 18:53	WG2055951
(T) Barium	*97.0*			*30.0-143*	*05/19/2023 18:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	4.76		0.314	0.432	05/31/2023 08:55	WG2061735
(T) Barium	*88.4*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*135*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	9.07		0.824	0.511	05/31/2023 08:55	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	5.37		0.827	0.251	05/19/2023 19:53	WG2055951
(T) Barium	*106*			*30.0-143*	*05/19/2023 19:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.35		0.313	0.464	05/31/2023 08:55	WG2061735
(T) Barium	*81.3*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*122*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	8.72		0.884	0.528	05/31/2023 08:55	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.939		0.372	0.260	05/19/2023 19:53	WG2055951
(T) Barium	*105*			*30.0-143*	*05/19/2023 19:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.739		0.298	0.520	05/31/2023 08:55	WG2061735
(T) Barium	*91.6*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*112*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.68		0.477	0.581	05/31/2023 08:55	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.102	U	0.240	0.403	05/19/2023 19:53	WG2055951
(T) Barium	*97.4*			*30.0-143*	*05/19/2023 19:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.136	U	0.268	0.485	05/31/2023 08:55	WG2061735
(T) Barium	*81.3*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*105*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.238	U	0.360	0.631	05/31/2023 08:55	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.694		0.324	0.267	05/19/2023 19:53	WG2055951
(T) Barium	*99.1*			*30.0-143*	*05/19/2023 19:53*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.998		0.590	0.802	05/23/2023 09:20	WG2062012
(T) Barium	*102*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*54.4*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.69		0.673	0.845	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.741		0.328	0.262	05/19/2023 20:54	WG2055951
(T) Barium	*99.8*			*30.0-143*	*05/19/2023 20:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.308	J	0.603	0.832	05/23/2023 09:20	WG2062012
(T) Barium	*107*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*61.7*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.05		0.686	0.872	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.550		0.301	0.276	05/19/2023 20:54	WG2055951
(T) Barium	*96.9*			*30.0-143*	*05/19/2023 20:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.527	J	0.651	0.895	05/23/2023 09:20	WG2062012
(T) Barium	*111*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*55.6*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.08		0.717	0.937	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.869		0.466	0.502	05/19/2023 20:54	WG2055951
(T) Barium	*75.7*			*30.0-143*	*05/19/2023 20:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.821	J	0.706	0.966	05/23/2023 09:20	WG2062012
(T) Barium	*104*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*53.9*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.69		0.846	1.09	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.338		0.248	0.272	05/19/2023 20:54	WG2055951
(T) Barium	*96.5*			*30.0-143*	*05/19/2023 20:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.154	U	0.683	0.953	05/23/2023 09:20	WG2062012
(T) Barium	*106*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*45.6*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.492	J	0.727	0.991	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.672		0.314	0.253	05/19/2023 21:54	WG2055951
(T) Barium	*104*			*30.0-143*	*05/19/2023 21:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.08		0.789	1.08	05/23/2023 09:20	WG2062012
(T) Barium	*114*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*39.4*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.76		0.849	1.11	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.408		0.267	0.274	05/19/2023 21:54	WG2055951
(T) Barium	*97.4*			*30.0-143*	*05/19/2023 21:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.193	U	0.491	0.696	05/23/2023 09:20	WG2062012
(T) Barium	*102*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*55.9*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.408	J	0.559	0.748	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.540		0.353	0.424	05/19/2023 21:54	WG2055951
(T) Barium	*90.9*			*30.0-143*	*05/19/2023 21:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.226	J	0.330	0.461	05/23/2023 09:20	WG2062012
(T) Barium	*115*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*74.3*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.766		0.483	0.626	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.900		0.364	0.269	05/19/2023 21:54	WG2055951
(T) Barium	*97.3*			*30.0-143*	*05/19/2023 21:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.02		0.448	0.582	05/23/2023 09:20	WG2062012
(T) Barium	*108*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*82.1*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.92		0.577	0.641	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.573		0.293	0.259	05/19/2023 22:54	WG2055951
(T) Barium	*100*			*30.0-143*	*05/19/2023 22:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.721	U	0.326	0.479	05/23/2023 09:20	WG2062012
(T) Barium	*108*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*83.7*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.573		0.438	0.545	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	1.12		0.410	0.279	05/19/2023 22:54	WG2055951
(T) Barium	*94.5*			*30.0-143*	*05/19/2023 22:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.537	U	0.402	0.576	05/23/2023 09:20	WG2062012
(T) Barium	*110*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*73.0*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.12		0.574	0.640	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.878		0.388	0.385	05/19/2023 22:54	WG2055951
(T) Barium	*101*			*30.0-143*	*05/19/2023 22:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.971		0.499	0.674	05/23/2023 09:20	WG2062012
(T) Barium	*111*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*66.9*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.85		0.632	0.776	05/23/2023 09:20	WG2055951

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.645		0.310	0.247	05/19/2023 22:54	WG2055951
(T) Barium	*108*			*30.0-143*	*05/19/2023 22:54*	WG2055951

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.327	J	0.539	0.744	05/23/2023 09:20	WG2062012
(T) Barium	*108*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*62.7*			*30.0-136*	*05/23/2023 09:20*	WG2062012

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.972		0.622	0.784	05/23/2023 09:20	WG2055951

Method Blank (MB)

(MB) R3927752-1 05/19/23 17:53

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.176		0.129	0.166
(T) Barium	*96.1*		*96.1*	

L1615544-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1615544-01 05/19/23 23:55 • (DUP) R3927752-5 05/19/23 18:53

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.418	0.273	0.279	1.08	0.593	0.279	1	88.6	1.02		20	3
(T) Barium	*94.2*			*99.7*	*99.7*							

Laboratory Control Sample (LCS)

(LCS) R3927752-2 05/19/23 17:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.82	116	80.0-120	
(T) Barium			*104*		

L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/19/23 18:53 • (MS) R3927752-3 05/19/23 17:53 • (MSD) R3927752-4 05/19/23 18:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	1.97	23.0	21.6	105	97.9	1	75.0-125			6.55		20
(T) Barium		*98.0*			*109*	*104*							

Method Blank (MB)

(MB) R3932968-2 05/31/23 08:55

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	0.510		0.175	0.303
(T) Barium	*80.6*		*80.6*	
(T) Yttrium	*117*		*117*	

L1611866-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-05 05/31/23 08:55 • (DUP) R3932968-5 05/31/23 08:55

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	-1.05	0.345	0.659	-1.23	0.448	0.659	1	0.000	0.313	U	20	3
(T) Barium	*85.3*			*81.0*	*81.0*							
(T) Yttrium	*127*			*143*	*143*					C1		

Laboratory Control Sample (LCS)

(LCS) R3932968-1 05/26/23 09:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	5.89	118	80.0-120	
(T) Barium			*94.2*		
(T) Yttrium			*74.8*		

L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/31/23 08:55 • (MS) R3932968-3 05/31/23 08:55 • (MSD) R3932968-4 05/31/23 08:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	4.03	11.0	11.8	69.2	77.2	1	70.0-130	J6		7.05		20
(T) Barium		*80.5*			*88.9*	*84.4*							
(T) Yttrium		*87.6*			*117*	*116*							

Method Blank (MB)

(MB) R3929488-1 05/23/23 09:20

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.165	J	0.243	0.338
(T) Barium	*107*		*107*	
(T) Yttrium	*71.1*		*71.1*	

L1607421-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1607421-01 05/23/23 09:20 • (DUP) R3929488-5 05/23/23 09:20

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.160	0.617	0.863	0.174	0.452	0.863	1	7.85	0.0171	U	20	3
(T) Barium	*125*			*97.5*	*97.5*							
(T) Yttrium	*46.5*			*72.3*	*72.3*							

Laboratory Control Sample (LCS)

(LCS) R3929488-2 05/23/23 09:20

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.77	95.3	80.0-120	
(T) Barium			*121*		
(T) Yttrium			*66.8*		

L1607413-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-08 05/23/23 09:20 • (MS) R3929488-3 05/23/23 09:20 • (MSD) R3929488-4 05/23/23 09:20

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.527	14.9	12.8	86.0	73.3	1	70.0-130			15.3		20
(T) Barium		*111*			*105*	*107*							
(T) Yttrium		*55.6*			*54.3*	*66.2*							

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: VA
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 4/15/2023 Results Requested By: 5/1/2023 5-18-23 AMB

Workorder: 92662485 Workorder Name: CPS-1SA2023-CCR-UAP-B

Report To	Subcontract To
Angela Baioni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3	Requested Analysis Ra226 903.0/9315	Ra228 9320, Combined Ra	LAB USE ONLY L1007413
1	041323 NMWM1	RQS	4/13/2023 10:40	92662485001	Water	10	X	X	-01
2	041323 NMW1D	PS	4/13/2023 12:35	92662485002	Water	2	X	X	-02
3	041323 NMW2	PS	4/13/2023 12:50	92662485003	Water	1	X	X	-03
4	041323 NMW3	PS	4/13/2023 12:00	92662485004	Water	1	X	X	-04
5	041323 NMW3D	PS	4/13/2023 11:30	92662485005	Water	1	X	X	-05
6	041323 NMW4	PS	4/13/2023 10:35	92662485006	Water	1	X	X	-06
7	041323 NMW5	PS	4/13/2023 09:40	92662485007	Water	1	X	X	-07
8	041323 NMW6	PS	4/13/2023 14:35	92662485008	Water	1	X	X	-08
9	041323 NMW6D	PS	4/13/2023 13:55	92662485009	Water	1	X	X	-09
10	041323 NMW10	PS	4/13/2023 15:25	92662485010	Water	1	X	X	-10
11	041323 NMW11	PS	4/13/2023 13:20	92662485011	Water	1	X	X	-11
12	041323 NMW12	PS	4/13/2023 11:50	92662485012	Water	1	X	X	-12
13	041323 NMW16D	PS	4/13/2023 09:50	92662485013	Water	1	X	X	-13
14	041323 NMW17S	PS	4/13/2023 13:40	92662485014	Water	1	X	X	-14
15	041323 FBUAP	PS	4/13/2023 10:20	92662485015	Water	1	X	X	-15
16	041323 NFDUAP2	PS	4/13/2023 13:45	92662485016	Water	1	X	X	-16
17	041423 NMW7R	PS	4/14/2023 13:20	92662559001	Water	1	X	X	-17
18	041423 NMW8R	PS	4/14/2023 11:50	92662559002	Water	1	X	X	-18

Level 4 DP requested

L160 7413

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Allrac Hrc	4/19/23 1800			Dominion Energy
2					
3			HANA MINEchiwa	4.20.23 0910	

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RAL Screen <0.5 mR/hr:	N		

5767 2591 5980 — 2.2+0 = 2.2
5767 2591 5970 — .1+0 = .1
5767 2591 6016 — 3.8+0 = 3.8
5767 2591 6005 — 1.9+0 = 1.9

L1607413

Pace Analytical®
www.pacelabs.com

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 92662485
(To be completed by sending lab)

Sending Project No:	92662485
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	04/19/23
REQUESTED COMPLETION DATE:	~~5/1/2023~~ 5-18-23 AMB

Sending Region	IR92-Charlotte	Sending Project Mgr.	Angela Baioni
Receiving Region	IR850-Pace National	External Client	Dominion Energy_VA
State of Sample Origin	VA	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Wet Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
Ra226 903.0/9315	BP1N	40	HNO3	18	$49.00	$882.00
Ra228 9320, Combined Ra	BP1N		HNO3	18	$49.00	$882.00
					TOTAL	$1,764.00

Special Requirements: Report D, QC Limits, MDLs (D),Dominion EQEDD (1616),Golder Equis 5 (34)

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Radiochemistry	38	$1,764.00	$1,411.20	$352.80
* Custom Revenue Allocation	**TOTAL**	$1,764.00	$1,411.20	$352.80

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

ANALYTICAL REPORT

July 19, 2023

Revised Report

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1605775
Samples Received:	04/15/2023
Project Number:	92661765
Description:	CPS-1SA2023-VAP-B
Site:	001
Report To:	Angela Baioni 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
Project Manager

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



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

041123NMWB31 L1605775-01 6

041123NMWB32 L1605775-02 7

041223NMW9R L1605775-03 8

041223NMW13 L1605775-04 9

041223NMW14 L1605775-05 10

041223NMW15 L1605775-06 11

041223NMW16 L1605775-07 12

041123NMW30U L1605775-08 13

041223NMW35D L1605775-09 14

041123FDUAP1 L1605775-10 15

Qc: Quality Control Summary 16

Radiochemistry by Method 903.0/9315 16

Radiochemistry by Method 904/9320 17

Gl: Glossary of Terms 18

Al: Accreditations & Locations 19

Sc: Sample Chain of Custody 20

041123NMWB31 L1605775-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/11/23 13:25	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 18:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041123NMWB32 L1605775-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/11/23 12:10	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 18:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW9R L1605775-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 14:25	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 19:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW13 L1605775-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 10:05	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 19:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW14 L1605775-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 11:10	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 19:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW15 L1605775-06 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 12:15	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 19:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW16 L1605775-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 13:00	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 20:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041123NMW30U L1605775-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 12:35	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 20:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041223NMW35D L1605775-09 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 10:25	04/15/23 09:00

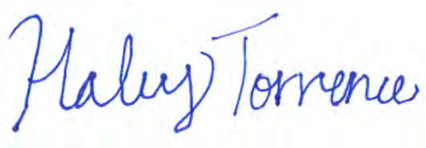
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 20:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

041123FDUAP1 L1605775-10 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 12:20	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051770	1	05/08/23 10:58	05/16/23 20:59	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051770	1	05/08/23 10:58	05/17/23 19:37	SWM	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Report Revision History

Level II Report - Version 1: 05/19/23 13:47
Level II Report - Version 2: 06/22/23 08:52
Level IV Report - Version 3: 07/06/23 13:39

Project Narrative

Updated Sample IDs

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.376		0.203	0.161	05/16/2023 18:59	WG2051770
(T) Barium	*105*			*30.0-143*	*05/16/2023 18:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0229	U	0.301	0.537	05/17/2023 19:37	WG2059132
(T) Barium	*105*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*93.9*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.399	J	0.363	0.561	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.37		0.368	0.164	05/16/2023 18:59	WG2051770
(T) Barium	*101*			*30.0-143*	*05/16/2023 18:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.11		0.265	0.376	05/17/2023 19:37	WG2059132
(T) Barium	*101*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*104*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.48		0.453	0.410	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.430		0.227	0.216	05/16/2023 19:59	WG2051770
(T) Barium	*96.9*			*30.0-143*	*05/16/2023 19:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.509		0.230	0.398	05/17/2023 19:37	WG2059132
(T) Barium	*104*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*99.8*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.938		0.323	0.453	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.535		0.250	0.217	05/16/2023 19:59	WG2051770
(T) Barium	*99.6*			*30.0-143*	*05/16/2023 19:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.01		0.308	0.524	05/17/2023 19:37	WG2059132
(T) Barium	*88.0*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*101*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.55		0.397	0.567	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.482		0.228	0.168	05/16/2023 19:59	WG2051770
(T) Barium	*98.7*			*30.0-143*	*05/16/2023 19:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.170	U	0.252	0.448	05/17/2023 19:37	WG2059132
(T) Barium	*108*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*109*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.652		0.340	0.478	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	1.17		0.340	0.160	05/16/2023 19:59	WG2051770
(T) Barium	*105*			*30.0-143*	*05/16/2023 19:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.49		0.257	0.414	05/17/2023 19:37	WG2059132
(T) Barium	*101*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*105*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.66		0.426	0.444	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.440		0.225	0.197	05/16/2023 20:59	WG2051770
(T) Barium	*109*			*30.0-143*	*05/16/2023 20:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.69		0.256	0.375	05/17/2023 19:37	WG2059132
(T) Barium	*109*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*112*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.12		0.341	0.424	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.697		0.294	0.233	05/16/2023 20:59	WG2051770
(T) Barium	*90.8*			*30.0-143*	*05/16/2023 20:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.04		0.275	0.461	05/17/2023 19:37	WG2059132
(T) Barium	*170*	C1		*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*109*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.74		0.403	0.517	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.375		0.202	0.166	05/16/2023 20:59	WG2051770
(T) Barium	*100*			*30.0-143*	*05/16/2023 20:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.123	U	0.253	0.463	05/17/2023 19:37	WG2059132
(T) Barium	*106*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*112*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.375	J	0.324	0.492	05/17/2023 19:37	WG2051770

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.916		0.303	0.165	05/16/2023 20:59	WG2051770
(T) Barium	*100*			*30.0-143*	*05/16/2023 20:59*	WG2051770

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.72		0.251	0.394	05/17/2023 19:37	WG2059132
(T) Barium	*105*			*30.0-143*	*05/17/2023 19:37*	WG2059132
(T) Yttrium	*105*			*30.0-136*	*05/17/2023 19:37*	WG2059132

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.64		0.393	0.427	05/17/2023 19:37	WG2051770

Method Blank (MB)

(MB) R3925664-1 05/16/23 17:59

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.237		0.121	0.137
(T) Barium	*96.7*		*96.7*	

Laboratory Control Sample (LCS)

(LCS) R3925664-2 05/16/23 17:59

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.69	114	80.0-120	
(T) Barium			*98.5*		

L1605775-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605775-05 05/16/23 19:59 • (MS) R3925664-3 05/16/23 17:59 • (MSD) R3925664-5 05/16/23 18:59

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.482	18.5	21.3	90.2	104	1	75.0-125			14.1		20
(T) Barium		*98.7*			*101*	*94.2*							

L1605791-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605791-01 05/16/23 22:00 • (MS) R3925664-4 05/16/23 17:59 • (MSD) R3925664-6 05/16/23 18:59

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.452	23.2	22.9	113	112	1	75.0-125			1.17		20
(T) Barium		*97.2*			*93.3*	*92.7*							

Method Blank (MB)

(MB) R3926623-1 05/17/23 19:37

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	0.0212	U	0.135	0.243
(T) Barium	*111*		*111*	
(T) Yttrium	*109*		*109*	

L1605749-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1605749-01 05/17/23 19:37 • (DUP) R3926623-5 05/17/23 19:37

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	0.349	0.336	0.594	0.582	0.353	0.594	1	50.0	0.477	J	20	3
(T) Barium	*106*			*110*	*110*							
(T) Yttrium	*103*			*97.7*	*97.7*							

Laboratory Control Sample (LCS)

(LCS) R3926623-2 05/17/23 19:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.32	86.5	80.0-120	
(T) Barium			*101*		
(T) Yttrium			*98.9*		

L1605775-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605775-05 05/17/23 19:37 • (MS) R3926623-3 05/17/23 19:37 • (MSD) R3926623-4 05/17/23 19:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.170	8.37	8.91	82.0	87.4	1	70.0-130			6.25		20
(T) Barium		*108*			*108*	*102*							
(T) Yttrium		*109*			*110*	*115*							

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: VA
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 4/12/2023 Results Requested By: ~~4/26/2023~~ 5/12/23 AMB

Workorder: 92661765 **Workorder Name:** CPS-1SA2023-VAP-B

Report To	Subcontract To
Angela Baioni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Ra 228 9320, Combined Ra	Ra226 903.0/9315											LAB USE ONLY
1	041123NMWB31	PS	4/11/2023 13:25	92661765001	Water	2						X	X											-01
2	041123NMWB32	PS	4/11/2023 12:10	92661765002	Water	1						X	X											-02
3	041223NMW9R	PS	4/12/2023 14:25	92662061001	Water	1						X	X											-03
4	041223NMW13	PS	4/12/2023 10:05	92662118001	Water	2	3					X	X											-04
5	041223NMW14	RQS	4/12/2023 11:10	92662118002	Water	~~2~~ 10						X	X											-05
6	041223NMW15	PS	4/12/2023 12:15	92662118003	Water	2	3					X	X											-06
7	041223NMW16	PS	4/12/2023 13:00	92662118004	Water	2	3					X	X											-07
8	041223NMW30U	PS	4/12/2023 12:35	92662118005	Water	2	3					X	X											-08
9	041223NMW35D	PS	4/12/2023 10:25	92662118006	Water	2	3					X	X											-09
10	041223NFDUAP1	PS	4/12/2023 12:20	92662118007	Water	2	3					X	X											-10

L1605775
K032

Transfers	Released By	Date/Time	Received By	Date/Time
1	AV Pace HuC	4/14/23 1800	M. Jewell	04/15/23 0900
2				
3				

Comments

Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

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

14.1+0-14.1 ~~NS~~ GBLV1

Friday, April

L1605725

Pace Analytical®
www.pacelabs.com

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 92661765
(To be completed by sending lab)

Sending Project No:	92661765
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	04/14/23
REQUESTED COMPLETION DATE:	~~4/26/2023~~ 5/12/23

Sending Region	IR92-Charlotte	Sending Project Mgr.	Angela Baioni
Receiving Region	IR850-Pace National	External Client	Dominion Energy_VA
State of Sample Origin	VA	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Wet Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of samples	Unit Price	Amount
Ra226 903.0/9315	BP1N	24	HNO3	10	$49.00	$490.00
Ra 228 9320, Combined Ra	BP1N		HNO3	10	$49.00	$490.00
					TOTAL	$980.00

Special Requirements: Report D, QC Limits, MDLs (D),Dominion EQEDD (1616),Golder Equis 5 (34)

Receiving Region Department	Accts. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Radiochemistry	38	$980.00	$784.00	$196.00
* Custom Revenue Allocation	TOTAL	$980.00	$784.00	$196.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 15, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92681294001	**080323NMW13**	Water	08/03/23 11:40	08/04/23 09:58
92681294002	**080323NFBUAP**	Water	08/03/23 10:40	08/04/23 09:58
92681294003	**080323FDUAP1**	Water	08/03/23 11:45	08/04/23 09:58

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92681294001	**080323NMW13**	EPA 6010D	DBB1	1	PASI-A
92681294002	**080323NFBUAP**	EPA 6010D	DBB1	1	PASI-A
92681294003	**080323FDUAP1**	EPA 6010D	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Method: **EPA 6010D**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: August 15, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323NMW13 **Lab ID: 92681294001** Collected: 08/03/23 11:40 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 20:49	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323NFBUAP **Lab ID: 92681294002** Collected: 08/03/23 10:40 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 20:58	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323FDUAP1 **Lab ID: 92681294003** Collected: 08/03/23 11:45 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 21:01	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

QC Batch: 793184
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92681294001, 92681294002, 92681294003

METHOD BLANK: 4110469 Matrix: Water
Associated Lab Samples: 92681294001, 92681294002, 92681294003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	ug/L	ND	1.0	0.70	08/13/23 20:29	

LABORATORY CONTROL SAMPLE: 4110470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4110473 4110474

Parameter	Units	92680736001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	ND	500	500	485	495	97	99	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92681294001	**080323NMW13**	EPA 3010A	793184	EPA 6010D	793188
92681294002	**080323NFBUAP**	EPA 3010A	793184	EPA 6010D	793188
92681294003	**080323FDUAP1**	EPA 3010A	793184	EPA 6010D	793188

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

Pace Analytical	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022 8:18:30 AM

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy VA

Project #:

WO# : 92681294

92681294

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

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 8-8-23 AR

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

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 93T082

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 0.9 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 0.9

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022 8:18:30 AM

WO#: 92681294

PM: AMB Due Date: 08/18/23

CLIENT: 92-DomEnergy

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH <2) (Cl-)	BP3N-250 mL plastic HNO3 (pH <2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH <2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH <2)	AG3S-250 mL Amber H2SO4 (pH <2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A--lab)	SPZT-250 mL Sterile Plastic (N/A--lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG8U-40 mL Amber Unpreserved Vials (N/A)
1						1 ✓																							
2						1 ✓																							
3						1 ✓																							
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COC ID: CPS_1SA2023_CCR_UAP_Resample_1_1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Catherine Pezzaro	Attention:	
Address:	2108 W. Laburnum Ave.	Copy To:	Crystal Shadle crystal.shadle@wsp.com	Company Name:	
Suite 200, Richmond, VA 23227				Address:	
Email:	catherine.pezzaro@wsp.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	CPS UAP 1st SA Resample-Group B	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:	31406066.007	Pace Profile #:	13861-

Regulatory Agency: —

State / Location: VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: 6010 - Beryllium	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N			
1	08032 3NMW13	WT	G	08/02/23	1140				1			X							X		92681294
2	08032 3NFBUAP	WT	G	08/02/23	1040				1			X							X		001
3	08032 3FDUAP1	WT	G	08/02/23	1145				1			X							X		002
4		WT																	X		003
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12						TT		TT													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*All samples preserved on ice	[illegible] WSP	8/4/23	958	[illegible] PACE	8-4-23	958
*Level II data package	[illegible] PACE	8/7/23	1600	A. Rucker / PACE / AVL	8-8-23	1110

SAMPLE CONDITIONS				
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
2	Y	Y	Y	
0.9	Y	N	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Torrisi / C. Magee

SIGNATURE of SAMPLER: [signature] [signature] DATE Signed: 08/03/23

APPENDIX B.2

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

FIRST SEMI-ANNUAL GROUNDWATER MONITORING VERIFICATION EVENT (AUGUST 2023)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 15, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92681294001	**080323NMW13**	Water	08/03/23 11:40	08/04/23 09:58
92681294002	**080323NFBUAP**	Water	08/03/23 10:40	08/04/23 09:58
92681294003	**080323FDUAP1**	Water	08/03/23 11:45	08/04/23 09:58

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92681294001	**080323NMW13**	EPA 6010D	DBB1	1	PASI-A
92681294002	**080323NFBUAP**	EPA 6010D	DBB1	1	PASI-A
92681294003	**080323FDUAP1**	EPA 6010D	DBB1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Method: **EPA 6010D**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: August 15, 2023

General Information:
3 samples were analyzed for EPA 6010D by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323NMW13 **Lab ID: 92681294001** Collected: 08/03/23 11:40 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 20:49	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323NFBUAP **Lab ID: 92681294002** Collected: 08/03/23 10:40 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 20:58	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Sample: 080323FDUAP1 **Lab ID: 92681294003** Collected: 08/03/23 11:45 Received: 08/04/23 09:58 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Beryllium	ND	ug/L	1.0	0.70	1	08/12/23 02:40	08/13/23 21:01	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

QC Batch: 793184
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92681294001, 92681294002, 92681294003

METHOD BLANK: 4110469 Matrix: Water
Associated Lab Samples: 92681294001, 92681294002, 92681294003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Beryllium	ug/L	ND	1.0	0.70	08/13/23 20:29	

LABORATORY CONTROL SAMPLE: 4110470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4110473 4110474

Parameter	Units	92680736001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	ug/L	ND	500	500	485	495	97	99	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_1SA2023_CCR_UAP_Resample
Pace Project No.: 92681294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92681294001	**080323NMW13**	EPA 3010A	793184	EPA 6010D	793188
92681294002	**080323NFBUAP**	EPA 3010A	793184	EPA 6010D	793188
92681294003	**080323FDUAP1**	EPA 3010A	793184	EPA 6010D	793188

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

Pace Analytical	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022 8:18:30 AM

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy VA

Project #:

WO# : 92681294

92681294

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

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: 8-8-23 AR

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

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 93T082

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 0.9 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 0.9

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022 8:18:30 AM

WO#: 92681294

PM: AMB Due Date: 08/18/23

CLIENT: 92-DomEnergy

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH <2) (Cl-)	BP3N-250 mL plastic HNO3 (pH <2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH <2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH <2)	AG3S-250 mL Amber H2SO4 (pH <2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A--lab)	SPZT-250 mL Sterile Plastic (N/A--lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG8U-40 mL Amber Unpreserved Vials (N/A)
1						1 ✓																							
2						1 ✓																							
3						1 ✓																							
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

COC ID: CPS_1SA2023_CCR_UAP_Resample_1_1

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Catherine Pezzaro	Attention:	
Address:	2108 W. Laburnum Ave.	Copy To:	Crystal Shadle crystal.shadle@wsp.com	Company Name:	
Suite 200, Richmond, VA 23227				Address:	
Email:	catherine.pezzaro@wsp.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax	Project Name:	CPS UAP 1st SA Resample-Group B	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:		Project #:	31406066.007	Pace Profile #:	13861-

Regulatory Agency: —

State / Location: VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: 6010 - Beryllium	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N			
1	08032 3NMW13	WT	G	08/02/23	1140				1			X							X		92681294
2	08032 3NFBUAP	WT	G	08/02/23	1040				1			X							X		001
3	08032 3FDUAP1	WT	G	08/02/23	1145				1			X							X		002
4		WT																	X		003
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12						TT		TT													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*All samples preserved on ice	[illegible] WSP	8/4/23	958	[illegible] PACE	8-4-23	958
*Level II data package	[illegible] PACE	8/7/23	1600	A. Rucker / PACE / AVL	8-8-23	1110

SAMPLE CONDITIONS				
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
2	Y	Y	Y	
0.9	Y	N	Y	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Torrisi / C. Magee

SIGNATURE of SAMPLER: [signature] [signature] DATE Signed: 08/03/23

APPENDIX B.3

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

SECOND SEMI-ANNUAL GROUNDWATER MONITORING EVENT (OCTOBER 2023)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 30, 2024

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory between October 10, 2023 and October 14, 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

A revised report is being formatted on 1/30/24 to report reanalysis results for sample 92692277-002, following a metals recheck request.

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

cc: Michael Knez, WSP
Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692277001	**100923NB31**	Water	10/09/23 13:10	10/10/23 10:35
92692277002	**101023NB32**	Water	10/10/23 11:55	10/11/23 11:15
92692277003	**101023NMW2**	Water	10/10/23 13:45	10/12/23 11:00
92692277004	**101023NMW3**	Water	10/10/23 15:00	10/12/23 11:00
92692277005	**101023NMW3D**	Water	10/10/23 15:55	10/12/23 11:00
92692277006	**101123NMW30U**	Water	10/11/23 09:15	10/12/23 11:00
92692277007	**101123NMW16**	Water	10/11/23 09:25	10/12/23 11:00
92692277008	**101123NMW1**	Water	10/11/23 09:25	10/12/23 11:00
92692277009	**101123NMW15**	Water	10/11/23 10:40	10/12/23 11:00
92692277010	**101123FDUAP1**	Water	10/11/23 10:45	10/12/23 11:00
92692277011	**101123NMW1D**	Water	10/11/23 11:20	10/12/23 11:00
92692277012	**101123NMW35D**	Water	10/11/23 12:25	10/12/23 11:00
92692277013	**101123NMW17S**	Water	10/11/23 12:20	10/12/23 11:00
92692277014	**101123NMW4**	Water	10/11/23 12:30	10/12/23 11:00
92692277015	**101123NMW7**	Water	10/11/23 14:45	10/13/23 11:45
92692277016	**101123NMW8R**	Water	10/11/23 13:55	10/13/23 11:45
92692277017	**101123NMW9R**	Water	10/11/23 14:05	10/13/23 11:45
92692277018	**101123NMW10**	Water	10/11/23 16:15	10/13/23 11:45
92692277019	**101223NMW14**	Water	10/12/23 09:45	10/13/23 11:45
92692277020	**101223NMW12**	Water	10/12/23 10:10	10/13/23 11:45
92692277021	**101223NMW13**	Water	10/12/23 11:30	10/13/23 11:45
92692277022	**101223NMW11**	Water	10/12/23 11:35	10/13/23 11:45
92692277023	**101223NMW5**	Water	10/12/23 13:05	10/13/23 11:45
92692277024	**101223NMW6**	Water	10/12/23 13:15	10/13/23 11:45
92692277025	**101223FBUAP**	Water	10/12/23 12:15	10/13/23 11:45
92692277026	**101223FDUAP2**	Water	10/12/23 13:25	10/13/23 11:45
92692277027	**101223NMW16D**	Water	10/12/23 14:35	10/14/23 11:45
92692277028	**101223NMW6D**	Water	10/12/23 15:35	10/14/23 11:45

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692277001	**100923NB31**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	CRW	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277002	**101023NB32**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277003	**101023NMW2**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277004	**101023NMW3**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277005	**101023NMW3D**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277006	**101123NMW30U**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277007	**101123NMW16**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277008	**101123NMW1**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9056A	CDC	3	PASI-A
92692277009	**101123NMW15**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277010	**101123FDUAP1**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277011	**101123NMW1D**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277012	**101123NMW35D**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277013	**101123NMW17S**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277014	**101123NMW4**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692277015	**101123NMW7**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277016	**101123NMW8R**	EPA 6010D	DBB1	7	PASI-A

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277017	**101123NMW9R**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277018	**101123NMW10**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277019	**101223NMW14**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277020	**101223NMW12**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277021	**101223NMW13**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277022	**101223NMW11**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277023	**101223NMW5**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277024	**101223NMW6**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277025	**101223FBUAP**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277026	**101223FDUAP2**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277027	**101223NMW16D**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692277028	**101223NMW6D**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	CRW, KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277001	**100923NB31**					
EPA 6010D	Barium	13.4	ug/L	5.0	10/12/23 23:24	
EPA 6010D	Calcium	2710	ug/L	100	10/12/23 23:24	
EPA 6020B	Arsenic	0.13J	ug/L	1.0	10/10/23 23:28	
EPA 6020B	Cobalt	0.35J	ug/L	1.0	10/10/23 23:28	
EPA 6020B	Lead	0.16J	ug/L	1.0	10/10/23 23:28	
EPA 6020B	Lithium	1.4J	ug/L	2.5	10/10/23 23:28	
EPA 6020B	Molybdenum	0.21J	ug/L	1.0	10/10/23 23:28	
EPA 9056A	Chloride	3.8	mg/L	1.0	10/14/23 01:05	
EPA 9056A	Fluoride	0.055J	mg/L	0.10	10/14/23 01:05	
EPA 9056A	Sulfate	5.7	mg/L	1.0	10/14/23 01:05	
92692277002	**101023NB32**					
EPA 6010D	Barium	38.3	ug/L	5.0	01/23/24 21:46	
EPA 6010D	Boron	2400	ug/L	50.0	01/23/24 21:46	
EPA 6010D	Calcium	3610	ug/L	100	10/12/23 23:45	
EPA 6020B	Arsenic	0.47J	ug/L	1.0	01/23/24 22:05	
EPA 6020B	Cobalt	5.7	ug/L	1.0	01/23/24 22:05	
EPA 6020B	Lead	0.19J	ug/L	1.0	01/23/24 22:05	
EPA 6020B	Lithium	6.7	ug/L	2.5	01/23/24 22:05	
EPA 6020B	Molybdenum	0.31J	ug/L	1.0	01/23/24 22:05	
EPA 6020B	Thallium	0.29	ug/L	0.20	01/23/24 22:05	
EPA 9056A	Chloride	100	mg/L	11.0	10/14/23 10:41	
EPA 9056A	Fluoride	0.18	mg/L	0.10	10/14/23 02:34	
EPA 9056A	Sulfate	531	mg/L	11.0	10/14/23 10:41	
92692277003	**101023NMW2**					
EPA 6010D	Barium	136	ug/L	5.0	10/18/23 12:47	
EPA 6010D	Boron	1410	ug/L	50.0	10/18/23 12:47	
EPA 6010D	Calcium	32700	ug/L	100	10/18/23 12:47	
EPA 6010D	Chromium	4.8J	ug/L	5.0	10/18/23 12:47	
EPA 6020B	Arsenic	1.2	ug/L	1.0	10/17/23 07:10	
EPA 6020B	Cobalt	14.5	ug/L	1.0	10/17/23 07:10	
EPA 6020B	Lead	1.6	ug/L	1.0	10/17/23 07:10	
EPA 6020B	Lithium	5.9	ug/L	2.5	10/17/23 07:10	
EPA 6020B	Molybdenum	0.13J	ug/L	1.0	10/17/23 07:10	
EPA 6020B	Thallium	0.051J	ug/L	0.20	10/17/23 07:10	
SM 2540C-2015	Total Dissolved Solids	298	mg/L	25.0	10/12/23 23:59	
EPA 9056A	Chloride	18.0	mg/L	1.0	10/14/23 03:27	
EPA 9056A	Fluoride	0.13	mg/L	0.10	10/14/23 03:27	
EPA 9056A	Sulfate	93.6	mg/L	2.0	10/14/23 10:58	
92692277004	**101023NMW3**					
EPA 6010D	Barium	167	ug/L	5.0	10/18/23 12:50	
EPA 6010D	Boron	879	ug/L	50.0	10/18/23 12:50	
EPA 6010D	Calcium	72500	ug/L	100	10/18/23 12:50	
EPA 6020B	Arsenic	0.51J	ug/L	1.0	10/17/23 07:15	
EPA 6020B	Cobalt	8.6	ug/L	1.0	10/17/23 07:15	
EPA 6020B	Lithium	23.3	ug/L	2.5	10/17/23 07:15	
EPA 6020B	Molybdenum	37.5	ug/L	1.0	10/17/23 07:15	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277004	**101023NMW3**					
EPA 6020B	Thallium	0.21	ug/L	0.20	10/17/23 07:15	
SM 2540C-2015	Total Dissolved Solids	337	mg/L	25.0	10/12/23 23:59	
EPA 9056A	Chloride	7.3	mg/L	1.0	10/14/23 03:41	
EPA 9056A	Fluoride	0.98	mg/L	0.10	10/14/23 03:41	
EPA 9056A	Sulfate	40.0	mg/L	1.0	10/14/23 03:41	
92692277005	**101023NMW3D**					
EPA 6010D	Barium	32.5	ug/L	5.0	10/18/23 12:59	
EPA 6010D	Boron	2410	ug/L	50.0	10/18/23 12:59	
EPA 6010D	Calcium	7610	ug/L	100	10/18/23 12:59	
EPA 6020B	Arsenic	0.76J	ug/L	1.0	10/17/23 07:20	
EPA 6020B	Cobalt	0.080J	ug/L	1.0	10/17/23 07:20	
EPA 6020B	Lead	0.13J	ug/L	1.0	10/17/23 07:20	
EPA 6020B	Lithium	33.9	ug/L	2.5	10/17/23 07:20	
EPA 6020B	Molybdenum	12.1	ug/L	1.0	10/17/23 07:20	
SM 2540C-2015	Total Dissolved Solids	697	mg/L	25.0	10/12/23 23:59	
EPA 9056A	Chloride	32.5	mg/L	1.0	10/14/23 04:25	
EPA 9056A	Fluoride	0.55	mg/L	0.10	10/14/23 04:25	
EPA 9056A	Sulfate	127	mg/L	3.0	10/14/23 11:12	
92692277006	**101123NMW30U**					
EPA 6010D	Barium	67.4	ug/L	5.0	10/18/23 13:02	
EPA 6010D	Boron	122	ug/L	50.0	10/18/23 13:02	
EPA 6010D	Calcium	7760	ug/L	100	10/18/23 13:02	
EPA 6020B	Arsenic	0.23J	ug/L	1.0	10/17/23 07:25	
EPA 6020B	Lithium	11.0	ug/L	2.5	10/17/23 07:25	
SM 2540C-2015	Total Dissolved Solids	154	mg/L	25.0	10/16/23 18:40	
EPA 9056A	Chloride	7.8	mg/L	1.0	10/14/23 04:39	
EPA 9056A	Fluoride	0.11	mg/L	0.10	10/14/23 04:39	
92692277007	**101123NMW16**					
EPA 6010D	Barium	29.7	ug/L	5.0	10/18/23 13:05	
EPA 6010D	Boron	4220	ug/L	50.0	10/18/23 13:05	
EPA 6010D	Calcium	440000	ug/L	1000	10/19/23 14:38	
EPA 6020B	Arsenic	0.25J	ug/L	1.0	10/18/23 01:33	
EPA 6020B	Cobalt	26.4	ug/L	1.0	10/18/23 01:33	
EPA 6020B	Lithium	151	ug/L	2.5	10/18/23 01:33	
EPA 6020B	Molybdenum	11.7	ug/L	1.0	10/18/23 01:33	
EPA 6020B	Thallium	0.55	ug/L	0.20	10/18/23 01:33	
SM 2540C-2015	Total Dissolved Solids	2650	mg/L	50.0	10/16/23 18:40	2g
EPA 9056A	Chloride	347	mg/L	19.0	10/14/23 11:27	
EPA 9056A	Fluoride	0.40	mg/L	0.10	10/14/23 04:54	
EPA 9056A	Sulfate	958	mg/L	19.0	10/14/23 11:27	
92692277008	**101123NMW1**					
EPA 6010D	Barium	140	ug/L	5.0	10/18/23 13:08	
EPA 6010D	Boron	3490	ug/L	50.0	10/18/23 13:08	M1
EPA 6010D	Calcium	147000	ug/L	1000	10/19/23 14:41	M1
EPA 6020B	Arsenic	0.92J	ug/L	1.0	10/18/23 01:38	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277008	**101123NMW1**					
EPA 6020B	Cobalt	6.5	ug/L	1.0	10/18/23 01:38	
EPA 6020B	Lithium	0.52J	ug/L	2.5	10/18/23 01:38	
EPA 6020B	Molybdenum	0.36J	ug/L	1.0	10/18/23 01:38	
SM 2540C-2015	Total Dissolved Solids	917	mg/L	25.0	10/16/23 18:40	
EPA 9056A	Chloride	152	mg/L	3.0	10/14/23 11:41	
EPA 9056A	Fluoride	0.12	mg/L	0.10	10/14/23 05:08	
EPA 9056A	Sulfate	162	mg/L	3.0	10/14/23 11:41	
92692277009	**101123NMW15**					
EPA 6010D	Barium	42.3	ug/L	5.0	10/18/23 13:19	
EPA 6010D	Boron	435	ug/L	50.0	10/18/23 13:19	
EPA 6010D	Calcium	73200	ug/L	100	10/18/23 13:19	
EPA 6020B	Arsenic	0.22J	ug/L	1.0	10/18/23 02:13	
EPA 6020B	Cobalt	52.4	ug/L	1.0	10/18/23 02:13	
EPA 6020B	Lithium	24.1	ug/L	2.5	10/18/23 02:13	
EPA 6020B	Molybdenum	0.19J	ug/L	1.0	10/18/23 02:13	
EPA 6020B	Thallium	0.21	ug/L	0.20	10/18/23 02:13	
SM 2540C-2015	Total Dissolved Solids	600	mg/L	25.0	10/16/23 18:40	
EPA 9056A	Chloride	93.9	mg/L	1.0	10/14/23 05:52	
EPA 9056A	Fluoride	0.060J	mg/L	0.10	10/14/23 05:52	
EPA 9056A	Sulfate	224	mg/L	5.0	10/14/23 12:24	
92692277010	**101123FDUAP1**					
EPA 6010D	Barium	43.1	ug/L	5.0	10/18/23 13:22	
EPA 6010D	Boron	441	ug/L	50.0	10/18/23 13:22	
EPA 6010D	Calcium	74600	ug/L	100	10/18/23 13:22	
EPA 6020B	Arsenic	0.22J	ug/L	1.0	10/18/23 02:18	
EPA 6020B	Cobalt	51.6	ug/L	1.0	10/18/23 02:18	
EPA 6020B	Lithium	23.7	ug/L	2.5	10/18/23 02:18	
EPA 6020B	Molybdenum	0.20J	ug/L	1.0	10/18/23 02:18	
EPA 6020B	Thallium	0.21	ug/L	0.20	10/18/23 02:18	
SM 2540C-2015	Total Dissolved Solids	619	mg/L	25.0	10/16/23 18:50	
EPA 9056A	Chloride	94.1	mg/L	1.0	10/14/23 06:07	
EPA 9056A	Fluoride	0.056J	mg/L	0.10	10/14/23 06:07	
EPA 9056A	Sulfate	227	mg/L	5.0	10/14/23 13:07	
92692277011	**101123NMW1D**					
EPA 6010D	Barium	26.3	ug/L	5.0	10/18/23 13:25	
EPA 6010D	Beryllium	1.3	ug/L	1.0	10/18/23 13:25	
EPA 6010D	Calcium	9030	ug/L	100	10/18/23 13:25	
EPA 6020B	Arsenic	0.88J	ug/L	1.0	10/18/23 02:23	
EPA 6020B	Cobalt	17.5	ug/L	1.0	10/18/23 02:23	
EPA 6020B	Lead	1.3	ug/L	1.0	10/18/23 02:23	
EPA 6020B	Lithium	9.3	ug/L	2.5	10/18/23 02:23	
EPA 6020B	Molybdenum	0.27J	ug/L	1.0	10/18/23 02:23	
EPA 6020B	Thallium	0.28	ug/L	0.20	10/18/23 02:23	
SM 2540C-2015	Total Dissolved Solids	187	mg/L	25.0	10/16/23 18:50	
EPA 9056A	Chloride	20.3	mg/L	1.0	10/14/23 06:21	
EPA 9056A	Fluoride	0.12	mg/L	0.10	10/14/23 06:21	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277011	**101123NMW1D**					
EPA 9056A	Sulfate	66.5	mg/L	1.0	10/14/23 06:21	
92692277012	**101123NMW35D**					
EPA 6010D	Barium	30.6	ug/L	5.0	10/18/23 13:40	
EPA 6010D	Boron	91.9	ug/L	50.0	10/18/23 13:40	
EPA 6010D	Calcium	7390	ug/L	100	10/18/23 13:40	
EPA 6020B	Arsenic	0.19J	ug/L	1.0	10/18/23 02:28	
EPA 6020B	Lithium	11.7	ug/L	2.5	10/18/23 02:28	
EPA 6020B	Molybdenum	0.57J	ug/L	1.0	10/18/23 02:28	
SM 2540C-2015	Total Dissolved Solids	144	mg/L	25.0	10/16/23 18:50	
EPA 9056A	Chloride	10.8	mg/L	1.0	10/14/23 06:36	
EPA 9056A	Fluoride	0.18	mg/L	0.10	10/14/23 06:36	
EPA 9056A	Sulfate	6.3	mg/L	1.0	10/14/23 06:36	
92692277013	**101123NMW17S**					
EPA 6010D	Barium	131	ug/L	5.0	10/18/23 13:43	
EPA 6010D	Boron	2440	ug/L	50.0	10/18/23 13:43	
EPA 6010D	Calcium	221000	ug/L	1000	10/19/23 14:52	
EPA 6020B	Arsenic	24.1	ug/L	1.0	10/18/23 02:33	
EPA 6020B	Cobalt	11.9	ug/L	1.0	10/18/23 02:33	
EPA 6020B	Molybdenum	12.8	ug/L	1.0	10/18/23 02:33	
EPA 6020B	Thallium	0.40	ug/L	0.20	10/18/23 02:33	
SM 2540C-2015	Total Dissolved Solids	958	mg/L	50.0	10/16/23 18:53	
EPA 9056A	Chloride	97.6	mg/L	3.0	10/14/23 13:21	
EPA 9056A	Fluoride	0.25	mg/L	0.10	10/14/23 07:19	
EPA 9056A	Sulfate	146	mg/L	3.0	10/14/23 13:21	
92692277014	**101123NMW4**					
EPA 6010D	Barium	19.0	ug/L	5.0	10/18/23 13:46	
EPA 6010D	Boron	1860	ug/L	50.0	10/18/23 13:46	
EPA 6010D	Calcium	84900	ug/L	100	10/18/23 13:46	
EPA 6020B	Arsenic	1.2	ug/L	1.0	10/18/23 02:38	
EPA 6020B	Cobalt	92.3	ug/L	1.0	10/18/23 02:38	
EPA 6020B	Lead	0.57J	ug/L	1.0	10/18/23 02:38	
EPA 6020B	Lithium	86.3	ug/L	2.5	10/18/23 02:38	
EPA 6020B	Thallium	0.28	ug/L	0.20	10/18/23 02:38	
SM 2540C-2015	Total Dissolved Solids	807	mg/L	25.0	10/16/23 18:53	
EPA 9056A	Chloride	2.1	mg/L	1.0	10/14/23 07:34	
EPA 9056A	Sulfate	435	mg/L	9.0	10/14/23 13:36	
92692277015	**101123NMW7**					
EPA 6010D	Barium	86.9	ug/L	5.0	10/18/23 14:32	
EPA 6010D	Boron	48.3J	ug/L	50.0	10/18/23 14:32	
EPA 6010D	Calcium	15000	ug/L	100	10/18/23 14:32	
EPA 6020B	Arsenic	0.65J	ug/L	1.0	10/18/23 07:01	
EPA 6020B	Cobalt	6.6	ug/L	1.0	10/18/23 07:01	
EPA 6020B	Lithium	11.5	ug/L	2.5	10/18/23 07:01	
EPA 6020B	Molybdenum	0.37J	ug/L	1.0	10/18/23 07:01	
SM 2540C-2015	Total Dissolved Solids	196	mg/L	25.0	10/16/23 18:53	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277015	**101123NMW7**					
EPA 9056A	Chloride	9.1	mg/L	1.0	10/14/23 15:15	
EPA 9056A	Fluoride	0.094J	mg/L	0.10	10/14/23 15:15	
EPA 9056A	Sulfate	62.5	mg/L	1.0	10/14/23 15:15	
92692277016	**101123NMW8R**					
EPA 6010D	Barium	221	ug/L	5.0	10/18/23 14:35	
EPA 6010D	Boron	1160	ug/L	50.0	10/18/23 14:35	
EPA 6010D	Cadmium	0.41J	ug/L	1.0	10/18/23 14:35	
EPA 6010D	Calcium	86500	ug/L	100	10/18/23 14:35	
EPA 6020B	Arsenic	13.9	ug/L	1.0	10/18/23 07:06	
EPA 6020B	Cobalt	1.3	ug/L	1.0	10/18/23 07:06	
EPA 6020B	Molybdenum	3.7	ug/L	1.0	10/18/23 07:06	
SM 2540C-2015	Total Dissolved Solids	566	mg/L	25.0	10/16/23 18:55	
EPA 9056A	Chloride	10.4	mg/L	1.0	10/14/23 15:28	
EPA 9056A	Fluoride	0.22	mg/L	0.10	10/14/23 15:28	
EPA 9056A	Sulfate	127	mg/L	3.0	10/15/23 00:16	
92692277017	**101123NMW9R**					
EPA 6010D	Barium	130	ug/L	5.0	10/18/23 14:38	
EPA 6010D	Boron	169	ug/L	50.0	10/18/23 14:38	
EPA 6010D	Calcium	42000	ug/L	100	10/18/23 14:38	
EPA 6020B	Arsenic	5.7	ug/L	1.0	10/18/23 07:11	
EPA 6020B	Cobalt	4.7	ug/L	1.0	10/18/23 07:11	
EPA 6020B	Lithium	1.0J	ug/L	2.5	10/18/23 07:11	
EPA 6020B	Molybdenum	0.39J	ug/L	1.0	10/18/23 07:11	
SM 2540C-2015	Total Dissolved Solids	254	mg/L	25.0	10/16/23 18:55	
EPA 9056A	Chloride	9.4	mg/L	1.0	10/14/23 15:42	
EPA 9056A	Fluoride	0.13	mg/L	0.10	10/14/23 15:42	
EPA 9056A	Sulfate	36.9	mg/L	1.0	10/14/23 15:42	
92692277018	**101123NMW10**					
EPA 6010D	Barium	191	ug/L	5.0	10/18/23 14:41	
EPA 6010D	Boron	264	ug/L	50.0	10/18/23 14:41	
EPA 6010D	Calcium	42100	ug/L	100	10/18/23 14:41	
EPA 6020B	Arsenic	5.8	ug/L	1.0	10/18/23 07:16	
EPA 6020B	Cobalt	12.2	ug/L	1.0	10/18/23 07:16	
EPA 6020B	Lithium	1.3J	ug/L	2.5	10/18/23 07:16	
EPA 6020B	Molybdenum	3.1	ug/L	1.0	10/18/23 07:16	
SM 2540C-2015	Total Dissolved Solids	288	mg/L	25.0	10/16/23 18:55	
EPA 9056A	Chloride	15.1	mg/L	1.0	10/14/23 15:55	
EPA 9056A	Fluoride	0.11	mg/L	0.10	10/14/23 15:55	
EPA 9056A	Sulfate	38.3	mg/L	1.0	10/14/23 15:55	
92692277019	**101223NMW14**					
EPA 6010D	Barium	9.4	ug/L	5.0	10/18/23 14:44	
EPA 6010D	Calcium	3080	ug/L	100	10/18/23 14:44	
EPA 6020B	Arsenic	0.25J	ug/L	1.0	10/18/23 07:46	
EPA 6020B	Cobalt	0.20J	ug/L	1.0	10/18/23 07:46	
EPA 6020B	Lead	0.088J	ug/L	1.0	10/18/23 07:46	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277019	**101223NMW14**					
EPA 6020B	Lithium	7.2	ug/L	2.5	10/18/23 07:46	
EPA 6020B	Molybdenum	0.13J	ug/L	1.0	10/18/23 07:46	
SM 2540C-2015	Total Dissolved Solids	82.0	mg/L	25.0	10/17/23 18:36	
EPA 9056A	Chloride	1.0	mg/L	1.0	10/14/23 16:09	
EPA 9056A	Fluoride	0.071J	mg/L	0.10	10/14/23 16:09	
EPA 9056A	Sulfate	8.1	mg/L	1.0	10/14/23 16:09	
92692277020	**101223NMW12**					
EPA 6010D	Barium	61.8	ug/L	5.0	10/18/23 15:01	
EPA 6010D	Boron	1540	ug/L	50.0	10/18/23 15:01	
EPA 6010D	Calcium	121000	ug/L	1000	10/19/23 14:55	
EPA 6020B	Arsenic	8.4	ug/L	1.0	10/18/23 08:11	
EPA 6020B	Cobalt	14.3	ug/L	1.0	10/18/23 08:11	
EPA 6020B	Lead	0.30J	ug/L	1.0	10/18/23 08:11	
EPA 6020B	Lithium	0.67J	ug/L	2.5	10/18/23 08:11	
EPA 6020B	Molybdenum	1.1	ug/L	1.0	10/18/23 08:11	
SM 2540C-2015	Total Dissolved Solids	726	mg/L	25.0	10/17/23 18:36	
EPA 9056A	Chloride	14.4	mg/L	1.0	10/14/23 17:16	
EPA 9056A	Fluoride	0.092J	mg/L	0.10	10/14/23 17:16	
EPA 9056A	Sulfate	212	mg/L	5.0	10/15/23 00:57	
92692277021	**101223NMW13**					
EPA 6010D	Barium	25.2	ug/L	5.0	10/18/23 15:04	
EPA 6010D	Boron	1790	ug/L	50.0	10/18/23 15:04	
EPA 6010D	Cadmium	5.0	ug/L	1.0	10/18/23 15:04	
EPA 6010D	Calcium	216000	ug/L	1000	10/19/23 14:58	
EPA 6010D	Chromium	4.6J	ug/L	5.0	10/18/23 15:04	
EPA 6020B	Arsenic	92.7	ug/L	1.0	10/18/23 08:16	
EPA 6020B	Cobalt	420	ug/L	5.0	10/18/23 14:14	
EPA 6020B	Lithium	127	ug/L	2.5	10/18/23 08:16	
EPA 6020B	Molybdenum	4.1	ug/L	1.0	10/18/23 08:16	
EPA 6020B	Thallium	0.41	ug/L	0.20	10/18/23 08:16	
SM 2540C-2015	Total Dissolved Solids	1920	mg/L	50.0	10/18/23 15:00	
EPA 9056A	Chloride	50.7	mg/L	1.0	10/14/23 17:29	
EPA 9056A	Fluoride	0.14	mg/L	0.10	10/14/23 17:29	
EPA 9056A	Sulfate	946	mg/L	21.0	10/15/23 01:11	
92692277022	**101223NMW11**					
EPA 6010D	Barium	162	ug/L	5.0	10/18/23 15:07	
EPA 6010D	Boron	1190	ug/L	50.0	10/18/23 15:07	
EPA 6010D	Calcium	98200	ug/L	100	10/18/23 15:07	
EPA 6020B	Arsenic	9.1	ug/L	1.0	10/18/23 08:21	
EPA 6020B	Cobalt	6.6	ug/L	1.0	10/18/23 08:21	
EPA 6020B	Molybdenum	1.4	ug/L	1.0	10/18/23 08:21	
SM 2540C-2015	Total Dissolved Solids	449	mg/L	25.0	10/18/23 15:00	
EPA 9056A	Chloride	8.9	mg/L	1.0	10/14/23 17:43	
EPA 9056A	Fluoride	0.11	mg/L	0.10	10/14/23 17:43	
EPA 9056A	Sulfate	45.5	mg/L	1.0	10/14/23 17:43	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277023	**101223NMW5**					
EPA 6010D	Barium	14.4	ug/L	5.0	10/18/23 15:10	
EPA 6010D	Boron	1620	ug/L	50.0	10/18/23 15:10	
EPA 6010D	Calcium	97800	ug/L	1000	10/19/23 15:01	
EPA 6020B	Arsenic	0.89J	ug/L	1.0	10/18/23 08:41	
EPA 6020B	Cobalt	27.7	ug/L	1.0	10/18/23 08:41	
EPA 6020B	Lithium	48.0	ug/L	2.5	10/18/23 08:41	
EPA 6020B	Thallium	0.079J	ug/L	0.20	10/18/23 08:41	
SM 2540C-2015	Total Dissolved Solids	961	mg/L	25.0	10/18/23 15:00	
EPA 9056A	Chloride	5.5	mg/L	1.0	10/14/23 17:56	
EPA 9056A	Sulfate	528	mg/L	12.0	10/15/23 01:25	
92692277024	**101223NMW6**					
EPA 6010D	Barium	28.9	ug/L	5.0	10/18/23 15:13	
EPA 6010D	Boron	1580	ug/L	50.0	10/18/23 15:13	
EPA 6010D	Calcium	73900	ug/L	100	10/18/23 15:13	
EPA 6020B	Arsenic	0.088J	ug/L	1.0	10/18/23 08:46	
EPA 6020B	Cobalt	0.49J	ug/L	1.0	10/18/23 08:46	
EPA 6020B	Lithium	165	ug/L	2.5	10/18/23 08:46	
SM 2540C-2015	Total Dissolved Solids	969	mg/L	25.0	10/18/23 15:03	
EPA 9056A	Chloride	5.0	mg/L	1.0	10/14/23 18:36	
EPA 9056A	Sulfate	485	mg/L	11.0	10/15/23 01:38	M1
92692277026	**101223FDUAP2**					
EPA 6010D	Barium	28.6	ug/L	5.0	10/18/23 15:19	
EPA 6010D	Boron	1560	ug/L	50.0	10/18/23 15:19	
EPA 6010D	Calcium	73200	ug/L	100	10/18/23 15:19	
EPA 6020B	Arsenic	0.091J	ug/L	1.0	10/18/23 08:56	
EPA 6020B	Cobalt	0.50J	ug/L	1.0	10/18/23 08:56	
EPA 6020B	Lithium	163	ug/L	2.5	10/18/23 08:56	
SM 2540C-2015	Total Dissolved Solids	977	mg/L	25.0	10/18/23 15:03	
EPA 9056A	Chloride	5.0	mg/L	1.0	10/14/23 19:57	
EPA 9056A	Sulfate	477	mg/L	11.0	10/15/23 02:19	
92692277027	**101223NMW16D**					
EPA 6010D	Barium	20.7	ug/L	5.0	10/19/23 17:17	
EPA 6010D	Boron	280	ug/L	50.0	10/19/23 17:17	
EPA 6010D	Calcium	35500	ug/L	100	10/19/23 17:17	
EPA 6020B	Arsenic	0.11J	ug/L	1.0	10/18/23 20:21	
EPA 6020B	Cobalt	0.44J	ug/L	1.0	10/18/23 20:21	
EPA 6020B	Lithium	17.3	ug/L	2.5	10/18/23 20:21	
EPA 6020B	Molybdenum	0.29J	ug/L	1.0	10/18/23 20:21	
SM 2540C-2015	Total Dissolved Solids	314	mg/L	25.0	10/18/23 15:03	
EPA 9056A	Chloride	38.5	mg/L	1.0	10/16/23 17:51	
EPA 9056A	Fluoride	0.099J	mg/L	0.10	10/16/23 17:51	
EPA 9056A	Sulfate	95.4	mg/L	2.0	10/16/23 21:04	
92692277028	**101223NMW6D**					
EPA 6010D	Barium	21.6	ug/L	5.0	10/19/23 17:20	
EPA 6010D	Boron	2020	ug/L	50.0	10/19/23 17:20	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692277028	**101223NMW6D**					
EPA 6010D	Cadmium	0.55J	ug/L	1.0	10/19/23 17:20	
EPA 6010D	Calcium	71800	ug/L	500	10/20/23 14:35	
EPA 6020B	Arsenic	0.51J	ug/L	1.0	10/18/23 20:57	
EPA 6020B	Cobalt	142	ug/L	1.0	10/18/23 20:57	
EPA 6020B	Lead	0.63J	ug/L	1.0	10/18/23 20:57	
EPA 6020B	Lithium	199	ug/L	5.0	10/19/23 20:06	
EPA 6020B	Molybdenum	1.5	ug/L	1.0	10/18/23 20:57	
EPA 6020B	Thallium	0.20	ug/L	0.20	10/18/23 20:57	
SM 2540C-2015	Total Dissolved Solids	1190	mg/L	25.0	10/18/23 15:03	
EPA 9056A	Chloride	5.8	mg/L	1.0	10/16/23 18:35	
EPA 9056A	Fluoride	0.12	mg/L	0.10	10/16/23 18:35	
EPA 9056A	Sulfate	659	mg/L	14.0	10/16/23 21:47	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Method: **EPA 6010D**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: January 30, 2024

General Information:
28 samples were analyzed for EPA 6010D by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 806534

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92692277008

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

- MS (Lab ID: 4176298)
  - Boron
  - Calcium
- MSD (Lab ID: 4176299)
  - Boron
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: January 30, 2024

General Information:
28 samples were analyzed for EPA 6020B by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: January 30, 2024

General Information:
28 samples were analyzed for EPA 7470A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Method: **SM 2540C-2015**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: January 30, 2024

General Information:
26 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 806680

2g: Constant weight could not be achieved for this sample after four drying cycles. The final weight change was 0.0061g.

- 101123NMW16 (Lab ID: 92692277007)
  - Total Dissolved Solids

QC Batch: 806887

1g: Constant weight could not be achieved for this sample after 4 drying cycles. The final weight change was 0.0155 g.

- DUP (Lab ID: 4178153)
  - Total Dissolved Solids

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: January 30, 2024

General Information:
28 samples were analyzed for EPA 9056A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 806350

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92692277019,92692693002

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

- MSD (Lab ID: 4175820)
  - Sulfate

QC Batch: 806351

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92692277024,92693216008

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

- MS (Lab ID: 4175825)
  - Fluoride
  - Sulfate
- MSD (Lab ID: 4175826)
  - Sulfate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 100923NB31 **Lab ID: 92692277001** Collected: 10/09/23 13:10 Received: 10/10/23 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**13.4**	ug/L	5.0	3.5	1	10/12/23 10:35	10/12/23 23:24	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/12/23 10:35	10/12/23 23:24	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/12/23 10:35	10/12/23 23:24	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/12/23 10:35	10/12/23 23:24	7440-43-9	
Calcium	**2710**	ug/L	100	94.2	1	10/12/23 10:35	10/12/23 23:24	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/12/23 10:35	10/12/23 23:24	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/12/23 10:35	10/12/23 23:24	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/10/23 15:20	10/10/23 23:28	7440-36-0	
Arsenic	**0.13J**	ug/L	1.0	0.087	1	10/10/23 15:20	10/10/23 23:28	7440-38-2	
Cobalt	**0.35J**	ug/L	1.0	0.050	1	10/10/23 15:20	10/10/23 23:28	7440-48-4	
Lead	**0.16J**	ug/L	1.0	0.077	1	10/10/23 15:20	10/10/23 23:28	7439-92-1	
Lithium	**1.4J**	ug/L	2.5	0.50	1	10/10/23 15:20	10/10/23 23:28	7439-93-2	
Molybdenum	**0.21J**	ug/L	1.0	0.13	1	10/10/23 15:20	10/10/23 23:28	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/10/23 15:20	10/10/23 23:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 09:51	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		10/14/23 01:05	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		10/14/23 01:05	16984-48-8	
Sulfate	**5.7**	mg/L	1.0	0.50	1		10/14/23 01:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101023NB32 **Lab ID: 92692277002** Collected: 10/10/23 11:55 Received: 10/11/23 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**38.3**	ug/L	5.0	0.79	1	01/23/24 11:50	01/23/24 21:46	7440-39-3	
Beryllium	ND	ug/L	1.0	0.16	1	01/23/24 11:50	01/23/24 21:46	7440-41-7	
Boron	**2400**	ug/L	50.0	4.0	1	01/23/24 11:50	01/23/24 21:46	7440-42-8	
Cadmium	ND	ug/L	1.0	0.29	1	01/23/24 11:50	01/23/24 21:46	7440-43-9	
Calcium	**3610**	ug/L	100	94.2	1	10/12/23 10:35	10/12/23 23:45	7440-70-2	
Chromium	ND	ug/L	5.0	0.63	1	01/23/24 11:50	01/23/24 21:46	7440-47-3	
Selenium	ND	ug/L	10.0	4.1	1	01/23/24 11:50	01/23/24 21:46	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	01/23/24 11:50	01/23/24 22:05	7440-36-0	
Arsenic	**0.47J**	ug/L	1.0	0.087	1	01/23/24 11:50	01/23/24 22:05	7440-38-2	
Cobalt	**5.7**	ug/L	1.0	0.050	1	01/23/24 11:50	01/23/24 22:05	7440-48-4	
Lead	**0.19J**	ug/L	1.0	0.077	1	01/23/24 11:50	01/23/24 22:05	7439-92-1	
Lithium	**6.7**	ug/L	2.5	0.50	1	01/23/24 11:50	01/23/24 22:05	7439-93-2	
Molybdenum	**0.31J**	ug/L	1.0	0.13	1	01/23/24 11:50	01/23/24 22:05	7439-98-7	
Thallium	**0.29**	ug/L	0.20	0.050	1	01/23/24 11:50	01/23/24 22:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 09:53	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**100**	mg/L	11.0	6.6	11		10/14/23 10:41	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		10/14/23 02:34	16984-48-8	
Sulfate	**531**	mg/L	11.0	5.5	11		10/14/23 10:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101023NMW2 **Lab ID: 92692277003** Collected: 10/10/23 13:45 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**136**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 12:47	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 12:47	7440-41-7	
Boron	**1410**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 12:47	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 12:47	7440-43-9	
Calcium	**32700**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 12:47	7440-70-2	
Chromium	**4.8J**	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 12:47	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 12:47	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/17/23 07:10	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.087	1	10/16/23 12:25	10/17/23 07:10	7440-38-2	
Cobalt	**14.5**	ug/L	1.0	0.050	1	10/16/23 12:25	10/17/23 07:10	7440-48-4	
Lead	**1.6**	ug/L	1.0	0.077	1	10/16/23 12:25	10/17/23 07:10	7439-92-1	
Lithium	**5.9**	ug/L	2.5	0.50	1	10/16/23 12:25	10/17/23 07:10	7439-93-2	
Molybdenum	**0.13J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/17/23 07:10	7439-98-7	
Thallium	**0.051J**	ug/L	0.20	0.050	1	10/16/23 12:25	10/17/23 07:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 09:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**298**	mg/L	25.0	25.0	1		10/12/23 23:59		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		10/14/23 03:27	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		10/14/23 03:27	16984-48-8	
Sulfate	**93.6**	mg/L	2.0	1.0	2		10/14/23 10:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101023NMW3 **Lab ID: 92692277004** Collected: 10/10/23 15:00 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**167**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 12:50	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 12:50	7440-41-7	
Boron	**879**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 12:50	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 12:50	7440-43-9	
Calcium	**72500**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 12:50	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 12:50	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 12:50	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/17/23 07:15	7440-36-0	
Arsenic	**0.51J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/17/23 07:15	7440-38-2	
Cobalt	**8.6**	ug/L	1.0	0.050	1	10/16/23 12:25	10/17/23 07:15	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/17/23 07:15	7439-92-1	
Lithium	**23.3**	ug/L	2.5	0.50	1	10/16/23 12:25	10/17/23 07:15	7439-93-2	
Molybdenum	**37.5**	ug/L	1.0	0.13	1	10/16/23 12:25	10/17/23 07:15	7439-98-7	
Thallium	**0.21**	ug/L	0.20	0.050	1	10/16/23 12:25	10/17/23 07:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 09:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**337**	mg/L	25.0	25.0	1		10/12/23 23:59		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		10/14/23 03:41	16887-00-6	
Fluoride	**0.98**	mg/L	0.10	0.050	1		10/14/23 03:41	16984-48-8	
Sulfate	**40.0**	mg/L	1.0	0.50	1		10/14/23 03:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101023NMW3D **Lab ID: 92692277005** Collected: 10/10/23 15:55 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**32.5**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 12:59	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 12:59	7440-41-7	
Boron	**2410**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 12:59	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 12:59	7440-43-9	
Calcium	**7610**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 12:59	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 12:59	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 12:59	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/17/23 07:20	7440-36-0	
Arsenic	**0.76J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/17/23 07:20	7440-38-2	
Cobalt	**0.080J**	ug/L	1.0	0.050	1	10/16/23 12:25	10/17/23 07:20	7440-48-4	
Lead	**0.13J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/17/23 07:20	7439-92-1	
Lithium	**33.9**	ug/L	2.5	0.50	1	10/16/23 12:25	10/17/23 07:20	7439-93-2	
Molybdenum	**12.1**	ug/L	1.0	0.13	1	10/16/23 12:25	10/17/23 07:20	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/17/23 07:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 09:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**697**	mg/L	25.0	25.0	1		10/12/23 23:59		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**32.5**	mg/L	1.0	0.60	1		10/14/23 04:25	16887-00-6	
Fluoride	**0.55**	mg/L	0.10	0.050	1		10/14/23 04:25	16984-48-8	
Sulfate	**127**	mg/L	3.0	1.5	3		10/14/23 11:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW30U **Lab ID: 92692277006** Collected: 10/11/23 09:15 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**67.4**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:02	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:02	7440-41-7	
Boron	**122**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:02	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:02	7440-43-9	
Calcium	**7760**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:02	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:02	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:02	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/17/23 07:25	7440-36-0	
Arsenic	**0.23J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/17/23 07:25	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	10/16/23 12:25	10/17/23 07:25	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/17/23 07:25	7439-92-1	
Lithium	**11.0**	ug/L	2.5	0.50	1	10/16/23 12:25	10/17/23 07:25	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/17/23 07:25	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/17/23 07:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**154**	mg/L	25.0	25.0	1		10/16/23 18:40		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**7.8**	mg/L	1.0	0.60	1		10/14/23 04:39	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		10/14/23 04:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 04:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW16 **Lab ID: 92692277007** Collected: 10/11/23 09:25 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**29.7**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:05	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:05	7440-41-7	
Boron	**4220**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:05	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:05	7440-43-9	
Calcium	**440000**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 14:38	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:05	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:05	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 01:33	7440-36-0	
Arsenic	**0.25J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 01:33	7440-38-2	
Cobalt	**26.4**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 01:33	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 01:33	7439-92-1	
Lithium	**151**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 01:33	7439-93-2	
Molybdenum	**11.7**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 01:33	7439-98-7	
Thallium	**0.55**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 01:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2650**	mg/L	50.0	50.0	1		10/16/23 18:40		2g
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**347**	mg/L	19.0	11.4	19		10/14/23 11:27	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.050	1		10/14/23 04:54	16984-48-8	
Sulfate	**958**	mg/L	19.0	9.5	19		10/14/23 11:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW1 **Lab ID: 92692277008** Collected: 10/11/23 09:25 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**140**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:08	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:08	7440-41-7	
Boron	**3490**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:08	7440-42-8	M1
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:08	7440-43-9	
Calcium	**147000**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 14:41	7440-70-2	M1
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:08	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:08	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 01:38	7440-36-0	
Arsenic	**0.92J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 01:38	7440-38-2	
Cobalt	**6.5**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 01:38	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 01:38	7439-92-1	
Lithium	**0.52J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 01:38	7439-93-2	
Molybdenum	**0.36J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 01:38	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 01:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**917**	mg/L	25.0	25.0	1		10/16/23 18:40		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**152**	mg/L	3.0	1.8	3		10/14/23 11:41	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		10/14/23 05:08	16984-48-8	
Sulfate	**162**	mg/L	3.0	1.5	3		10/14/23 11:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW15 **Lab ID: 92692277009** Collected: 10/11/23 10:40 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**42.3**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:19	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:19	7440-41-7	
Boron	**435**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:19	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:19	7440-43-9	
Calcium	**73200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:19	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:19	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:19	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:13	7440-36-0	
Arsenic	**0.22J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:13	7440-38-2	
Cobalt	**52.4**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:13	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:13	7439-92-1	
Lithium	**24.1**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:13	7439-93-2	
Molybdenum	**0.19J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:13	7439-98-7	
Thallium	**0.21**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**600**	mg/L	25.0	25.0	1		10/16/23 18:40		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**93.9**	mg/L	1.0	0.60	1		10/14/23 05:52	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		10/14/23 05:52	16984-48-8	
Sulfate	**224**	mg/L	5.0	2.5	5		10/14/23 12:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123FDUAP1 **Lab ID: 92692277010** Collected: 10/11/23 10:45 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**43.1**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:22	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:22	7440-41-7	
Boron	**441**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:22	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:22	7440-43-9	
Calcium	**74600**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:22	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:22	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:22	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:18	7440-36-0	
Arsenic	**0.22J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:18	7440-38-2	
Cobalt	**51.6**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:18	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:18	7439-92-1	
Lithium	**23.7**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:18	7439-93-2	
Molybdenum	**0.20J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:18	7439-98-7	
Thallium	**0.21**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**619**	mg/L	25.0	25.0	1		10/16/23 18:50		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**94.1**	mg/L	1.0	0.60	1		10/14/23 06:07	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		10/14/23 06:07	16984-48-8	
Sulfate	**227**	mg/L	5.0	2.5	5		10/14/23 13:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW1D **Lab ID: 92692277011** Collected: 10/11/23 11:20 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**26.3**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:25	7440-39-3	
Beryllium	**1.3**	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:25	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:25	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:25	7440-43-9	
Calcium	**9030**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:25	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:25	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:25	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:23	7440-36-0	
Arsenic	**0.88J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:23	7440-38-2	
Cobalt	**17.5**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:23	7440-48-4	
Lead	**1.3**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:23	7439-92-1	
Lithium	**9.3**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:23	7439-93-2	
Molybdenum	**0.27J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:23	7439-98-7	
Thallium	**0.28**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**187**	mg/L	25.0	25.0	1		10/16/23 18:50		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**20.3**	mg/L	1.0	0.60	1		10/14/23 06:21	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		10/14/23 06:21	16984-48-8	
Sulfate	**66.5**	mg/L	1.0	0.50	1		10/14/23 06:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW35D **Lab ID: 92692277012** Collected: 10/11/23 12:25 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**30.6**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:40	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:40	7440-41-7	
Boron	**91.9**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:40	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:40	7440-43-9	
Calcium	**7390**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:40	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:40	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:40	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:28	7440-36-0	
Arsenic	**0.19J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:28	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:28	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:28	7439-92-1	
Lithium	**11.7**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:28	7439-93-2	
Molybdenum	**0.57J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:28	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**144**	mg/L	25.0	25.0	1		10/16/23 18:50		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**10.8**	mg/L	1.0	0.60	1		10/14/23 06:36	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		10/14/23 06:36	16984-48-8	
Sulfate	**6.3**	mg/L	1.0	0.50	1		10/14/23 06:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW17S **Lab ID: 92692277013** Collected: 10/11/23 12:20 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**131**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:43	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:43	7440-41-7	
Boron	**2440**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:43	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:43	7440-43-9	
Calcium	**221000**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 14:52	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:43	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:43	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:33	7440-36-0	
Arsenic	**24.1**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:33	7440-38-2	
Cobalt	**11.9**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:33	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:33	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:33	7439-93-2	
Molybdenum	**12.8**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:33	7439-98-7	
Thallium	**0.40**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**958**	mg/L	50.0	50.0	1		10/16/23 18:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**97.6**	mg/L	3.0	1.8	3		10/14/23 13:21	16887-00-6	
Fluoride	**0.25**	mg/L	0.10	0.050	1		10/14/23 07:19	16984-48-8	
Sulfate	**146**	mg/L	3.0	1.5	3		10/14/23 13:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW4 **Lab ID: 92692277014** Collected: 10/11/23 12:30 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**19.0**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:46	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:46	7440-41-7	
Boron	**1860**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:46	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:46	7440-43-9	
Calcium	**84900**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:46	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:46	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:46	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:38	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:38	7440-38-2	
Cobalt	**92.3**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:38	7440-48-4	
Lead	**0.57J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:38	7439-92-1	
Lithium	**86.3**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:38	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:38	7439-98-7	
Thallium	**0.28**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**807**	mg/L	25.0	25.0	1		10/16/23 18:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		10/14/23 07:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 07:34	16984-48-8	
Sulfate	**435**	mg/L	9.0	4.5	9		10/14/23 13:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW7 **Lab ID: 92692277015** Collected: 10/11/23 14:45 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**86.9**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:32	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:32	7440-41-7	
Boron	**48.3J**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:32	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:32	7440-43-9	
Calcium	**15000**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:32	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:32	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:32	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 07:01	7440-36-0	
Arsenic	**0.65J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 07:01	7440-38-2	
Cobalt	**6.6**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 07:01	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 07:01	7439-92-1	
Lithium	**11.5**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 07:01	7439-93-2	
Molybdenum	**0.37J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 07:01	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 07:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**196**	mg/L	25.0	25.0	1		10/16/23 18:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**9.1**	mg/L	1.0	0.60	1		10/14/23 15:15	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		10/14/23 15:15	16984-48-8	
Sulfate	**62.5**	mg/L	1.0	0.50	1		10/14/23 15:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW8R **Lab ID: 92692277016** Collected: 10/11/23 13:55 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**221**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:35	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:35	7440-41-7	
Boron	**1160**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:35	7440-42-8	
Cadmium	**0.41J**	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:35	7440-43-9	
Calcium	**86500**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:35	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:35	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:35	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 07:06	7440-36-0	
Arsenic	**13.9**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 07:06	7440-38-2	
Cobalt	**1.3**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 07:06	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 07:06	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 07:06	7439-93-2	
Molybdenum	**3.7**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 07:06	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 07:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**566**	mg/L	25.0	25.0	1		10/16/23 18:55		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		10/14/23 15:28	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		10/14/23 15:28	16984-48-8	
Sulfate	**127**	mg/L	3.0	1.5	3		10/15/23 00:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW9R **Lab ID: 92692277017** Collected: 10/11/23 14:05 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**130**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:38	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:38	7440-41-7	
Boron	**169**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:38	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:38	7440-43-9	
Calcium	**42000**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:38	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:38	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:38	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 07:11	7440-36-0	
Arsenic	**5.7**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 07:11	7440-38-2	
Cobalt	**4.7**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 07:11	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 07:11	7439-92-1	
Lithium	**1.0J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 07:11	7439-93-2	
Molybdenum	**0.39J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 07:11	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 07:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**254**	mg/L	25.0	25.0	1		10/16/23 18:55		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**9.4**	mg/L	1.0	0.60	1		10/14/23 15:42	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		10/14/23 15:42	16984-48-8	
Sulfate	**36.9**	mg/L	1.0	0.50	1		10/14/23 15:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101123NMW10 **Lab ID: 92692277018** Collected: 10/11/23 16:15 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**191**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:41	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:41	7440-41-7	
Boron	**264**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:41	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:41	7440-43-9	
Calcium	**42100**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:41	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:41	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:41	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 07:16	7440-36-0	
Arsenic	**5.8**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 07:16	7440-38-2	
Cobalt	**12.2**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 07:16	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 07:16	7439-92-1	
Lithium	**1.3J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 07:16	7439-93-2	
Molybdenum	**3.1**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 07:16	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 07:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**288**	mg/L	25.0	25.0	1		10/16/23 18:55		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**15.1**	mg/L	1.0	0.60	1		10/14/23 15:55	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		10/14/23 15:55	16984-48-8	
Sulfate	**38.3**	mg/L	1.0	0.50	1		10/14/23 15:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW14 **Lab ID: 92692277019** Collected: 10/12/23 09:45 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**9.4**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:44	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:44	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:44	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:44	7440-43-9	
Calcium	**3080**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:44	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:44	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:44	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 07:46	7440-36-0	
Arsenic	**0.25J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 07:46	7440-38-2	
Cobalt	**0.20J**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 07:46	7440-48-4	
Lead	**0.088J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 07:46	7439-92-1	
Lithium	**7.2**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 07:46	7439-93-2	
Molybdenum	**0.13J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 07:46	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 07:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 11:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**82.0**	mg/L	25.0	25.0	1		10/17/23 18:36		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		10/14/23 16:09	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		10/14/23 16:09	16984-48-8	
Sulfate	**8.1**	mg/L	1.0	0.50	1		10/14/23 16:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW12 **Lab ID: 92692277020** Collected: 10/12/23 10:10 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**61.8**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:01	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:01	7440-41-7	
Boron	**1540**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:01	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:01	7440-43-9	
Calcium	**121000**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 14:55	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:01	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:01	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:11	7440-36-0	
Arsenic	**8.4**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:11	7440-38-2	
Cobalt	**14.3**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:11	7440-48-4	
Lead	**0.30J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:11	7439-92-1	
Lithium	**0.67J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:11	7439-93-2	
Molybdenum	**1.1**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:11	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 10:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**726**	mg/L	25.0	25.0	1		10/17/23 18:36		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**14.4**	mg/L	1.0	0.60	1		10/14/23 17:16	16887-00-6	
Fluoride	**0.092J**	mg/L	0.10	0.050	1		10/14/23 17:16	16984-48-8	
Sulfate	**212**	mg/L	5.0	2.5	5		10/15/23 00:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW13 **Lab ID: 92692277021** Collected: 10/12/23 11:30 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**25.2**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:04	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:04	7440-41-7	
Boron	**1790**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:04	7440-42-8	
Cadmium	**5.0**	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:04	7440-43-9	
Calcium	**216000**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 14:58	7440-70-2	
Chromium	**4.6J**	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:04	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:04	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:16	7440-36-0	
Arsenic	**92.7**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:16	7440-38-2	
Cobalt	**420**	ug/L	5.0	0.25	5	10/16/23 12:25	10/18/23 14:14	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:16	7439-92-1	
Lithium	**127**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:16	7439-93-2	
Molybdenum	**4.1**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:16	7439-98-7	
Thallium	**0.41**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1920**	mg/L	50.0	50.0	1		10/18/23 15:00		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**50.7**	mg/L	1.0	0.60	1		10/14/23 17:29	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		10/14/23 17:29	16984-48-8	
Sulfate	**946**	mg/L	21.0	10.5	21		10/15/23 01:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW11 **Lab ID: 92692277022** Collected: 10/12/23 11:35 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**162**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:07	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:07	7440-41-7	
Boron	**1190**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:07	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:07	7440-43-9	
Calcium	**98200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 15:07	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:07	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:07	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:21	7440-36-0	
Arsenic	**9.1**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:21	7440-38-2	
Cobalt	**6.6**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:21	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:21	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:21	7439-93-2	
Molybdenum	**1.4**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:21	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**449**	mg/L	25.0	25.0	1		10/18/23 15:00		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**8.9**	mg/L	1.0	0.60	1		10/14/23 17:43	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		10/14/23 17:43	16984-48-8	
Sulfate	**45.5**	mg/L	1.0	0.50	1		10/14/23 17:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW5 **Lab ID: 92692277023** Collected: 10/12/23 13:05 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**14.4**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:10	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:10	7440-41-7	
Boron	**1620**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:10	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:10	7440-43-9	
Calcium	**97800**	ug/L	1000	942	10	10/16/23 12:05	10/19/23 15:01	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:10	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:10	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:41	7440-36-0	
Arsenic	**0.89J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:41	7440-38-2	
Cobalt	**27.7**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:41	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:41	7439-92-1	
Lithium	**48.0**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:41	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:41	7439-98-7	
Thallium	**0.079J**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**961**	mg/L	25.0	25.0	1		10/18/23 15:00		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		10/14/23 17:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 17:56	16984-48-8	
Sulfate	**528**	mg/L	12.0	6.0	12		10/15/23 01:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW6 **Lab ID: 92692277024** Collected: 10/12/23 13:15 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**28.9**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:13	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:13	7440-41-7	
Boron	**1580**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:13	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:13	7440-43-9	
Calcium	**73900**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 15:13	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:13	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:13	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:46	7440-36-0	
Arsenic	**0.088J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:46	7440-38-2	
Cobalt	**0.49J**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:46	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:46	7439-92-1	
Lithium	**165**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:46	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:46	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**969**	mg/L	25.0	25.0	1		10/18/23 15:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		10/14/23 18:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 18:36	16984-48-8	M1
Sulfate	**485**	mg/L	11.0	5.5	11		10/15/23 01:38	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223FBUAP **Lab ID: 92692277025** Collected: 10/12/23 12:15 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	ND	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:16	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:16	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:16	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:16	7440-43-9	
Calcium	ND	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 15:16	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:16	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:16	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:51	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:51	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:51	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:51	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:51	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:51	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/18/23 15:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		10/14/23 19:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 19:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 19:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223FDUAP2 **Lab ID: 92692277026** Collected: 10/12/23 13:25 Received: 10/13/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**28.6**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 15:19	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 15:19	7440-41-7	
Boron	**1560**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 15:19	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 15:19	7440-43-9	
Calcium	**73200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 15:19	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 15:19	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 15:19	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 08:56	7440-36-0	
Arsenic	**0.091J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 08:56	7440-38-2	
Cobalt	**0.50J**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 08:56	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 08:56	7439-92-1	
Lithium	**163**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 08:56	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 08:56	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 08:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**977**	mg/L	25.0	25.0	1		10/18/23 15:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		10/14/23 19:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 19:57	16984-48-8	
Sulfate	**477**	mg/L	11.0	5.5	11		10/15/23 02:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW16D **Lab ID: 92692277027** Collected: 10/12/23 14:35 Received: 10/14/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**20.7**	ug/L	5.0	3.5	1	10/18/23 11:35	10/19/23 17:17	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:17	7440-41-7	
Boron	**280**	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:17	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:17	7440-43-9	
Calcium	**35500**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:17	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:17	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:17	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/17/23 12:30	10/18/23 20:21	7440-36-0	
Arsenic	**0.11J**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 20:21	7440-38-2	
Cobalt	**0.44J**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 20:21	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 20:21	7439-92-1	
Lithium	**17.3**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 20:21	7439-93-2	
Molybdenum	**0.29J**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 20:21	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 20:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**314**	mg/L	25.0	25.0	1		10/18/23 15:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**38.5**	mg/L	1.0	0.60	1		10/16/23 17:51	16887-00-6	
Fluoride	**0.099J**	mg/L	0.10	0.050	1		10/16/23 17:51	16984-48-8	
Sulfate	**95.4**	mg/L	2.0	1.0	2		10/16/23 21:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Sample: 101223NMW6D **Lab ID: 92692277028** Collected: 10/12/23 15:35 Received: 10/14/23 11:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**21.6**	ug/L	5.0	3.5	1	10/18/23 11:35	10/19/23 17:20	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:20	7440-41-7	
Boron	**2020**	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:20	7440-42-8	
Cadmium	**0.55J**	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:20	7440-43-9	
Calcium	**71800**	ug/L	500	471	5	10/18/23 11:35	10/20/23 14:35	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:20	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:20	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/17/23 12:30	10/18/23 20:57	7440-36-0	
Arsenic	**0.51J**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 20:57	7440-38-2	
Cobalt	**142**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 20:57	7440-48-4	
Lead	**0.63J**	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 20:57	7439-92-1	
Lithium	**199**	ug/L	5.0	1.0	2	10/17/23 12:30	10/19/23 20:06	7439-93-2	
Molybdenum	**1.5**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 20:57	7439-98-7	
Thallium	**0.20**	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 20:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 12:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1190**	mg/L	25.0	25.0	1		10/18/23 15:03		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.8**	mg/L	1.0	0.60	1		10/16/23 18:35	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		10/16/23 18:35	16984-48-8	
Sulfate	**659**	mg/L	14.0	7.0	14		10/16/23 21:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806808
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277019, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026, 92692277027, 92692277028

METHOD BLANK: 4177925 Matrix: Water
Associated Lab Samples: 92692277019, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026, 92692277027, 92692277028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/18/23 11:48	

LABORATORY CONTROL SAMPLE: 4177926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4177927 4177928

Parameter	Units	92692277019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.7	2.9	106	115	75-125	8	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806813
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277001, 92692277002, 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014, 92692277015, 92692277016, 92692277017, 92692277018, 92692277020

METHOD BLANK: 4177931 Matrix: Water
Associated Lab Samples: 92692277001, 92692277002, 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014, 92692277015, 92692277016, 92692277017, 92692277018, 92692277020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/18/23 09:47	

LABORATORY CONTROL SAMPLE: 4177932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4177933 4177934

Parameter	Units	92692277008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.5	2.4	99	96	75-125	3	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 805805
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277001, 92692277002

METHOD BLANK: 4172734 Matrix: Water
Associated Lab Samples: 92692277001, 92692277002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/12/23 23:17	
Beryllium	ug/L	ND	1.0	0.70	10/12/23 23:17	
Boron	ug/L	ND	50.0	32.4	10/12/23 23:17	
Cadmium	ug/L	ND	1.0	0.40	10/12/23 23:17	
Calcium	ug/L	ND	100	94.2	10/12/23 23:17	
Chromium	ug/L	ND	5.0	3.7	10/12/23 23:17	
Selenium	ug/L	ND	10.0	4.7	10/12/23 23:17	

LABORATORY CONTROL SAMPLE: 4172735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	479	96	80-120	
Beryllium	ug/L	500	462	92	80-120	
Boron	ug/L	500	466	93	80-120	
Cadmium	ug/L	500	485	97	80-120	
Calcium	ug/L	5000	4870	97	80-120	
Chromium	ug/L	500	473	95	80-120	
Selenium	ug/L	500	452	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4172736 4172737

Parameter	Units	92692277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	13.4	500	500	478	480	93	93	75-125	0	20	
Beryllium	ug/L	ND	500	500	464	465	93	93	75-125	0	20	
Boron	ug/L	ND	500	500	480	548	96	110	75-125	13	20	
Cadmium	ug/L	ND	500	500	475	479	95	96	75-125	1	20	
Calcium	ug/L	2710	5000	5000	7480	7520	95	96	75-125	1	20	
Chromium	ug/L	ND	500	500	462	464	92	93	75-125	0	20	
Selenium	ug/L	ND	500	500	479	483	96	97	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806534
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

METHOD BLANK: 4176296 Matrix: Water
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/18/23 12:42	
Beryllium	ug/L	ND	1.0	0.70	10/18/23 12:42	
Boron	ug/L	ND	50.0	32.4	10/18/23 12:42	
Cadmium	ug/L	ND	1.0	0.40	10/18/23 12:42	
Calcium	ug/L	ND	100	94.2	10/18/23 12:42	
Chromium	ug/L	ND	5.0	3.7	10/18/23 12:42	
Selenium	ug/L	ND	10.0	4.7	10/18/23 12:42	

LABORATORY CONTROL SAMPLE: 4176297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	503	101	80-120	
Beryllium	ug/L	500	503	101	80-120	
Boron	ug/L	500	508	102	80-120	
Cadmium	ug/L	500	506	101	80-120	
Calcium	ug/L	5000	5100	102	80-120	
Chromium	ug/L	500	501	100	80-120	
Selenium	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176298 4176299

Parameter	Units	92692277008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	140	500	500	560	571	84	86	75-125	2	20	
Beryllium	ug/L	ND	500	500	453	463	91	93	75-125	2	20	
Boron	ug/L	3490	500	500	3520	3570	5	14	75-125	1	20	M1
Cadmium	ug/L	ND	500	500	439	447	88	89	75-125	2	20	
Calcium	ug/L	147000	5000	5000	154000	161000	145	284	75-125	4	20	M1
Chromium	ug/L	ND	500	500	437	446	87	89	75-125	2	20	
Selenium	ug/L	ND	500	500	475	483	95	97	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806536
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026

METHOD BLANK: 4176306 Matrix: Water
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/18/23 14:23	
Beryllium	ug/L	ND	1.0	0.70	10/18/23 14:23	
Boron	ug/L	ND	50.0	32.4	10/18/23 14:23	
Cadmium	ug/L	ND	1.0	0.40	10/18/23 14:23	
Calcium	ug/L	ND	100	94.2	10/18/23 14:23	
Chromium	ug/L	ND	5.0	3.7	10/18/23 14:23	
Selenium	ug/L	ND	10.0	4.7	10/18/23 14:23	

LABORATORY CONTROL SAMPLE: 4176307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	512	102	80-120	
Beryllium	ug/L	500	509	102	80-120	
Boron	ug/L	500	515	103	80-120	
Cadmium	ug/L	500	513	103	80-120	
Calcium	ug/L	5000	5180	104	80-120	
Chromium	ug/L	500	510	102	80-120	
Selenium	ug/L	500	502	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176308 4176309

Parameter	Units	92692277019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	9.4	500	500	530	518	104	102	75-125	2	20	
Beryllium	ug/L	ND	500	500	529	519	106	104	75-125	2	20	
Boron	ug/L	ND	500	500	560	549	106	104	75-125	2	20	
Cadmium	ug/L	ND	500	500	523	515	105	103	75-125	2	20	
Calcium	ug/L	3080	5000	5000	8400	8170	106	102	75-125	3	20	
Chromium	ug/L	ND	500	500	521	512	104	102	75-125	2	20	
Selenium	ug/L	ND	500	500	540	531	108	106	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 807195
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277027, 92692277028

METHOD BLANK: 4179659 Matrix: Water
Associated Lab Samples: 92692277027, 92692277028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/19/23 17:00	
Beryllium	ug/L	ND	1.0	0.70	10/19/23 17:00	
Boron	ug/L	ND	50.0	32.4	10/19/23 17:00	
Cadmium	ug/L	ND	1.0	0.40	10/19/23 17:00	
Calcium	ug/L	ND	100	94.2	10/19/23 17:00	
Chromium	ug/L	ND	5.0	3.7	10/19/23 17:00	
Selenium	ug/L	ND	10.0	4.7	10/19/23 17:00	

LABORATORY CONTROL SAMPLE: 4179660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	492	98	80-120	
Beryllium	ug/L	500	497	99	80-120	
Boron	ug/L	500	501	100	80-120	
Cadmium	ug/L	500	497	99	80-120	
Calcium	ug/L	5000	5040	101	80-120	
Chromium	ug/L	500	490	98	80-120	
Selenium	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4179661 4179662

Parameter	Units	92692173021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	553	500	500	1070	1080	104	106	75-125	1	20	
Beryllium	ug/L	1.7	500	500	468	472	93	94	75-125	1	20	
Boron	ug/L	ND	500	500	461	468	91	92	75-125	1	20	
Cadmium	ug/L	ND	500	500	460	464	92	93	75-125	1	20	
Calcium	ug/L	6770	5000	5000	11300	11400	90	92	75-125	1	20	
Chromium	ug/L	15.4	500	500	471	476	91	92	75-125	1	20	
Selenium	ug/L	ND	500	500	427	431	85	86	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 827138
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92692277002

METHOD BLANK: 4276776 Matrix: Water
Associated Lab Samples: 92692277002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	0.79	01/23/24 21:41	
Beryllium	ug/L	ND	1.0	0.16	01/23/24 21:41	
Boron	ug/L	ND	50.0	4.0	01/23/24 21:41	
Cadmium	ug/L	ND	1.0	0.29	01/23/24 21:41	
Chromium	ug/L	ND	5.0	0.63	01/23/24 21:41	
Selenium	ug/L	ND	10.0	4.1	01/23/24 21:41	

LABORATORY CONTROL SAMPLE: 4276777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	466	93	80-120	
Beryllium	ug/L	500	461	92	80-120	
Boron	ug/L	500	460	92	80-120	
Cadmium	ug/L	500	477	95	80-120	
Chromium	ug/L	500	470	94	80-120	
Selenium	ug/L	500	454	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4276778 4276779

Parameter	Units	92709263001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	287	500	500	761	767	95	96	75-125	1	20	
Beryllium	ug/L	2.8	500	500	492	492	98	98	75-125	0	20	
Boron	ug/L	42.1J	500	500	531	529	98	97	75-125	0	20	
Cadmium	ug/L	0.39J	500	500	491	488	98	98	75-125	1	20	
Chromium	ug/L	ND	500	500	490	488	98	98	75-125	0	20	
Selenium	ug/L	ND	500	500	497	499	99	100	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 805308
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92692277001

METHOD BLANK: 4170231 Matrix: Water
Associated Lab Samples: 92692277001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/10/23 23:19	
Arsenic	ug/L	ND	1.0	0.087	10/10/23 23:19	
Cobalt	ug/L	ND	1.0	0.050	10/10/23 23:19	
Lead	ug/L	ND	1.0	0.077	10/10/23 23:19	
Lithium	ug/L	ND	2.5	0.50	10/10/23 23:19	
Molybdenum	ug/L	ND	1.0	0.13	10/10/23 23:19	
Thallium	ug/L	ND	0.20	0.050	10/10/23 23:19	

LABORATORY CONTROL SAMPLE: 4170232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	51.2	102	80-120	
Arsenic	ug/L	50	47.2	94	80-120	
Cobalt	ug/L	50	50.9	102	80-120	
Lead	ug/L	50	50.2	100	80-120	
Lithium	ug/L	50	53.0	106	80-120	
Molybdenum	ug/L	50	51.1	102	80-120	
Thallium	ug/L	25	24.6	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4170233 4170234

Parameter	Units	92692277001 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	50.9	51.9	102	104	75-125	2	20	
Arsenic	ug/L	0.13J	50	50	46.8	47.0	93	94	75-125	1	20	
Cobalt	ug/L	0.35J	50	50	50.7	51.8	101	103	75-125	2	20	
Lead	ug/L	0.16J	50	50	49.5	50.2	99	100	75-125	1	20	
Lithium	ug/L	1.4J	50	50	50.9	51.1	99	99	75-125	0	20	
Molybdenum	ug/L	0.21J	50	50	50.4	50.4	100	100	75-125	0	20	
Thallium	ug/L	ND	25	25	24.1	24.6	96	98	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806539
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

METHOD BLANK: 4176319 Matrix: Water
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/17/23 07:00	
Arsenic	ug/L	ND	1.0	0.087	10/17/23 07:00	
Cobalt	ug/L	ND	1.0	0.050	10/17/23 07:00	
Lead	ug/L	ND	1.0	0.077	10/17/23 07:00	
Lithium	ug/L	ND	2.5	0.50	10/17/23 07:00	
Molybdenum	ug/L	ND	1.0	0.13	10/17/23 07:00	
Thallium	ug/L	ND	0.20	0.050	10/17/23 07:00	

LABORATORY CONTROL SAMPLE: 4176320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.8	98	80-120	
Arsenic	ug/L	50	55.0	110	80-120	
Cobalt	ug/L	50	55.0	110	80-120	
Lead	ug/L	50	53.8	108	80-120	
Lithium	ug/L	50	57.3	115	80-120	
Molybdenum	ug/L	50	49.2	98	80-120	
Thallium	ug/L	25	27.0	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176321 4176322

Parameter	Units	92692277008 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	50.9	51.1	102	102	75-125	0	20	
Arsenic	ug/L	0.92J	50	50	55.0	55.0	108	108	75-125	0	20	
Cobalt	ug/L	6.5	50	50	61.4	61.3	110	110	75-125	0	20	
Lead	ug/L	ND	50	50	53.1	53.7	106	107	75-125	1	20	
Lithium	ug/L	0.52J	50	50	53.1	54.1	105	107	75-125	2	20	
Molybdenum	ug/L	0.36J	50	50	51.8	51.4	103	102	75-125	1	20	
Thallium	ug/L	ND	25	25	27.2	27.6	109	110	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806541
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026

METHOD BLANK: 4176327 Matrix: Water
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/18/23 06:46	
Arsenic	ug/L	ND	1.0	0.087	10/18/23 06:46	
Cobalt	ug/L	ND	1.0	0.050	10/18/23 06:46	
Lead	ug/L	ND	1.0	0.077	10/18/23 06:46	
Lithium	ug/L	ND	2.5	0.50	10/18/23 06:46	
Molybdenum	ug/L	ND	1.0	0.13	10/18/23 06:46	
Thallium	ug/L	ND	0.20	0.050	10/18/23 06:46	

LABORATORY CONTROL SAMPLE: 4176328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.5	99	80-120	
Arsenic	ug/L	50	52.0	104	80-120	
Cobalt	ug/L	50	56.0	112	80-120	
Lead	ug/L	50	52.0	104	80-120	
Lithium	ug/L	50	54.0	108	80-120	
Molybdenum	ug/L	50	48.5	97	80-120	
Thallium	ug/L	25	26.8	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176329 4176330

Parameter	Units	92692277019 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	50.2	49.9	100	100	75-125	1	20	
Arsenic	ug/L	0.25J	50	50	53.6	53.5	107	106	75-125	0	20	
Cobalt	ug/L	0.20J	50	50	56.0	55.8	112	111	75-125	0	20	
Lead	ug/L	0.088J	50	50	52.3	52.1	104	104	75-125	0	20	
Lithium	ug/L	7.2	50	50	59.1	58.2	104	102	75-125	1	20	
Molybdenum	ug/L	0.13J	50	50	49.3	49.8	98	99	75-125	1	20	
Thallium	ug/L	ND	25	25	26.6	26.5	106	106	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806860
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277027, 92692277028

METHOD BLANK: 4178034 Matrix: Water
Associated Lab Samples: 92692277027, 92692277028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/18/23 20:11	
Arsenic	ug/L	ND	1.0	0.087	10/18/23 20:11	
Cobalt	ug/L	ND	1.0	0.050	10/18/23 20:11	
Lead	ug/L	ND	1.0	0.077	10/18/23 20:11	
Lithium	ug/L	ND	2.5	0.50	10/18/23 20:11	
Molybdenum	ug/L	ND	1.0	0.13	10/18/23 20:11	
Thallium	ug/L	ND	0.20	0.050	10/18/23 20:11	

LABORATORY CONTROL SAMPLE: 4178035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.0	100	80-120	
Arsenic	ug/L	50	53.0	106	80-120	
Cobalt	ug/L	50	55.0	110	80-120	
Lead	ug/L	50	52.8	106	80-120	
Lithium	ug/L	50	55.0	110	80-120	
Molybdenum	ug/L	50	49.0	98	80-120	
Thallium	ug/L	25	27.0	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4178036 4178037

Parameter	Units	92692277027 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	49.6	48.8	99	98	75-125	2	20	
Arsenic	ug/L	0.11J	50	50	53.3	53.1	106	106	75-125	0	20	
Cobalt	ug/L	0.44J	50	50	54.3	54.7	108	109	75-125	1	20	
Lead	ug/L	ND	50	50	52.9	52.8	106	105	75-125	0	20	
Lithium	ug/L	17.3	50	50	72.8	72.1	111	109	75-125	1	20	
Molybdenum	ug/L	0.29J	50	50	49.6	49.5	99	98	75-125	0	20	
Thallium	ug/L	ND	25	25	26.9	26.9	108	107	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 827140
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277002

METHOD BLANK: 4276785 Matrix: Water
Associated Lab Samples: 92692277002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	01/23/24 21:55	
Arsenic	ug/L	ND	1.0	0.087	01/23/24 21:55	
Cobalt	ug/L	ND	1.0	0.050	01/23/24 21:55	
Lead	ug/L	ND	1.0	0.077	01/23/24 21:55	
Lithium	ug/L	ND	2.5	0.50	01/23/24 21:55	
Molybdenum	ug/L	0.23J	1.0	0.13	01/23/24 21:55	
Thallium	ug/L	ND	0.20	0.050	01/23/24 21:55	

LABORATORY CONTROL SAMPLE: 4276786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.7	99	80-120	
Arsenic	ug/L	50	48.7	97	80-120	
Cobalt	ug/L	50	49.5	99	80-120	
Lead	ug/L	50	48.0	96	80-120	
Lithium	ug/L	50	47.4	95	80-120	
Molybdenum	ug/L	50	49.4	99	80-120	
Thallium	ug/L	25	23.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4276787 4276788

Parameter	Units	92709263001 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	49.4	49.7	99	99	75-125	1	20	
Arsenic	ug/L	ND	50	50	48.9	48.9	98	98	75-125	0	20	
Cobalt	ug/L	5.7	50	50	54.5	54.0	97	96	75-125	1	20	
Lead	ug/L	0.70J	50	50	49.5	49.4	98	97	75-125	0	20	
Lithium	ug/L	10.6	50	50	56.5	56.4	92	92	75-125	0	20	
Molybdenum	ug/L	ND	50	50	50.5	50.1	101	100	75-125	1	20	
Thallium	ug/L	0.11J	25	25	24.5	24.5	98	97	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806055
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277003, 92692277004, 92692277005

METHOD BLANK: 4174305 Matrix: Water
Associated Lab Samples: 92692277003, 92692277004, 92692277005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/12/23 23:56	

LABORATORY CONTROL SAMPLE: 4174306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	252	101	90-110	

SAMPLE DUPLICATE: 4174307

Parameter	Units	92692726001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	257	263	2	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806680
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277006, 92692277007, 92692277008, 92692277009

METHOD BLANK: 4177124 Matrix: Water
Associated Lab Samples: 92692277006, 92692277007, 92692277008, 92692277009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/16/23 18:31	

LABORATORY CONTROL SAMPLE: 4177125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4177126

Parameter	Units	92692838018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	440	444	1	25	

SAMPLE DUPLICATE: 4177144

Parameter	Units	92692277008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	917	962	5	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806682
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277010, 92692277011, 92692277012, 92692277013, 92692277014, 92692277015, 92692277016, 92692277017, 92692277018

METHOD BLANK: 4177130 Matrix: Water
Associated Lab Samples: 92692277010, 92692277011, 92692277012, 92692277013, 92692277014, 92692277015, 92692277016, 92692277017, 92692277018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/16/23 18:50	

LABORATORY CONTROL SAMPLE: 4177131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4177132

Parameter	Units	92692277010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	619	594	4	25	

SAMPLE DUPLICATE: 4177133

Parameter	Units	92692277017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	254	255	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806887
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277019, 92692277020

METHOD BLANK: 4178151 Matrix: Water
Associated Lab Samples: 92692277019, 92692277020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/17/23 18:22	

LABORATORY CONTROL SAMPLE: 4178152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 4178153

Parameter	Units	92693079005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2910	2870	1	25	1g

SAMPLE DUPLICATE: 4179191

Parameter	Units	92692277019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	82.0	82.0	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 807185
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026, 92692277027, 92692277028

METHOD BLANK: 4179631 Matrix: Water
Associated Lab Samples: 92692277021, 92692277022, 92692277023, 92692277024, 92692277025, 92692277026, 92692277027, 92692277028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/18/23 15:00	

LABORATORY CONTROL SAMPLE: 4179632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	266	106	90-110	

SAMPLE DUPLICATE: 4179633

Parameter	Units	92692277021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1920	1910	1	25	

SAMPLE DUPLICATE: 4179634

Parameter	Units	92693749002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	82.0	75.0	9	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806075
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277001, 92692277002

METHOD BLANK: 4174352 Matrix: Water
Associated Lab Samples: 92692277001, 92692277002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/13/23 23:21	
Fluoride	mg/L	ND	0.10	0.050	10/13/23 23:21	
Sulfate	mg/L	ND	1.0	0.50	10/13/23 23:21	

LABORATORY CONTROL SAMPLE: 4174353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174354 4174355

Parameter	Units	92692399009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.5	50	50	67.5	68.0	100	101	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	98	90-110	1	10	
Sulfate	mg/L	1.5	50	50	51.9	52.4	101	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174356 4174357

Parameter	Units	92692870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	50	50	52.7	53.2	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	101	90-110	1	10	
Sulfate	mg/L	1.6	50	50	52.3	52.7	101	102	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806081
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

METHOD BLANK: 4174375 Matrix: Water
Associated Lab Samples: 92692277003, 92692277004, 92692277005, 92692277006, 92692277007, 92692277008, 92692277009, 92692277010, 92692277011, 92692277012, 92692277013, 92692277014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/14/23 00:04	
Fluoride	mg/L	ND	0.10	0.050	10/14/23 00:04	
Sulfate	mg/L	ND	1.0	0.50	10/14/23 00:04	

LABORATORY CONTROL SAMPLE: 4174376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.6	105	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174377 4174378

Parameter	Units	92692870011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.2	50	50	53.4	53.5	102	103	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	103	90-110	0	10	
Sulfate	mg/L	1.4	50	50	52.4	52.5	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174379 4174380

Parameter	Units	92692277008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	152	50	50	197	197	89	89	90-110	0	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.6	97	98	90-110	0	10	
Sulfate	mg/L	162	50	50	207	207	90	90	90-110	0	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806350
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023

METHOD BLANK: 4175817 Matrix: Water
Associated Lab Samples: 92692277015, 92692277016, 92692277017, 92692277018, 92692277019, 92692277020, 92692277021, 92692277022, 92692277023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/14/23 11:27	
Fluoride	mg/L	ND	0.10	0.050	10/14/23 11:27	
Sulfate	mg/L	ND	1.0	0.50	10/14/23 11:27	

LABORATORY CONTROL SAMPLE: 4175818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175819 4175820

Parameter	Units	92692693002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.9	50	50	61.4	59.9	93	90	90-110	2	10	
Fluoride	mg/L	0.19	2.5	2.5	2.5	2.5	93	91	90-110	2	10	
Sulfate	mg/L	ND	50	50	45.9	44.5	91	89	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175821 4175822

Parameter	Units	92692277019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	50	50	48.1	47.7	94	93	90-110	1	10	
Fluoride	mg/L	0.071J	2.5	2.5	2.4	2.4	92	91	90-110	1	10	
Sulfate	mg/L	8.1	50	50	55.7	55.6	95	95	90-110	0	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806351
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277024, 92692277025, 92692277026

METHOD BLANK: 4175823 Matrix: Water
Associated Lab Samples: 92692277024, 92692277025, 92692277026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/14/23 18:10	
Fluoride	mg/L	ND	0.10	0.050	10/14/23 18:10	
Sulfate	mg/L	ND	1.0	0.50	10/14/23 18:10	

LABORATORY CONTROL SAMPLE: 4175824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	53.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175825 4175826

Parameter	Units	92692277024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.0	50	50	51.2	52.2	92	94	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	89	91	90-110	2	10	M1
Sulfate	mg/L	485	50	50	521	522	72	74	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175827 4175828

Parameter	Units	92693216008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.9	50	50	48.7	49.2	93	94	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.4	2.4	91	92	90-110	1	10	
Sulfate	mg/L	7.5	50	50	53.9	54.4	93	94	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

QC Batch: 806666
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692277027, 92692277028

METHOD BLANK: 4177061 Matrix: Water
Associated Lab Samples: 92692277027, 92692277028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/16/23 16:37	
Fluoride	mg/L	ND	0.10	0.050	10/16/23 16:37	
Sulfate	mg/L	ND	1.0	0.50	10/16/23 16:37	

LABORATORY CONTROL SAMPLE: 4177062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	53.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4177063 4177064

Parameter	Units	92692277027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	38.5	50	50	87.7	88.5	98	100	90-110	1	10	
Fluoride	mg/L	0.099J	2.5	2.5	2.5	2.5	96	98	90-110	1	10	
Sulfate	mg/L	95.4	50	50	140	141	90	92	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	Constant weight could not be achieved for this sample after 4 drying cycles. The final weight change was 0.0155 g.
2g	Constant weight could not be achieved for this sample after four drying cycles. The final weight change was 0.0061g.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692277001	**100923NB31**	EPA 3010A	805805	EPA 6010D	805970
92692277002	**101023NB32**	EPA 3010A	805805	EPA 6010D	805970
92692277002	**101023NB32**	EPA 3010A	827138	EPA 6010D	827284
92692277003	**101023NMW2**	EPA 3010A	806534	EPA 6010D	806639
92692277004	**101023NMW3**	EPA 3010A	806534	EPA 6010D	806639
92692277005	**101023NMW3D**	EPA 3010A	806534	EPA 6010D	806639
92692277006	**101123NMW30U**	EPA 3010A	806534	EPA 6010D	806639
92692277007	**101123NMW16**	EPA 3010A	806534	EPA 6010D	806639
92692277008	**101123NMW1**	EPA 3010A	806534	EPA 6010D	806639
92692277009	**101123NMW15**	EPA 3010A	806534	EPA 6010D	806639
92692277010	**101123FDUAP1**	EPA 3010A	806534	EPA 6010D	806639
92692277011	**101123NMW1D**	EPA 3010A	806534	EPA 6010D	806639
92692277012	**101123NMW35D**	EPA 3010A	806534	EPA 6010D	806639
92692277013	**101123NMW17S**	EPA 3010A	806534	EPA 6010D	806639
92692277014	**101123NMW4**	EPA 3010A	806534	EPA 6010D	806639
92692277015	**101123NMW7**	EPA 3010A	806536	EPA 6010D	806642
92692277016	**101123NMW8R**	EPA 3010A	806536	EPA 6010D	806642
92692277017	**101123NMW9R**	EPA 3010A	806536	EPA 6010D	806642
92692277018	**101123NMW10**	EPA 3010A	806536	EPA 6010D	806642
92692277019	**101223NMW14**	EPA 3010A	806536	EPA 6010D	806642
92692277020	**101223NMW12**	EPA 3010A	806536	EPA 6010D	806642
92692277021	**101223NMW13**	EPA 3010A	806536	EPA 6010D	806642
92692277022	**101223NMW11**	EPA 3010A	806536	EPA 6010D	806642
92692277023	**101223NMW5**	EPA 3010A	806536	EPA 6010D	806642
92692277024	**101223NMW6**	EPA 3010A	806536	EPA 6010D	806642
92692277025	**101223FBUAP**	EPA 3010A	806536	EPA 6010D	806642
92692277026	**101223FDUAP2**	EPA 3010A	806536	EPA 6010D	806642
92692277027	**101223NMW16D**	EPA 3010A	807195	EPA 6010D	807314
92692277028	**101223NMW6D**	EPA 3010A	807195	EPA 6010D	807314
92692277001	**100923NB31**	EPA 3010A	805308	EPA 6020B	805408
92692277002	**101023NB32**	EPA 3010A	827140	EPA 6020B	827337
92692277003	**101023NMW2**	EPA 3010A	806539	EPA 6020B	806644
92692277004	**101023NMW3**	EPA 3010A	806539	EPA 6020B	806644
92692277005	**101023NMW3D**	EPA 3010A	806539	EPA 6020B	806644
92692277006	**101123NMW30U**	EPA 3010A	806539	EPA 6020B	806644
92692277007	**101123NMW16**	EPA 3010A	806539	EPA 6020B	806644
92692277008	**101123NMW1**	EPA 3010A	806539	EPA 6020B	806644
92692277009	**101123NMW15**	EPA 3010A	806539	EPA 6020B	806644
92692277010	**101123FDUAP1**	EPA 3010A	806539	EPA 6020B	806644
92692277011	**101123NMW1D**	EPA 3010A	806539	EPA 6020B	806644
92692277012	**101123NMW35D**	EPA 3010A	806539	EPA 6020B	806644
92692277013	**101123NMW17S**	EPA 3010A	806539	EPA 6020B	806644
92692277014	**101123NMW4**	EPA 3010A	806539	EPA 6020B	806644
92692277015	**101123NMW7**	EPA 3010A	806541	EPA 6020B	806650
92692277016	**101123NMW8R**	EPA 3010A	806541	EPA 6020B	806650

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692277017	**101123NMW9R**	EPA 3010A	806541	EPA 6020B	806650
92692277018	**101123NMW10**	EPA 3010A	806541	EPA 6020B	806650
92692277019	**101223NMW14**	EPA 3010A	806541	EPA 6020B	806650
92692277020	**101223NMW12**	EPA 3010A	806541	EPA 6020B	806650
92692277021	**101223NMW13**	EPA 3010A	806541	EPA 6020B	806650
92692277022	**101223NMW11**	EPA 3010A	806541	EPA 6020B	806650
92692277023	**101223NMW5**	EPA 3010A	806541	EPA 6020B	806650
92692277024	**101223NMW6**	EPA 3010A	806541	EPA 6020B	806650
92692277025	**101223FBUAP**	EPA 3010A	806541	EPA 6020B	806650
92692277026	**101223FDUAP2**	EPA 3010A	806541	EPA 6020B	806650
92692277027	**101223NMW16D**	EPA 3010A	806860	EPA 6020B	806961
92692277028	**101223NMW6D**	EPA 3010A	806860	EPA 6020B	806961
92692277001	**100923NB31**	EPA 7470A	806813	EPA 7470A	806952
92692277002	**101023NB32**	EPA 7470A	806813	EPA 7470A	806952
92692277003	**101023NMW2**	EPA 7470A	806813	EPA 7470A	806952
92692277004	**101023NMW3**	EPA 7470A	806813	EPA 7470A	806952
92692277005	**101023NMW3D**	EPA 7470A	806813	EPA 7470A	806952
92692277006	**101123NMW30U**	EPA 7470A	806813	EPA 7470A	806952
92692277007	**101123NMW16**	EPA 7470A	806813	EPA 7470A	806952
92692277008	**101123NMW1**	EPA 7470A	806813	EPA 7470A	806952
92692277009	**101123NMW15**	EPA 7470A	806813	EPA 7470A	806952
92692277010	**101123FDUAP1**	EPA 7470A	806813	EPA 7470A	806952
92692277011	**101123NMW1D**	EPA 7470A	806813	EPA 7470A	806952
92692277012	**101123NMW35D**	EPA 7470A	806813	EPA 7470A	806952
92692277013	**101123NMW17S**	EPA 7470A	806813	EPA 7470A	806952
92692277014	**101123NMW4**	EPA 7470A	806813	EPA 7470A	806952
92692277015	**101123NMW7**	EPA 7470A	806813	EPA 7470A	806952
92692277016	**101123NMW8R**	EPA 7470A	806813	EPA 7470A	806952
92692277017	**101123NMW9R**	EPA 7470A	806813	EPA 7470A	806952
92692277018	**101123NMW10**	EPA 7470A	806813	EPA 7470A	806952
92692277019	**101223NMW14**	EPA 7470A	806808	EPA 7470A	806950
92692277020	**101223NMW12**	EPA 7470A	806813	EPA 7470A	806952
92692277021	**101223NMW13**	EPA 7470A	806808	EPA 7470A	806950
92692277022	**101223NMW11**	EPA 7470A	806808	EPA 7470A	806950
92692277023	**101223NMW5**	EPA 7470A	806808	EPA 7470A	806950
92692277024	**101223NMW6**	EPA 7470A	806808	EPA 7470A	806950
92692277025	**101223FBUAP**	EPA 7470A	806808	EPA 7470A	806950
92692277026	**101223FDUAP2**	EPA 7470A	806808	EPA 7470A	806950
92692277027	**101223NMW16D**	EPA 7470A	806808	EPA 7470A	806950
92692277028	**101223NMW6D**	EPA 7470A	806808	EPA 7470A	806950
92692277003	**101023NMW2**	SM 2540C-2015	806055		
92692277004	**101023NMW3**	SM 2540C-2015	806055		
92692277005	**101023NMW3D**	SM 2540C-2015	806055		
92692277006	**101123NMW30U**	SM 2540C-2015	806680		
92692277007	**101123NMW16**	SM 2540C-2015	806680		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692277008	**101123NMW1**	SM 2540C-2015	806680		
92692277009	**101123NMW15**	SM 2540C-2015	806680		
92692277010	**101123FDUAP1**	SM 2540C-2015	806682		
92692277011	**101123NMW1D**	SM 2540C-2015	806682		
92692277012	**101123NMW35D**	SM 2540C-2015	806682		
92692277013	**101123NMW17S**	SM 2540C-2015	806682		
92692277014	**101123NMW4**	SM 2540C-2015	806682		
92692277015	**101123NMW7**	SM 2540C-2015	806682		
92692277016	**101123NMW8R**	SM 2540C-2015	806682		
92692277017	**101123NMW9R**	SM 2540C-2015	806682		
92692277018	**101123NMW10**	SM 2540C-2015	806682		
92692277019	**101223NMW14**	SM 2540C-2015	806887		
92692277020	**101223NMW12**	SM 2540C-2015	806887		
92692277021	**101223NMW13**	SM 2540C-2015	807185		
92692277022	**101223NMW11**	SM 2540C-2015	807185		
92692277023	**101223NMW5**	SM 2540C-2015	807185		
92692277024	**101223NMW6**	SM 2540C-2015	807185		
92692277025	**101223FBUAP**	SM 2540C-2015	807185		
92692277026	**101223FDUAP2**	SM 2540C-2015	807185		
92692277027	**101223NMW16D**	SM 2540C-2015	807185		
92692277028	**101223NMW6D**	SM 2540C-2015	807185		
92692277001	**100923NB31**	EPA 9056A	806075		
92692277002	**101023NB32**	EPA 9056A	806075		
92692277003	**101023NMW2**	EPA 9056A	806081		
92692277004	**101023NMW3**	EPA 9056A	806081		
92692277005	**101023NMW3D**	EPA 9056A	806081		
92692277006	**101123NMW30U**	EPA 9056A	806081		
92692277007	**101123NMW16**	EPA 9056A	806081		
92692277008	**101123NMW1**	EPA 9056A	806081		
92692277009	**101123NMW15**	EPA 9056A	806081		
92692277010	**101123FDUAP1**	EPA 9056A	806081		
92692277011	**101123NMW1D**	EPA 9056A	806081		
92692277012	**101123NMW35D**	EPA 9056A	806081		
92692277013	**101123NMW17S**	EPA 9056A	806081		
92692277014	**101123NMW4**	EPA 9056A	806081		
92692277015	**101123NMW7**	EPA 9056A	806350		
92692277016	**101123NMW8R**	EPA 9056A	806350		
92692277017	**101123NMW9R**	EPA 9056A	806350		
92692277018	**101123NMW10**	EPA 9056A	806350		
92692277019	**101223NMW14**	EPA 9056A	806350		
92692277020	**101223NMW12**	EPA 9056A	806350		
92692277021	**101223NMW13**	EPA 9056A	806350		
92692277022	**101223NMW11**	EPA 9056A	806350		
92692277023	**101223NMW5**	EPA 9056A	806350		
92692277024	**101223NMW6**	EPA 9056A	806351		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupB
Pace Project No.: 92692277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692277025	**101223FBUAP**	EPA 9056A	806351		
92692277026	**101223FDUAP2**	EPA 9056A	806351		
92692277027	**101223NMW16D**	EPA 9056A	806666		
92692277028	**101223NMW6D**	EPA 9056A	806666		

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

WO# : 92692277

92692277

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed ac

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pa

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company:	Dominion Energy_VA	Report To:	Crystal Shadle	Attention:		Regulatory Agency
Address:	1100 Boulders Parkway	Copy To:	Catherine Pezzaro	Company Name:		
Suite 503, Richmond, VA 23225			catherine.pezzaro@wsp.com	Address:		
Email:	crystal.shadle@wsp.com	Purchase Order #:		Pace Quote		State / Location
Phone:	(804) 934-1784 Fax	Project Name:	CPS (CPS_2SA2023_LAP_B)	Pace Project Manager:	angela.baioni@pacelabs.com	VA
Requested Due Date:	Standard TAT	Project #:	31406086.007	Pace Profile #:	13861	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	9056-CrVI_SO4	RAD5-9315_9320	Total RD1GR001_07470 Metals	Metal Dissolved_6020-FGW	Residual Chlorine (Y/N)
1	100923NB31	WT	G	10/6/23	1310	-	-		4	X		X								X	X	X	X	N
2		WT	G			-	-																	N
3		WT	G			-	-																	N
4		WT	G			-	-																	N
5		WT	G			-	-																	N
6		WT	G			-	-																	N
7		WT	G			-	-																	N
8		WT	G			-	-																	N
9		WT	G			-	-																	N
10		WT	G			-	-																	N
11		WT	G			-	-																	N
12		WT	G			-	-																	N

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level II Data package	M. Weidenaar / WSP	10/09/23	1458	PACE	10/9/23	1456		X	X	X
All samples preserved on ice	PACE	10/9/23	1600	A.Rucker/PACE/PAC	10-10-23	1035	2.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Torrisi / M. Weidenaar / J. Davis

SIGNATURE of SAMPLER: T. T / J. D

DATE Signed: 10/09/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COC ID: CPS_2SA2023_CCR_GroupB_1_1

Pace

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville [X] Eden [ ] Greenwood [ ] Huntersville [ ] Raleigh [ ] Mechanicsville [ ] Atlanta [ ] Kernersville [ ]

Sample Condition Upon Receipt

Client Name: Dominion Energy VA

Project #:

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Carrier Tracking Number: 7736 7599 1649

Custody Seal Present? [X] Yes [ ] No Seals Intact? [X] Yes [ ] No Date/Initials Person Examining Contents: 10-10-23 AR

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other Biological Tissue Frozen? [ ] Yes [ ] No [X] N/A

Thermometer: [X] IR Gun ID: 937082 Type of Ice: [X] Wet [ ] Blue [ ] None

Cooler Temp (°C): 2.5 Correction Factor: Add / Subtract (°C) 0

Temp should be above freezing to 6°C
[ ] Samples out of temp criteria. Samples on ice, cooling process has begun

Corrected Cooler Temp (°C): 2.5

USDA Regulated Soil ([X] N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? [ ] Yes [X] No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [X] No

				Comments/Discrepancy:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	2.
Short Hold Time Analysis (<72 hr.)?	[ ] Yes	[X] No	[ ] N/A	3.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	4.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	5.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	6.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	7.
Dissolved analysis: Samples Field Filtered?	[ ] Yes	[ ] No	[X] N/A	8.
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	[ ] Yes	[ ] No	[X] N/A	10.
Trip Blank Present?	[ ] Yes	[ ] No	[X] N/A	11.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[X] N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? [ ] Yes [ ] No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1105 Temp: 2.5
Time: 1120 put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
	Effective Date: 06/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, O I and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			1																			1				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://www.pacelabs.com/hubfs/pas-standard-terms.pdf

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	Page: Of
Company: Dominion Energy, Inc.	Report To: Krista Shields	Attention:	
Address: 120 Bowlers Parkway	Copy To: Catherine Hedgin	Company Name:	
Email:	Purchase Order #	Address:	Regulatory Agency
Phone: 804-334-7756 Fax:	Project Name: CPS_2SA2023_CCR_GroupB	Pace Quote:	
Requested Due Date: Standard TAT	Project #: 3140004100	Pace Project Manager:	State / Location: VA
		Pace Profile #: 13801	

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / ,-) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: 6020 Cir SC4	6020 93 & 6020	6020 40CFR257 Appendix IV	TDS Filterable at 105 deg C TDS	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
																		Y/N						
1	101023NB32	WT	G	10/10/23	1155				4	X		X						X	X	X			N	
2		WT	G																				N	
3		WT	G																				N	
4		WT	G																				N	
5		WT	G																				N	
6		WT	G																				N	
7		WT	G																				N	
8		WT	G																				N	
9		WT	G																				N	
10		WT	G																				N	
11		WT	G																				N	
12		WT	G																				N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	J. DAVIS / WSP	10/10/23	1440	[signature] PDEC	10/10/23	1440	
All samples preserved on ice	[signature] PDEC	10/10/23	1600	[signature]	10/11/23	1015	1.9 1.5 2.3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Davis

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/10/23

COC ID: CPS_2SA2023_CCR_GroupB_ Z_1

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy

Project #:

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

Carrier Tracking Number:

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Date/Initials Person Examining Contents:** 10/11/23

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 43202 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.5/2.3/1.9 **Correction Factor: Add / Subtract (°C)** 0

Corrected Cooler Temp (°C): 1.5/2.3/1.9

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5 6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 11:15 Temp:
Time: put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1V	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			1																			1				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page : 1 Of
Company: Dominion Energy, VA	Report To: CrystalShadle	Attention:	
Address: 706 Boulders Parkway	Copy To: Catherine Penzato	Company Name:	
City/State/Zip: Richmond, VA 23225		Address:	Regulatory Agency
Email:	Purchase Order #:	Pace Quote:	
Phone: 804-954-3764 Fax:	Project Name: CPS_CSA2023_CCR_Gr	Pace Project Manager:	State / Location
Requested Due Date: Standard (10	Project #: 3140A0001	Pace Profile #: 13861	VA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	6010 Ca/Fe/Mn/Na	6020 Mo/Se/Tl/Sr	7470 Hg	TDS	Residual Chlorine (Y/N)	
1	101023NMW2	WT	G	10/10/23	1345				5	X		X							X	X	X	X	N	
2	101023NMW3	WT	G	10/10/23	1500				5	X		X							X	X	X	X	N	
3	101023NMW3D	WT	G	10/10/23	1555				5	X		X							X	X	X	X	N	
4	101123NMW30U	WT	G	10/11/23	0915				5	X		X							X	X	X	X	N	
5	101123NMW16	WT	G	10/11/23	0925				5	X		X							X	X	X	X	N	
6	101123NMW1	WT	G	10/11/23	0925				5	X		X							X	X	X	X	N	*MS/MSD collected at MW-1
7	101123NMW15	WT	G	10/11/23	1040				5	X		X							X	X	X	X	N	
8	101123FDUAP1	WT	G	10/11/23	1045				5	X		X							X	X	X	X	N	
9	101123NMW10	WT	G	10/11/23	1120				5	X		X							X	X	X	X	N	
10	101123NMW350	WT	G	10/11/23	1225				5	X		X							X	X	X	X	N	
11	101123NMW17S	WT	G	10/11/23	1220				5	X		X							X	X	X	X	N	
12	101123NMW4	WT	G	10/11/23	1230				5	X		X							X	X	X	X	N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	WSP	10/11/23	1500	PACE	10/11/23	1500	
All samples preserved on ice	PACE	10/11/23	1600		10/12/23	11:00	1.Y 2.Y 1.Y 2.1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Torisi / J. Davis / M. Weideman / Z. Mandshine

SIGNATURE of SAMPLER: DATE Signed: 10/11/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COC ID: CPS_CSA2023_CCR_GroupB_3-1

Pace Analytical®	Document Name: ESI Tech Spec Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-038-Rev.04	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project #:

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

Carrier Tracking Number:

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No Date/Initials Person Examining Contents: 11/12/21

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 613T052 Type of Ice: ☑ Wet ☐ Blue ☐ None

Temp Correction Factor: Add / Subtract 0 °C
Cooler Temp.: °C
Corrected Cooler Temp: °C 1.1/1.4/1.5/2.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.	
Time opened: 11:00	Temp: 1.1/1.4/2.3
Time:	put in cooler
Time:	Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1																			2	1			
2			2			1																			2	1			
3			2			1																			2	1			
4			2			1																			2	1			
5			2			1																			2	1			
6			6			3																			6	1			
7			2			1																			2	1			
8			2			1																			2	1			
9			2			1																			2	1			
10			2			1																			2	1			
11			2			1																			2	1			
12			2			1																			2	1			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : · Of ·

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	
Company: Dominion Energy VA	Report To: Crystal Shade	Attention:	Regulatory Agency
Address: 1106 Boulders Parkway	Copy To: Catherine Pozzi	Company Name:	
Suite 125 Richmond VA 23225		Address:	State / Location: VA
Email:	Purchase Order #	P.O. Number:	
Phone: 804-794-1764 Fax:	Project Name:	Pace Project Manager:	
Requested Due Date: Standard (5-7	Project #: 40484	Pace Profile #: 13861	

ITEM #	SAMPLE ID (One Character per box (A-Z, 0-9 / , -) Sample Ids must be unique)	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: 9056 C (F,Cl,SO4)	RADS 9315 9320	8260 BTEX + MTBE + NAPHTHALENE	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	Pace Project No. / Lab I.D.
1	101123NMW7	G	WT	10/11/23	1445				5	X		X							X	X	X			
2	101123NMW8R	G	WT	10/11/23	1355				5	X		X							X	X	X			
3	101123NMW9R	G	WT	10/11/23	1405				5	X		X							X	X	X			
4	101123NMW10	G	WT	10/11/23	1615				5	X		X							X	X	X			
5	101223NMW14	G	WT	10/12/23	0945				15	X		X							X	X	X			* MS/MSD collected for MW-14
6	101223NMW12	G	WT	10/12/23	1010				5	X		X							X	X	X			
7	101223NMW13	G	WT	10/12/23	1130				5	X		X							X	X	X			
8	101223NMW1	G	WT	10/12/23	1135				5	X		X							X	X	X			
9	101223NMW5	G	WT	10/12/23	1305				5	X		X							X	X	X			
10	101223NMW6	G	WT	10/12/23	1315				5	X		X							X	X	X			
11	101223FBLAP	G	WT	10/12/23	1215				5	X		X							X	X	X			
12	101223FDUAP1	G	WT	10/12/23	1325				5	X		X							X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	M. Wood / WSP	10/12/23	1530	Pace	10/12/23	1530	
All samples preserved on ice		10/12/23	1600		10/13/23	11:45	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Tomisi / Z. Muddiman / J. Davis

SIGNATURE of SAMPLER: DATE Signed: 10/11/23 - 10/12/23

COC ID: CPS_DSA2023_CCR_GroupB_4.1

Pace Analytical

Sample Receiving Non-Conformance Form (NCF)

Date: 10/13/22	Evaluated by: Chris Dean
Client: Donahue	

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

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

	Collection date/time missing or incorrect		Analyses or analytes missing or clarification needed	X	Samples listed on COC do not match samples received (missing, additional, etc.)
	Sample IDs on COC do not match sample labels		Required trip blanks were not received		Required signatures are missing

Comments/Details/Other issues not listed above:

Did not Receive MW6 Received a second MW12 with Same Date/Time as MW5

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples. Not field filtered		Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
	Samples contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project #:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:____

Carrier Tracking Number: _____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Date/Initials Person Examining Contents:** 10/13/23

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 93T082 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): _____ **Correction Factor: Add / Subtract (°C)** 0

Corrected Cooler Temp (°C): 1.3/1.8/2.6/0.8/1.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☐ Yes	☒ No	☐ N/A	9. Non-Conformance
-Includes Date/Time/ID/Analysis Matrix: WT				No MW6 - 2x MW12
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Labeling discrepancy - two sets labelled MW12, no MW6.

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1145 Temp:
Time: put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Client confirmed to label according to collection times on containers.

Person Contacted: Crystal Shadle **Date/Time:** 10/13/23 1400

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax Document ID: 70677

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
****Bottom half of box is to list number of bottles**
*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG8A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1																			1	1			
2			2			1																			2	1			
3			2			1																			3	1			
4			2			1																			2	1			
5			6			3																			6	1			
6			2			1																			2	1			
7			2			1																			2	1			
8			2			1																			2	1			
9			2			1																			2	1			
10			2			1																			2	1			
11			2			1																			2	1			
12			2			1																			2	1			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a Sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://www.pacelabs.com/wp-content/uploads/pas_standard_terms.pdf

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	Page : Of :
Company: Dominion Energy, Va	Report To: Crystal Shadle	Attention:	
Address: 1100 Boulders Parkway	Copy To: Catherine Pozzani	Company Name:	
Suite 503, Richmond, VA 23225		Address:	Regulatory Agency
Email:	Purchase Order #	Pace Quote:	
Phone: (804) 933-1784 Fax:	Project Name: CPS_CCR_GSA2023_QAP_B1	Pace Project Manager:	State / Location
Requested Due Date: Standard TAT	Project #: 3148[illegible]007	Pace Profile #: 13861	VA

| ITEM # | SAMPLE ID
One Character per box
(A-Z, 0-9 / , -)
Sample Ids must be unique | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Requested Analysis Filtered (Y/N) Y/N | Analyses Test: RESIDUE SOA | METALS 6010/6020 | CHLORIDE/SULFATE | TOTAL DISSOLVED SOLIDS | | |

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
(X) Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy VA

Project #:

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

Carrier Tracking Number: 7737 3751 8073

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Date/Initials Person Examining Contents: 10-14-23 AR

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

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID 93782 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 0.6 Correction Factor: Add / Subtract (°C) 0

Corrected Cooler Temp (°C): 0.6

Temp should be above freezing to 6°C
☐ Samples out of temp criteria Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis. Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1145 Temp: 0.6
Time: 1203 put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax Document ID: 70677

Page 1 of 2

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
	Effective Date: 05/12/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
****Bottom half of box is to list number of bottles**
*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1																			2				
2			2			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e Out of hold, incorrect preservative, out of temp, incorrect containers)

ANALYTICAL REPORT

November 29, 2023

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1668230
Samples Received:	10/18/2023
Project Number:	92692277
Description:	CPS_FFCP_2SA23_VSWMRCCR_A
Site:	001
Report To:	Angela Baioni 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Entire Report Reviewed By:

Haley Torrence

Haley Torrence
Project Manager

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



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 8

Sr: Sample Results 9

100923NB31 L1668230-01 9

101023NB32 L1668230-02 10

101023NMW2 L1668230-03 11

101023NMW3 L1668230-04 12

101023NMW3D L1668230-05 13

101123NMW30U L1668230-06 14

101123NMW16 L1668230-07 15

101123NMW1 L1668230-08 16

101123NMW15 L1668230-09 17

101123FDUAP1 L1668230-10 18

101123NMW1D L1668230-11 19

101123NMW35D L1668230-12 20

101123NMW17S L1668230-13 21

101123NMW4 L1668230-14 22

101123NMW7 L1668230-15 23

101123NMW8R L1668230-16 24

101123NMW9R L1668230-17 25

101123NMW10 L1668230-18 26

101223NMW14 L1668230-19 27

101223NMW12 L1668230-20 28

101223NMW13 L1668230-21 29

101223NMW11 L1668230-22 30

101223NMW5 L1668230-23 31

101223NMW6 L1668230-24 32

101223FBUAP L1668230-25 33

101223FDUAP2 L1668230-26 34

101223NMW16D L1668230-27 35

101223NMW6D L1668230-28 36

Qc: Quality Control Summary 37

Radiochemistry by Method 903.0/9315 37

Radiochemistry by Method 904/9320 40

Gl: Glossary of Terms 43

Al: Accreditations & Locations 44

Sc: Sample Chain of Custody 45

100923NB31 L1668230-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/09/23 13:10	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/15/23 00:48	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/15/23 17:04	DDD	Mt. Juliet, TN

101023NB32 L1668230-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/10/23 11:55	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/15/23 00:48	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/15/23 17:04	DDD	Mt. Juliet, TN

101023NMW2 L1668230-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/10/23 13:45	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/21/23 11:56	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/21/23 11:56	DDD	Mt. Juliet, TN

101023NMW3 L1668230-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/10/23 15:00	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/15/23 00:48	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/15/23 17:04	DDD	Mt. Juliet, TN

101023NMW3D L1668230-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/10/23 15:55	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/15/23 01:48	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW30U L1668230-06 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 09:15	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 04:49	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW16 L1668230-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 09:25	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 05:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW1 L1668230-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 09:25	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2165229	1	11/06/23 15:29	11/15/23 01:48	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2165229	1	11/06/23 15:29	11/22/23 21:28	DDD	Mt. Juliet, TN

101123NMW15 L1668230-09 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 10:40	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 05:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123FDUAP1 L1668230-10 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 10:45	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 05:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW1D L1668230-11 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 11:20	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/21/23 11:56	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/21/23 11:56	DDD	Mt. Juliet, TN

101123NMW35D L1668230-12 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 12:25	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 06:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW17S L1668230-13 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 12:20	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 06:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW4 L1668230-14 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 12:30	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 06:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW7 L1668230-15 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 14:45	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 06:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2168338	1	11/09/23 22:55	11/15/23 17:04	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 17:04	DDD	Mt. Juliet, TN

101123NMW8R L1668230-16 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 13:55	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 07:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 21:48	DDD	Mt. Juliet, TN

101123NMW9R L1668230-17 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 14:05	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 07:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 21:48	DDD	Mt. Juliet, TN

101123NMW10 L1668230-18 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/11/23 16:15	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 07:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/15/23 21:48	DDD	Mt. Juliet, TN

101223NMW14 L1668230-19 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 09:45	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2166932	1	11/08/23 13:11	11/15/23 07:50	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166932	1	11/08/23 13:11	11/16/23 21:32	DDD	Mt. Juliet, TN

101223NMW12 L1668230-20 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 10:10	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 03:46	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 03:46	DDD	Mt. Juliet, TN

101223NMW13 L1668230-21 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 11:30	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 03:46	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 03:46	DDD	Mt. Juliet, TN

101223NMW11 L1668230-22 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 11:35	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 03:46	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 03:46	DDD	Mt. Juliet, TN

101223NMW5 L1668230-23 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 13:05	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 04:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 04:47	DDD	Mt. Juliet, TN

101223NMW6 L1668230-24 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 13:15	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 04:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2169229	1	11/11/23 11:57	11/15/23 21:48	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 04:47	DDD	Mt. Juliet, TN

101223FBUAP L1668230-25 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 12:15	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 04:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 04:47	DDD	Mt. Juliet, TN

101223FDUAP2 L1668230-26 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 13:25	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 04:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 04:47	DDD	Mt. Juliet, TN

101223NMW16D L1668230-27 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 14:35	10/18/23 09:00

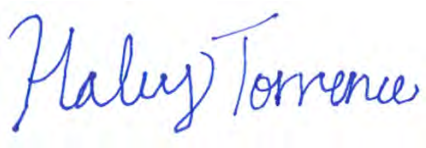
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 05:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 05:47	DDD	Mt. Juliet, TN

101223NMW6D L1668230-28 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 15:35	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 05:47	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168049	1	11/09/23 17:41	11/17/23 05:47	DDD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.522		0.262		0.281		11/15/2023 00:48	WG2165229
(T) Barium	*100*					*30.0-143*	*11/15/2023 00:48*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.554		0.223		0.379		11/15/2023 17:04	WG2168338
(T) Barium	*111*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*93.5*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.08		0.344	0.472	11/15/2023 17:04	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	1.44		0.396		0.257		11/15/2023 00:48	WG2165229
(T) Barium	*99.3*					*30.0-143*	*11/15/2023 00:48*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	3.33		0.282		0.389		11/15/2023 17:04	WG2168338
(T) Barium	*93.2*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*103*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	4.77		0.486	0.466	11/15/2023 17:04	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	9.81		0.928		0.199		11/21/2023 11:56	WG2165229
(T) Barium	*94.1*					*30.0-143*	*11/21/2023 11:56*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	4.91		0.354		0.495		11/15/2023 17:04	WG2168338
(T) Barium	*93.4*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*109*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	14.7		0.993	0.534	11/21/2023 11:56	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.773		0.289		0.211		11/15/2023 00:48	WG2165229
(T) Barium	*102*					*30.0-143*	*11/15/2023 00:48*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.860		0.237		0.392		11/15/2023 17:04	WG2168338
(T) Barium	*122*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*109*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.63		0.374	0.445	11/15/2023 17:04	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.829		0.321		0.291		11/15/2023 01:48	WG2165229
(T) Barium	*95.8*					*30.0-143*	*11/15/2023 01:48*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.474		0.252		0.432		11/15/2023 17:04	WG2168338
(T) Barium	*94.6*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*116*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.30		0.408	0.521	11/15/2023 17:04	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.550		0.306		0.351		11/15/2023 04:49	WG2166932
(T) Barium	*95.3*					*30.0-143*	*11/15/2023 04:49*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.0803	U	0.254		0.451		11/15/2023 17:04	WG2168338
(T) Barium	*110*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*111*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.550	J	0.398	0.571	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.714		0.295		0.214		11/15/2023 05:50	WG2166932
(T) Barium	*110*					*30.0-143*	*11/15/2023 05:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.15		0.263		0.364		11/15/2023 17:04	WG2168338
(T) Barium	*101*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*106*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.86		0.395	0.422	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	2.04		0.463		0.255		11/15/2023 01:48	WG2165229
(T) Barium	*100*					*30.0-143*	*11/15/2023 01:48*	WG2165229

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	6.02	J6	0.356		0.438		11/22/2023 21:28	WG2168338
(T) Barium	*84.8*					*30.0-143*	*11/22/2023 21:28*	WG2168338
(T) Yttrium	*105*					*30.0-136*	*11/22/2023 21:28*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	8.05		0.584	0.507	11/22/2023 21:28	WG2165229

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.892		0.334		0.239		11/15/2023 05:50	WG2166932
(T) Barium	*97.8*					*30.0-143*	*11/15/2023 05:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.84		0.238		0.358		11/15/2023 17:04	WG2168338
(T) Barium	*97.2*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*103*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.74		0.410	0.430	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	1.20		0.382		0.275		11/15/2023 05:50	WG2166932
(T) Barium	*98.7*					*30.0-143*	*11/15/2023 05:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.64		0.250		0.389		11/15/2023 17:04	WG2168338
(T) Barium	*114*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*98.4*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.84		0.457	0.476	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	5.69		0.706		0.230		11/21/2023 11:56	WG2166932
(T) Barium	*98.3*					*30.0-143*	*11/21/2023 11:56*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	5.83		0.316		0.383		11/15/2023 17:04	WG2168338
(T) Barium	*96.3*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*107*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	11.5		0.773	0.447	11/21/2023 11:56	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.496		0.253		0.231		11/15/2023 06:50	WG2166932
(T) Barium	*99.4*					*30.0-143*	*11/15/2023 06:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.215	J	0.257		0.449		11/15/2023 17:04	WG2168338
(T) Barium	*88.6*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*102*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.711		0.361	0.505	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	1.68		0.442		0.237		11/15/2023 06:50	WG2166932
(T) Barium	*98.9*					*30.0-143*	*11/15/2023 06:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	3.50		0.321		0.475		11/15/2023 17:04	WG2168338
(T) Barium	*102*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*104*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	5.17		0.546	0.531	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.976		0.356		0.281		11/15/2023 06:50	WG2166932
(T) Barium	*95.6*					*30.0-143*	*11/15/2023 06:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.92		0.303		0.450		11/15/2023 17:04	WG2168338
(T) Barium	*92.1*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*99.0*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.89		0.467	0.531	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	1.00		0.369		0.339		11/15/2023 06:50	WG2166932
(T) Barium	*98.7*					*30.0-143*	*11/15/2023 06:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.623		0.302		0.514		11/15/2023 17:04	WG2168338
(T) Barium	*89.0*					*30.0-143*	*11/15/2023 17:04*	WG2168338
(T) Yttrium	*109*					*30.0-136*	*11/15/2023 17:04*	WG2168338

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.62		0.477	0.616	11/15/2023 17:04	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.658		0.285		0.230		11/15/2023 07:50	WG2166932
(T) Barium	*99.5*					*30.0-143*	*11/15/2023 07:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.748		0.251		0.424		11/15/2023 21:48	WG2169229
(T) Barium	*103*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*87.5*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.41		0.380	0.482	11/15/2023 21:48	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.560		0.269		0.233		11/15/2023 07:50	WG2166932
(T) Barium	*100*					*30.0-143*	*11/15/2023 07:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.602		0.232		0.394		11/15/2023 21:48	WG2169229
(T) Barium	*102*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*102*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.16		0.355	0.458	11/15/2023 21:48	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.903		0.335		0.269		11/15/2023 07:50	WG2166932
(T) Barium	*100*					*30.0-143*	*11/15/2023 07:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.145	U	0.246		0.445		11/15/2023 21:48	WG2169229
(T) Barium	*104*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*93.6*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.903		0.416	0.520	11/15/2023 21:48	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.548		0.294		0.335		11/15/2023 07:50	WG2166932
(T) Barium	*99.8*					*30.0-143*	*11/15/2023 07:50*	WG2166932

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0363	U	0.230		0.419		11/16/2023 21:32	WG2170376
(T) Barium	*93.4*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*101*					*30.0-136*	*11/16/2023 21:32*	WG2170376

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.585		0.373	0.536	11/16/2023 21:32	WG2166932

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	1.23		0.627		0.489		11/17/2023 03:46	WG2168049
(T) Barium	*102*					*30.0-143*	*11/17/2023 03:46*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.129	U	0.213		0.378		11/15/2023 21:48	WG2169229
(T) Barium	*99.6*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*97.8*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.36		0.662	0.618	11/17/2023 03:46	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.533		0.320		0.342		11/17/2023 03:46	WG2168049
(T) Barium	*106*					*30.0-143*	*11/17/2023 03:46*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.926		0.232		0.382		11/15/2023 21:48	WG2169229
(T) Barium	*92.9*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*99.4*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.46		0.395	0.513	11/17/2023 03:46	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.900		0.352		0.197		11/17/2023 03:46	WG2168049
(T) Barium	*106*					*30.0-143*	*11/17/2023 03:46*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.581		0.230		0.391		11/15/2023 21:48	WG2169229
(T) Barium	*106*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*91.9*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.48		0.420	0.438	11/17/2023 03:46	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.927		0.389		0.350		11/17/2023 04:47	WG2168049
(T) Barium	*103*					*30.0-143*	*11/17/2023 04:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.42		0.328		0.467		11/15/2023 21:48	WG2169229
(T) Barium	*86.3*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*85.6*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.35		0.509	0.584	11/17/2023 04:47	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	1.05		0.394		0.269		11/17/2023 04:47	WG2168049
(T) Barium	*102*					*30.0-143*	*11/17/2023 04:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.972		0.249		0.411		11/15/2023 21:48	WG2169229
(T) Barium	*109*					*30.0-143*	*11/15/2023 21:48*	WG2169229
(T) Yttrium	*91.2*					*30.0-136*	*11/15/2023 21:48*	WG2169229

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.02		0.466	0.491	11/17/2023 04:47	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.133	J	0.225		0.356		11/17/2023 04:47	WG2168049
(T) Barium	*101*					*30.0-143*	*11/17/2023 04:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.485		0.212		0.369		11/16/2023 21:32	WG2170376
(T) Barium	*135*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*108*					*30.0-136*	*11/16/2023 21:32*	WG2170376

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.617		0.309	0.513	11/17/2023 04:47	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.664		0.305		0.200		11/17/2023 04:47	WG2168049
(T) Barium	*103*					*30.0-143*	*11/17/2023 04:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.50		0.288		0.473		11/16/2023 21:32	WG2170376
(T) Barium	*79.4*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*98.7*					*30.0-136*	*11/16/2023 21:32*	WG2170376

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.16		0.419	0.514	11/17/2023 04:47	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.593		0.329		0.354		11/17/2023 05:47	WG2168049
(T) Barium	*101*					*30.0-143*	*11/17/2023 05:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.04		0.264		0.447		11/16/2023 21:32	WG2170376
(T) Barium	*89.3*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*108*					*30.0-136*	*11/16/2023 21:32*	WG2170376

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.63		0.422	0.570	11/17/2023 05:47	WG2168049

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.777		0.344		0.271		11/17/2023 05:47	WG2168049
(T) Barium	*100*					*30.0-143*	*11/17/2023 05:47*	WG2168049

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.40		0.285		0.448		11/16/2023 21:32	WG2170376
(T) Barium	*110*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*101*					*30.0-136*	*11/16/2023 21:32*	WG2170376

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.18		0.447	0.524	11/17/2023 05:47	WG2168049

Method Blank (MB)

(MB) R4000211-1 11/14/23 17:24

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0885	J	0.0822	0.132	
(T) Barium	*101*		*101*		

L1667695-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1667695-06 11/14/23 21:47 • (DUP) R4000211-5 11/14/23 20:47

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.12	0.548	0.525		0.858	0.454	0.382		26.8	0.373		20	3
(T) Barium	*97.9*				*99.5*	*99.5*							

Laboratory Control Sample (LCS)

(LCS) R4000211-2 11/14/23 20:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.56	111	80.0-120	
(T) Barium			*102*		

L1668230-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-08 11/15/23 01:48 • (MS) R4000211-3 11/14/23 20:47 • (MSD) R4000211-4 11/14/23 20:47

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	2.04	26.9	25.7	124	118	1	75.0-125			4.64		20
(T) Barium		*100*			*100*	*101*							

Method Blank (MB)

(MB) R4001375-1 11/15/23 02:49

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.224		0.123	0.142	
(T) Barium	*98.8*		*98.8*		

L1668230-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1668230-06 11/15/23 04:49 • (DUP) R4001375-5 11/15/23 03:49

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.550	0.306	0.351		1.30	0.577	0.423		81.3	1.15		20	3
(T) Barium	*95.3*				*97.4*	*97.4*							

Laboratory Control Sample (LCS)

(LCS) R4001375-2 11/15/23 02:49

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.73	115	80.0-120	
(T) Barium			*99.6*		

L1668230-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-19 11/15/23 07:50 • (MS) R4001375-3 11/15/23 02:49 • (MSD) R4001375-6 11/17/23 00:46

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.548	24.3	24.0	119	117	1	75.0-125			1.20		20
(T) Barium		*99.8*			*97.9*	*52.6*							

Method Blank (MB)

(MB) R4001577-1 11/17/23 02:46

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-226	0.134	J	0.131	0.203	
(T) Barium	*101*		*101*		

L1668234-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1668234-09 11/17/23 13:35 • (DUP) R4001577-5 11/17/23 03:46

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-226	0.318	0.265	0.346		0.865	0.597	0.654		92.4	0.837		20	3
(T) Barium	*100*				*102*	*102*							

Laboratory Control Sample (LCS)

(LCS) R4001577-2 11/17/23 02:46

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.00	5.40	108	80.0-120	
(T) Barium			*103*		

L1668230-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-24 11/17/23 04:47 • (MS) R4001577-3 11/17/23 02:46 • (MSD) R4001577-4 11/17/23 02:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	1.05	20.2	19.8	95.9	93.8	1	75.0-125			2.10		20
(T) Barium		*102*			*102*	*97.4*							

Method Blank (MB)

(MB) R4005409-1 11/15/23 17:04

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.187	J	0.171	0.298	
(T) Barium	*102*		*102*		
(T) Yttrium	*99.6*		*99.6*		

L1672549-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1672549-10 11/15/23 17:04 • (DUP) R4005409-3 11/15/23 17:04

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.215	0.307	0.543		0.257	0.342	0.598		200	1.03	J	20	3
(T) Barium	*114*				*112*	*112*							
(T) Yttrium	*110*				*101*	*101*							

Laboratory Control Sample (LCS)

(LCS) R4005409-2 11/15/23 17:04

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.23	84.7	80.0-120	
(T) Barium			*118*		
(T) Yttrium			*107*		

L1668230-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-08 11/22/23 21:28 • (MS) R4005409-6 11/22/23 21:28 • (MSD) R4005409-7 11/22/23 21:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	6.02	11.7	12.9	57.2	68.6	1	70.0-130	J6	J6	9.26		20
(T) Barium		*84.8*			*104*	*103*							
(T) Yttrium		*105*			*98.9*	*114*							

Method Blank (MB)

(MB) R4001744-1 11/15/23 21:48

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.262	U	0.177	0.323	
(T) Barium	*134*		*134*		
(T) Yttrium	*98.1*		*98.1*		

L1665482-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1665482-01 11/15/23 21:48 • (DUP) R4001744-5 11/15/23 21:48

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	2.49	0.251	0.369		3.24	0.406	0.624		26.3	1.58		20	3
(T) Barium	*125*				*123*	*123*							
(T) Yttrium	*105*				*92.8*	*92.8*							

Laboratory Control Sample (LCS)

(LCS) R4001744-2 11/15/23 21:48

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.79	116	80.0-120	
(T) Barium			*139*		
(T) Yttrium			*99.1*		

L1670196-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670196-01 11/15/23 21:48 • (MS) R4001744-3 11/15/23 21:48 • (MSD) R4001744-4 11/15/23 21:48

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.100	17.0	15.1	101	89.6	1	70.0-130			12.0		20
(T) Barium		*138*			*135*	*131*							
(T) Yttrium		*93.6*			*96.1*	*96.1*							

Method Blank (MB)

(MB) R4003103-1 11/16/23 21:32

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.191	J	0.172	0.306	
(T) Barium	*99.6*		*99.6*		
(T) Yttrium	*104*		*104*		

L1668234-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1668234-07 11/16/23 21:32 • (DUP) R4003103-5 11/16/23 21:32

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.727	0.351	0.613		1.05	0.337	0.579		36.1	0.659		20	3
(T) Barium	*90.9*				*103*	*103*							
(T) Yttrium	*108*				*110*	*110*							

Laboratory Control Sample (LCS)

(LCS) R4003103-2 11/16/23 21:32

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.96	99.3	80.0-120	
(T) Barium			*105*		
(T) Yttrium			*110*		

L1668230-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1668230-19 11/16/23 21:32 • (MS) R4003103-3 11/16/23 21:32 • (MSD) R4003103-4 11/16/23 21:32

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.0363	7.46	8.35	74.3	83.2	1	70.0-130			11.3		20
(T) Barium		*93.4*			*105*	*110*							
(T) Yttrium		*101*			*108*	*99.9*							

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

C055

Pace

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: VA
Cert. Needed: ☒ Yes ☐ No
Owner Received Date: 10/10/2023 Results Requested By: 10/24/2023

Workorder: 92692277 Workorder Name: CPS_2SA2023_CCR_GroupB

Report To	Subcontract To
Angela Baioni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone 612-473-6801	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

L1668230

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3						Requested Analysis Ra226 903.0/9315	Ra228 9320, Combined Ra											LAB USE ONLY
1 ✓	100923NB31	PS	10/9/2023 13:10	92692277001	Water	2						X	X											-01
2 ✓	101023NB32	PS	10/10/2023 11:55	92692277002	Water	2						X	X											-02
3 ✓	101023NMW2	PS	10/10/2023 13:45	92692277003	Water	2						X	X											-03
4 ✓	101023NMW3	PS	10/10/2023 15:00	92692277004	Water	2						X	X											-04
5 ✓	101023NMW3D	PS	10/10/2023 15:55	92692277005	Water	2						X	X											-05
6 ✓	101123NMW30U	PS	10/11/2023 09:15	92692277006	Water	2						X	X											-06
7 ✓	101123NMW16	PS	10/11/2023 09:25	92692277007	Water	2						X	X											-07
8 ✓	101123NMW1	RQS	10/11/2023 09:25	92692277008	Water	6						X	X											-08
9 ✓	101123NMW15	PS	10/11/2023 10:40	92692277009	Water	2						X	X											-09
10 ✓	101123FDUAP1	PS	10/11/2023 10:45	92692277010	Water	2						X	X											-10
11 ✓	101123NMW1D	PS	10/11/2023 11:20	92692277011	Water	2						X	X											-11
12 ✓	101123NMW35D	PS	10/11/2023 12:25	92692277012	Water	2						X	X											-12
13 ✓	101123NMW17S	PS	10/11/2023 12:20	92692277013	Water	2						X	X											-13
14 ✓	101123NMW4	PS	10/11/2023 12:30	92692277014	Water	2						X	X											-14
15 ✓	101123NMW7	PS	10/11/2023 14:45	92692277015	Water	2						X	X											-15
16 ✓	101123NMW8R	PS	10/11/2023 13:55	92692277016	Water	2						X	X											-16
17 ✓	101123NMW9R	PS	10/11/2023 14:05	92692277017	Water	2						X	X											-17
18 ✓	101123NMW10	PS	10/11/2023 16:15	92692277018	Water	2						X	X											-18
19 ✓	101223NMW14	RQS	10/12/2023 09:45	92692277019	Water	6						X	X											-19

Internal Transfer Chain of Custody

☐ Rush Multiplier____X
☐ Samples Pre-Logged into eCOC

State Of Origin: VA
Cert. Needed: ☐ Yes ☐ No

Workorder: 92692277 Workorder Name: CPS_2SA2023_CCR_GroupB

Owner Received Date: 10/10/2023 Results Requested By: 10/24/2023

Report To	Subcontract To
Angela Baioni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone 612-473-6801	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3	Requested Analysis: Ra226 903.0/9315	Ra228 9320, Combined Ra	LAB USE ONLY
20	101223NMW12	PS	10/12/2023 10:10	92692277020	Water	2	X	X	-20
21	101223NMW13	PS	10/12/2023 11:30	92692277021	Water	2	X	X	-21
22	101223NMW11	PS	10/12/2023 11:35	92692277022	Water	2	X	X	-22
23	101223NMW5	PS	10/12/2023 13:05	92692277023	Water	2	X	X	-23
24	101223NMW6	PS	10/12/2023 13:15	92692277024	Water	2	X	X	-24
25	101223FBUAP	PS	10/12/2023 12:15	92692277025	Water	2	X	X	-25
26	101223FDUAP2	PS	10/12/2023 13:25	92692277026	Water	2	X	X	-26
27	101223NMW16D	PS	10/12/2023 14:35	92692277027	Water	2	X	X	-27
28	101223NMW6D	PS	10/12/2023 15:35	92692277028	Water	2	X	X	-28

4668230

Transfers	Released By	Date/Time	Received By	Date/Time
1	PACE ANL	10/17/23 1705		
2				
3			Christopher T. Wallace (09)	10/18/23 0400

Comments

Cooler Temperature on Receipt _____ °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

CCAB 15.310

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	Y N	VOA Zero Headspace:	Y N
COC Signed/Accurate:	Y N	Pres. Correct/Check:	Y N
Bottles arrive intact:	Y N		
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N		

64 RECEIVED

L1668230

INTER_LABORATORY WORK ORDER # 92692277

(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	92692277
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	10/16/23
REQUESTED COMPLETION DATE:	**10/24/2023**

Sending Region	IR92-Charlotte	Sending Project Mgr.	Angela Baioni
Receiving Region	IR850-Pace National	External Client	Dominion Energy_VA
State of Sample Origin	VA	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Wet Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
Ra226 903.0/9315	BP1N		HNO3	28	SI-38RAD	SUB PASI RAD
Ra228 9320, Combined Ra	BP1N		HNO3	28	SI-38RAD02	SUB PASI RAD

Special Requirements: Report D, QC Limits, MDLs (D),Dominion EQEDD (1616),Golder Equis 5 (34)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☐ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

U668230

Tracking Numbers		Temperature
6672 3590 5426		15.3+0
6672 3590 5390		16.0+0
5415		15.2+0
5378		14.8+0
5404		16.1+0

Name

Date

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 07, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory between October 11, 2023 and October 12, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

cc: Michael Knez, WSP
Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692693001	**100923NMW35S**	Water	10/09/23 13:45	10/11/23 11:15
92692693002	**101123NMW29U**	Water	10/11/23 10:55	10/12/23 11:00

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692693001	**100923NMW35S**	EPA 6010D	DBB1, SBW	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92692693002	**101123NMW29U**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692693001	**100923NMW35S**					
EPA 6010D	Barium	33.3	ug/L	5.0	10/12/23 23:52	
EPA 6010D	Calcium	5650	ug/L	100	10/12/23 23:52	
EPA 6020B	Arsenic	0.38J	ug/L	1.0	10/13/23 17:23	
EPA 6020B	Cobalt	0.50J	ug/L	1.0	10/13/23 17:23	
EPA 6020B	Lead	0.61J	ug/L	1.0	10/13/23 17:23	
EPA 6020B	Lithium	3.6	ug/L	2.5	10/13/23 17:23	
EPA 6020B	Molybdenum	0.74J	ug/L	1.0	10/13/23 17:23	
EPA 9056A	Chloride	12.5	mg/L	1.0	10/14/23 03:03	
EPA 9056A	Fluoride	0.059J	mg/L	0.10	10/14/23 03:03	
EPA 9056A	Sulfate	4.9	mg/L	1.0	10/14/23 03:03	
92692693002	**101123NMW29U**					
EPA 6010D	Barium	249	ug/L	5.0	10/18/23 13:49	
EPA 6010D	Cadmium	0.86J	ug/L	1.0	10/18/23 13:49	
EPA 6010D	Calcium	44000	ug/L	100	10/18/23 13:49	
EPA 6020B	Arsenic	11.0	ug/L	1.0	10/18/23 02:43	
EPA 6020B	Cobalt	3.1	ug/L	1.0	10/18/23 02:43	
EPA 6020B	Lead	0.35J	ug/L	1.0	10/18/23 02:43	
EPA 6020B	Lithium	0.62J	ug/L	2.5	10/18/23 02:43	
EPA 6020B	Molybdenum	0.50J	ug/L	1.0	10/18/23 02:43	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	10/16/23 18:53	
EPA 9056A	Chloride	14.9	mg/L	1.0	10/14/23 11:54	
EPA 9056A	Fluoride	0.19	mg/L	0.10	10/14/23 11:54	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Method: **EPA 6010D**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
2 samples were analyzed for EPA 6010D by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 806534

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92692277008

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

- MS (Lab ID: 4176298)
  - Boron
  - Calcium
- MSD (Lab ID: 4176299)
  - Boron
  - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
2 samples were analyzed for EPA 6020B by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
2 samples were analyzed for EPA 7470A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Method: **SM 2540C-2015**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
1 sample was analyzed for SM 2540C-2015 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
2 samples were analyzed for EPA 9056A by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 806350

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92692277019,92692693002

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

- MSD (Lab ID: 4175820)
  - Sulfate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Sample: 100923NMW35S **Lab ID: 92692693001** Collected: 10/09/23 13:45 Received: 10/11/23 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**33.3**	ug/L	5.0	3.5	1	10/12/23 10:35	10/12/23 23:52	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/12/23 10:35	10/12/23 23:52	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/12/23 10:35	10/13/23 15:43	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/12/23 10:35	10/12/23 23:52	7440-43-9	
Calcium	**5650**	ug/L	100	94.2	1	10/12/23 10:35	10/12/23 23:52	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/12/23 10:35	10/12/23 23:52	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/12/23 10:35	10/12/23 23:52	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/12/23 10:40	10/13/23 17:23	7440-36-0	
Arsenic	**0.38J**	ug/L	1.0	0.087	1	10/12/23 10:40	10/13/23 17:23	7440-38-2	
Cobalt	**0.50J**	ug/L	1.0	0.050	1	10/12/23 10:40	10/13/23 17:23	7440-48-4	
Lead	**0.61J**	ug/L	1.0	0.077	1	10/12/23 10:40	10/13/23 17:23	7439-92-1	
Lithium	**3.6**	ug/L	2.5	0.50	1	10/12/23 10:40	10/13/23 17:23	7439-93-2	
Molybdenum	**0.74J**	ug/L	1.0	0.13	1	10/12/23 10:40	10/13/23 17:23	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/12/23 10:40	10/13/23 17:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/13/23 15:08	10/14/23 11:57	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**12.5**	mg/L	1.0	0.60	1		10/14/23 03:03	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		10/14/23 03:03	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		10/14/23 03:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Sample: 101123NMW29U **Lab ID: 92692693002** Collected: 10/11/23 10:55 Received: 10/12/23 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Barium	**249**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:49	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:49	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:49	7440-42-8	
Cadmium	**0.86J**	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:49	7440-43-9	
Calcium	**44000**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:49	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:49	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:49	7782-49-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville								
Antimony	ND	ug/L	1.0	0.20	1	10/16/23 12:25	10/18/23 02:43	7440-36-0	
Arsenic	**11.0**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:43	7440-38-2	
Cobalt	**3.1**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:43	7440-48-4	
Lead	**0.35J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:43	7439-92-1	
Lithium	**0.62J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:43	7439-93-2	
Molybdenum	**0.50J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:43	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	ug/L	0.20	0.12	1	10/13/23 15:08	10/14/23 11:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**400**	mg/L	25.0	25.0	1		10/16/23 18:53		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**14.9**	mg/L	1.0	0.60	1		10/14/23 11:54	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		10/14/23 11:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 11:54	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806184
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693001, 92692693002

METHOD BLANK: 4174809 Matrix: Water
Associated Lab Samples: 92692693001, 92692693002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/14/23 11:23	

LABORATORY CONTROL SAMPLE: 4174810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174811 4174812

Parameter	Units	92691921002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.12	2.5	2.5	2.4	2.4	98	98	75-125	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 805805
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693001

METHOD BLANK: 4172734 Matrix: Water
Associated Lab Samples: 92692693001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/12/23 23:17	
Beryllium	ug/L	ND	1.0	0.70	10/12/23 23:17	
Boron	ug/L	ND	50.0	32.4	10/12/23 23:17	
Cadmium	ug/L	ND	1.0	0.40	10/12/23 23:17	
Calcium	ug/L	ND	100	94.2	10/12/23 23:17	
Chromium	ug/L	ND	5.0	3.7	10/12/23 23:17	
Selenium	ug/L	ND	10.0	4.7	10/12/23 23:17	

LABORATORY CONTROL SAMPLE: 4172735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	479	96	80-120	
Beryllium	ug/L	500	462	92	80-120	
Boron	ug/L	500	466	93	80-120	
Cadmium	ug/L	500	485	97	80-120	
Calcium	ug/L	5000	4870	97	80-120	
Chromium	ug/L	500	473	95	80-120	
Selenium	ug/L	500	452	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4172736 4172737

Parameter	Units	92692277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	13.4	500	500	478	480	93	93	75-125	0	20	
Beryllium	ug/L	ND	500	500	464	465	93	93	75-125	0	20	
Boron	ug/L	ND	500	500	480	548	96	110	75-125	13	20	
Cadmium	ug/L	ND	500	500	475	479	95	96	75-125	1	20	
Calcium	ug/L	2710	5000	5000	7480	7520	95	96	75-125	1	20	
Chromium	ug/L	ND	500	500	462	464	92	93	75-125	0	20	
Selenium	ug/L	ND	500	500	479	483	96	97	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806534
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693002

METHOD BLANK: 4176296 Matrix: Water
Associated Lab Samples: 92692693002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	3.5	10/18/23 12:42	
Beryllium	ug/L	ND	1.0	0.70	10/18/23 12:42	
Boron	ug/L	ND	50.0	32.4	10/18/23 12:42	
Cadmium	ug/L	ND	1.0	0.40	10/18/23 12:42	
Calcium	ug/L	ND	100	94.2	10/18/23 12:42	
Chromium	ug/L	ND	5.0	3.7	10/18/23 12:42	
Selenium	ug/L	ND	10.0	4.7	10/18/23 12:42	

LABORATORY CONTROL SAMPLE: 4176297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	503	101	80-120	
Beryllium	ug/L	500	503	101	80-120	
Boron	ug/L	500	508	102	80-120	
Cadmium	ug/L	500	506	101	80-120	
Calcium	ug/L	5000	5100	102	80-120	
Chromium	ug/L	500	501	100	80-120	
Selenium	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176298 4176299

Parameter	Units	92692277008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	140	500	500	560	571	84	86	75-125	2	20	
Beryllium	ug/L	ND	500	500	453	463	91	93	75-125	2	20	
Boron	ug/L	3490	500	500	3520	3570	5	14	75-125	1	20	M1
Cadmium	ug/L	ND	500	500	439	447	88	89	75-125	2	20	
Calcium	ug/L	147000	5000	5000	154000	161000	145	284	75-125	4	20	M1
Chromium	ug/L	ND	500	500	437	446	87	89	75-125	2	20	
Selenium	ug/L	ND	500	500	475	483	95	97	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 805806
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92692693001

METHOD BLANK: 4172738 Matrix: Water
Associated Lab Samples: 92692693001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/13/23 16:43	
Arsenic	ug/L	ND	1.0	0.087	10/13/23 16:43	
Cobalt	ug/L	ND	1.0	0.050	10/13/23 16:43	
Lead	ug/L	ND	1.0	0.077	10/13/23 16:43	
Lithium	ug/L	ND	2.5	0.50	10/13/23 16:43	
Molybdenum	ug/L	ND	1.0	0.13	10/13/23 16:43	
Thallium	ug/L	ND	0.20	0.050	10/13/23 16:43	

LABORATORY CONTROL SAMPLE: 4172739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.0	96	80-120	
Arsenic	ug/L	50	46.1	92	80-120	
Cobalt	ug/L	50	49.7	99	80-120	
Lead	ug/L	50	45.8	92	80-120	
Lithium	ug/L	50	50.1	100	80-120	
Molybdenum	ug/L	50	47.9	96	80-120	
Thallium	ug/L	25	23.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4172740 4172741

Parameter	Units	92692277002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.35J	50	50	48.2	48.5	96	96	75-125	1	20	
Arsenic	ug/L	0.22J	50	50	46.9	47.5	93	95	75-125	1	20	
Cobalt	ug/L	0.18J	50	50	49.8	51.3	99	102	75-125	3	20	
Lead	ug/L	0.087J	50	50	47.0	47.7	94	95	75-125	1	20	
Lithium	ug/L	ND	50	50	52.0	51.7	103	103	75-125	1	20	
Molybdenum	ug/L	1.0	50	50	49.2	50.1	96	98	75-125	2	20	
Thallium	ug/L	ND	25	25	23.9	24.3	96	97	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806539
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693002

METHOD BLANK: 4176319 Matrix: Water
Associated Lab Samples: 92692693002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	0.20	10/17/23 07:00	
Arsenic	ug/L	ND	1.0	0.087	10/17/23 07:00	
Cobalt	ug/L	ND	1.0	0.050	10/17/23 07:00	
Lead	ug/L	ND	1.0	0.077	10/17/23 07:00	
Lithium	ug/L	ND	2.5	0.50	10/17/23 07:00	
Molybdenum	ug/L	ND	1.0	0.13	10/17/23 07:00	
Thallium	ug/L	ND	0.20	0.050	10/17/23 07:00	

LABORATORY CONTROL SAMPLE: 4176320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.8	98	80-120	
Arsenic	ug/L	50	55.0	110	80-120	
Cobalt	ug/L	50	55.0	110	80-120	
Lead	ug/L	50	53.8	108	80-120	
Lithium	ug/L	50	57.3	115	80-120	
Molybdenum	ug/L	50	49.2	98	80-120	
Thallium	ug/L	25	27.0	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4176321 4176322

Parameter	Units	92692277008 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	50.9	51.1	102	102	75-125	0	20	
Arsenic	ug/L	0.92J	50	50	55.0	55.0	108	108	75-125	0	20	
Cobalt	ug/L	6.5	50	50	61.4	61.3	110	110	75-125	0	20	
Lead	ug/L	ND	50	50	53.1	53.7	106	107	75-125	1	20	
Lithium	ug/L	0.52J	50	50	53.1	54.1	105	107	75-125	2	20	
Molybdenum	ug/L	0.36J	50	50	51.8	51.4	103	102	75-125	1	20	
Thallium	ug/L	ND	25	25	27.2	27.6	109	110	75-125	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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806682
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693002

METHOD BLANK: 4177130 Matrix: Water
Associated Lab Samples: 92692693002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/16/23 18:50	

LABORATORY CONTROL SAMPLE: 4177131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4177132

Parameter	Units	92692277010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	619	594	4	25	

SAMPLE DUPLICATE: 4177133

Parameter	Units	92692277017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	254	255	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806075
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693001

METHOD BLANK: 4174352 Matrix: Water
Associated Lab Samples: 92692693001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/13/23 23:21	
Fluoride	mg/L	ND	0.10	0.050	10/13/23 23:21	
Sulfate	mg/L	ND	1.0	0.50	10/13/23 23:21	

LABORATORY CONTROL SAMPLE: 4174353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.4	107	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	53.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174354 4174355

Parameter	Units	92692399009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.5	50	50	67.5	68.0	100	101	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	98	90-110	1	10	
Sulfate	mg/L	1.5	50	50	51.9	52.4	101	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174356 4174357

Parameter	Units	92692870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.1	50	50	52.7	53.2	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	101	90-110	1	10	
Sulfate	mg/L	1.6	50	50	52.3	52.7	101	102	90-110	1	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

QC Batch: 806350
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692693002

METHOD BLANK: 4175817 Matrix: Water
Associated Lab Samples: 92692693002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/14/23 11:27	
Fluoride	mg/L	ND	0.10	0.050	10/14/23 11:27	
Sulfate	mg/L	ND	1.0	0.50	10/14/23 11:27	

LABORATORY CONTROL SAMPLE: 4175818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175819 4175820

Parameter	Units	92692693002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.9	50	50	61.4	59.9	93	90	90-110	2	10	
Fluoride	mg/L	0.19	2.5	2.5	2.5	2.5	93	91	90-110	2	10	
Sulfate	mg/L	ND	50	50	45.9	44.5	91	89	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4175821 4175822

Parameter	Units	92692277019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	50	50	48.1	47.7	94	93	90-110	1	10	
Fluoride	mg/L	0.071J	2.5	2.5	2.4	2.4	92	91	90-110	1	10	
Sulfate	mg/L	8.1	50	50	55.7	55.6	95	95	90-110	0	10	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupD
Pace Project No.: 92692693

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692693001	**100923NMW35S**	EPA 3010A	805805	EPA 6010D	805970
92692693002	**101123NMW29U**	EPA 3010A	806534	EPA 6010D	806639
92692693001	**100923NMW35S**	EPA 3010A	805806	EPA 6020B	805976
92692693002	**101123NMW29U**	EPA 3010A	806539	EPA 6020B	806644
92692693001	**100923NMW35S**	EPA 7470A	806184	EPA 7470A	806260
92692693002	**101123NMW29U**	EPA 7470A	806184	EPA 7470A	806260
92692693002	**101123NMW29U**	SM 2540C-2015	806682		
92692693001	**100923NMW35S**	EPA 9056A	806075		
92692693002	**101123NMW29U**	EPA 9056A	806350		

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

WO# : 92692693

92692693

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Dominion Energy_VA	Report To	Crystal Shadle	Attention	
Address	1100 Boulders Parkway	Copy To	Catherine Pezzarc	Company Name	
Suite 503 Richmond VA 23225		[illegible]@wsp.com		Address	Regulatory Agency
Email	crystal.shadle@wsp.com	Purchase Order #		Pace Quote	
Phone	(804) 934-1784 Fax	Project Name	CPS (CPS_2SA2023_UPG_D)	Pace Project Manager	[illegible]@pacelabs.com State / Location
Requested Due Date	Standard TAT	Project #	31406066.007	Pace Profile #:	13861 VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	9056 CIFISO4	RADS 9315/9320	Total 6010-6010/7470 Metals	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)
																		Requested Analysis Filtered (Y/N)	N	N	N	N	
1	~~10 23NMW29U~~ ~~TT~~	WT	G			--	--												X	X	X	X	N
2	1003 23NMW35S	WT	G	10/10/23	1345	--	--		4	X		X							X	X	X		N
3		WT	G			--	--																N
4		WT	G			--	--																N
5		WT	G			--	--																N
6		WT	G			--	--																N
7		WT	G			--	--																N
8		WT	G			--	--																N
9		WT	G			--	--																N
10		WT	G			--	--																N
11		WT	G			--	--																N
12		WT	G			--	--																N

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	J. Davis / WSP	10/10/23	1440	[illegible] PACE	10/10/23	1440	
All samples preserved on ice	[illegible] PACE	10/10/23	1600	[illegible]	10/11/23	0815	2.9 + ~ X
							2.7

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	T. Tomix				
SIGNATURE of SAMPLER:	[signature] DATE Signed: 10/10/23				

COC ID CPS_2SA2023_CCR_GroupD_ 2_1

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy

Project #:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other ____

Carrier Tracking Number: _____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Date/Initials Person Examining Contents: 6 10/11/22

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 43502 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.5 / 3.3 / 1.8 Correction Factor: Add / Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Corrected Cooler Temp (°C): 1.5 / 3.3 / 1.8

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1115 Temp:
Time: put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
****Bottom half of box is to list number of bottles**
*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1			1																			2				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Dominion Energy, Va	Report To: Alexis Shadix	Attention:
Address: 1100 Boulders Parkway	Copy To: Catherine Pezzaglia	Company Name:
State/Zip: Richmond, VA 23225		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: 804 994 1754 Fax:	Project Name: CPS_CPS_2SA2023_UPG_D	Pace Project Manager:
Requested Due Date: Standard TAT	Project #: 3120601.007	Pace Profile #: 13861

Regulatory Agency

State / Location: VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9, -) Sample Ids must be unique)	MATRIX CODE (Drinking Water DW, Water WT, Waste Water WW, Product P, Soil SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Start DATE	COLLECTED Start TIME	COLLECTED End DATE	COLLECTED End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	RESIDUAL CHLORINE (Y/N)
1	CPS_23NMW29D	WT	G	10/10/23	1055				5	X X			N
2	CPS_23NMW35S	WT	G										N
3		WT	G										N
4		WT	G										N
5		WT	G										N
6		WT	G										N
7		WT	G										N
8		WT	G										N
9		WT	G										N
10		WT	G										N
11		WT	G										N
12		WT	G										N

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	[signature] INSR	10/11/23	1500	[signature] PACE	10/11/23	1500	
All samples preserved on ice	[signature] PACE	10/11/23	1600	[signature]	10/12/23	11:00	1.4 (1-5) x x x

COC ID: CPS_2SA2023_CCR_GroupD_3-1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Tomasi

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/11/23

Pace Analytical®	Document Name: ESI Tech Spec Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-038-Rev.04	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion

Project #:

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

Carrier Tracking Number:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No Date/Initials Person Examining Contents: 1.10/22/21

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 43T052 Type of Ice: ☑ Wet ☐ Blue ☐ None

Temp Correction Factor: Add / Subtract 0 °C

Cooler Temp.: °C

Corrected Cooler Temp.: °C 1.1/1.4/1.5/2.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5 6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.	
Time opened: 11:00	Temp: 1.1/1.4/1.5/2.3
Time:	put in cooler
Time:	Temp:

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1			2			1																			2			
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

ANALYTICAL REPORT

December 01, 2023

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1668235
Samples Received:	10/18/2023
Project Number:	92692693
Description:	CPS_2SA2023_CCR_GroupD
Site:	001
Report To:	Angela Baioni 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Entire Report Reviewed By:

Haley Torrence

Project Manager

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



TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

100923NMW35S L1668235-01 5

101123NMW29U L1668235-03 6

Qc: Quality Control Summary 7

Radiochemistry by Method 903.0/9315 7

Radiochemistry by Method 904/9320 8

Gl: Glossary of Terms 9

Al: Accreditations & Locations 10

Sc: Sample Chain of Custody 11

100923NMW35S L1668235-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/09/23 13:45	10/18/23 09:00

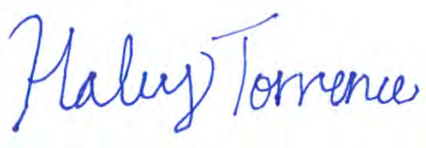
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168720	1	11/13/23 16:09	11/21/23 19:31	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170939	1	11/14/23 15:32	11/27/23 12:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168720	1	11/13/23 16:09	11/27/23 12:19	DDD	Mt. Juliet, TN

101123NMW29U L1668235-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/09/23 10:55	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168720	1	11/13/23 16:09	11/21/23 19:31	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170939	1	11/14/23 15:32	11/27/23 12:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168720	1	11/13/23 16:09	11/27/23 12:19	DDD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence
Project Manager

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.967		0.328		0.222		11/21/2023 19:31	WG2168720
(T) Barium	*100*					*30.0-143*	*11/21/2023 19:31*	WG2168720

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.832		0.289		0.510		11/27/2023 12:19	WG2170939
(T) Barium	*107*					*30.0-143*	*11/27/2023 12:19*	WG2170939
(T) Yttrium	*107*					*30.0-136*	*11/27/2023 12:19*	WG2170939

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.80		0.437	0.556	11/27/2023 12:19	WG2168720

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.547		0.275		0.290		11/21/2023 19:31	WG2168720
(T) Barium	*101*					*30.0-143*	*11/21/2023 19:31*	WG2168720

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.385	J	0.401		0.728		11/27/2023 12:19	WG2170939
(T) Barium	*99.4*					*30.0-143*	*11/27/2023 12:19*	WG2170939
(T) Yttrium	*120*					*30.0-136*	*11/27/2023 12:19*	WG2170939

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.933		0.486	0.784	11/27/2023 12:19	WG2168720

Method Blank (MB)

(MB) R4004688-2 11/21/23 17:31

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-226	0.197		0.123	0.172	
(T) Barium	*99.7*		*99.7*		

L1668234-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1668234-13 11/21/23 18:31 • (DUP) R4004688-3 11/21/23 17:31

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-226	0.524	0.251	0.221		1.15	0.562	0.534		75.0	1.02		20	3
(T) Barium	*101*				*101*	*101*							

Laboratory Control Sample (LCS)

(LCS) R4004688-1 11/21/23 14:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.00	5.82	116	80.0-120	
(T) Barium			*98.3*		

L1670483-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670483-09 11/21/23 21:32 • (MS) R4004688-6 11/26/23 11:45 • (MSD) R4004688-7 11/26/23 11:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.213	23.0	14.8	114	72.7	1	75.0-125		J3 J6	43.8		20
(T) Barium		*101*			*104*	*103*							

Method Blank (MB)

(MB) R4006162-2 11/27/23 12:19

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.178	J	0.165	0.301	
(T) Barium	*107*		*107*		
(T) Yttrium	*100*		*100*		

L1668234-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1668234-16 11/27/23 12:19 • (DUP) R4006162-5 11/27/23 12:19

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.23	0.360	0.629		0.833	0.334	0.594		38.5	0.808		20	3
(T) Barium	*113*				*120*	*120*							
(T) Yttrium	*112*				*123*	*123*							

Laboratory Control Sample (LCS)

(LCS) R4006162-1 11/22/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.00	99.9	80.0-120	
(T) Barium			*95.2*		
(T) Yttrium			*100*		

L1664280-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-01 11/27/23 12:19 • (MS) R4006162-3 11/27/23 12:19 • (MSD) R4006162-4 11/27/23 12:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.61	10.6	11.9	53.8	61.6	1	70.0-130	J6	J6	11.6		20
(T) Barium		*111*			*119*	*113*							
(T) Yttrium		*97.8*			*109*	*105*							

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: VA
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 10/11/2023 Results Requested By: 10/25/2023

Workorder: 92692693 Workorder Name: CPS_2SA2023_CCR_GroupD

Report To	Subcontract To
Angela Baioni Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone 612-473-6801	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

C054

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers HNO3						Requested Analysis Ra226 903.0/9315	Ra228 9320/Combined Ra											LAB USE ONLY
1	100923NMW35S	PS	10/9/2023 13:45	92692693001	Water	2						X	X											-01
2	101123NMW29U	PS	10/11/2023 10:55	92692693002	Water	2						X	X											-02
3																								
4																								
5																								

LL#08235
LAB USE ONLY

Transfers	Released By	Date/Time	Received By	Date/Time
1	A Barbee PACE AVL	10/12/23 1700		
2			James 10/18/23	0900
3				

Comments

Cooler Temperature on Receipt _____°C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N		

L1668235

INTER_LABORATORY WORK ORDER # 92692693
(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	92692693
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	10/13/23
REQUESTED COMPLETION DATE:	**10/25/2023**

Sending Region	IR92-Charlotte	Sending Project Mgr.	Angela Baioni
Receiving Region	IR850-Pace National	External Client	Dominion Energy_VA
State of Sample Origin	VA	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Wet Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
Ra226 903.0/9315	BP1N		HNO3	2	SI-38RAD	SUB PASI RAD
Ra228 9320/Combined Ra	BP1N		HNO3	2	SI-38RAD02	SUB PASI RAD

Special Requirements: Report D, QC Limits, MDLs (D),Dominion EQEDD (1616),Golder Equis 5 (34)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☐ No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

UI668235

Tracking Numbers		Temperature
6672 3590 5426		15.3+0
6672 3590 5390		16.0+0
5415		15.2+0
5378		14.8+0
5404		16.1+0

Name

Date

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 17, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory between October 10, 2023 and October 11, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

cc: Michael Knez, WSP
Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692278001	**100923NMWB31**	Water	10/09/23 13:10	10/10/23 10:35
92692278002	**101023NMWB32**	Water	10/10/23 11:55	10/11/23 11:15

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692278001	**100923NMWB31**	SM 2540C-2015	RVS	1	PASI-A
92692278002	**101023NMWB32**	SM 2540C-2011	RVS	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692278001	**100923NMWB31**					
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	25.0	10/11/23 19:14	
92692278002	**101023NMWB32**					
SM 2540C-2011	Total Dissolved Solids	1330	mg/L	50.0	10/12/23 21:25	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: October 17, 2023

General Information:
1 sample was analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Method: **SM 2540C-2015**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: October 17, 2023

General Information:
1 sample was analyzed for SM 2540C-2015 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Sample: 100923NMWB31 **Lab ID: 92692278001** Collected: 10/09/23 13:10 Received: 10/10/23 10:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**67.0**	mg/L	25.0	25.0	1		10/11/23 19:14		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Sample: 101023NMWB32 **Lab ID: 92692278002** Collected: 10/10/23 11:55 Received: 10/11/23 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1330**	mg/L	50.0	50.0	1		10/12/23 21:25		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

QC Batch: 806039
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692278002

METHOD BLANK: 4174261 Matrix: Water
Associated Lab Samples: 92692278002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/12/23 21:22	

LABORATORY CONTROL SAMPLE: 4174262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4174263

Parameter	Units	92692270009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	101	102	1	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

QC Batch: 805710
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692278001

METHOD BLANK: 4172269 Matrix: Water
Associated Lab Samples: 92692278001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/11/23 19:11	

LABORATORY CONTROL SAMPLE: 4172270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 4172271

Parameter	Units	92692080028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	77.0	77.0	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupE
Pace Project No.: 92692278

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692278002	**101023NMWB32**	SM 2540C-2011	806039		
92692278001	**100923NMWB31**	SM 2540C-2015	805710		

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

WO# : 92692278

92692278

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Dominion Energy_VA	Report To:	Crystal Shadle	Attention:	
Address:	1100 Boulders Parkway	Copy To:	Catherine Pezzaro	Company Name:	
Suite 503, Richmond, VA 23225		catherine.pezzaro@wsp.com		Address:	
Email:	crystal.shadle@wsp.com	Purchase Order #:		Pace Quote:	
Phone:	(804) 934-1784 Fax	Project Name:	CPS (CPS_2SA2C23_LAP/UAP_E)	Pace Project Manager:	angela.baioni@pacelabs.com
Requested Due Date:	Standard TAT	Project #:	31408086.007	Pace Profile #:	13861

Regulatory Agency

State / Location: VA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)
1	1099 23NMWB31	WT	G	10/6/23	1310	-	-		1	X								N	X	N
2	10 23NMWB32 TT	WT	G			-	-											N	X	N
3		WT	G			-	-											N		N
4		WT	G			-	-											N		N
5		WT	G			-	-											N		N
6		WT	G			-	-											N		N
7		WT	G			-	-											N		N
8		WT	G			-	-											N		N
9		WT	G			-	-											N		N
10		WT	G			-	-											N		N
11		WT	G			-	-											N		N
12		WT	G			-	-											N		N

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level II Data package	M. Weidman/WSP	10/09/23	1458	PACE	10/9/23	1456	N/A	Y	Y	Y
All samples preserved on ice	PACE	10/9/23	1600	A.Ruchart/PACE/AVL	10-10-23	1035	2.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	T. Torris / M. Weidman / J. Davis				
SIGNATURE of SAMPLER:	DATE Signed: 10/09/23				

COC ID: CPS_2SA2023_CCR_GroupE_ 1-1

Pace

M. Weidman

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy VA

Project #:

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

Carrier Tracking Number: 7736 7599 1649

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Date/Initials Person Examining Contents: 10-10-23 AK

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 937082 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.5 Correction Factor: Add / Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Corrected Cooler Temp (°C): 2.5

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1105 Temp: 2.5
Time: 1120 put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax Document ID: 70677

Page 1 of 2

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Items#	BP4U-125 mL Plastic Unpreserved (N/A) (CL-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CL-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CL-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CL-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CL-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CL-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : Of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Dominion Energy, VA	Report To: Chelsie Stuller	Attention:	
Address: 120 Bowles Parkway	Copy To: Catherine Pollard	Company Name:	
Suite 501, Richmond, VA 23235		Address:	Regulatory Agency
Email:	Purchase Order #	Pace Quote:	
Phone: 804-554-7364 Fax:	Project Name: CPS_PLSA2023 CCR GroupE_2	Pace Project Manager:	State / Location
Requested Due Date: Standard TAT	Project #: 3140844.0010	Pace Profile #: 13861	VA

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9) Sample Ids must be unique	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (Drop Down)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
1	~~23NMWB01~~		WT																		N	
2	1010 23NMWB02		WT		10/10/23	1155			1	X											N	
3			WT																		N	
4			WT																		N	
5			WT																		N	
6			WT																		N	
7			WT																		N	
8			WT																		N	
9			WT																		N	
10			WT																		N	
11			WT																		N	
12			WT																		N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	JDAVIS/WSP	10-10-23	1445	PACE	10/10/23	1445	
All samples preserved on ice	PACE	10/10/23	1600		10/10/23	1615	1.9 T — F
							1.5 2.3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: J. Davis

SIGNATURE of SAMPLER: DATE Signed: 10/10/23

COC ID: CPS_2SA2023 CCR GroupE_2.1

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy

Project #:

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

Carrier Tracking Number:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Date/Initials Person Examining Contents: 10/11/23

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 93582 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.5/2.3/1.9 Correction Factor: Add / Subtract (°C) 0

Corrected Cooler Temp (°C): 1.5/2.3/1.9

Temp should be above freezing to 6°C
☐ Samples out of temp criteria Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.	
Time opened: 11:15	Temp:
Time:	put in cooler
Time:	Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			1																									
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 17, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 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

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

cc: Michael Knez, WSP
Rashida Marlowe, Dominion Energy Services, Inc.
Catherine Pezzaro, WSP USA, Inc.
Crystal Shadle, Golder Associates Inc.
Environmental Standards, Inc., Environmental Standards, Inc.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692695001	**100923NMW35S**	Water	10/09/23 13:45	10/11/23 11:15

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692695001	**100923NMW35S**	SM 2540C-2011	JMH1	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692695001	**100923NMW35S**					
SM 2540C-2011	Total Dissolved Solids	114	mg/L	25.0	10/12/23 11:06	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: October 17, 2023

General Information:
1 sample was analyzed for SM 2540C-2011 by Pace Analytical Services Asheville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Sample: 100923NMW35S **Lab ID: 92692695001** Collected: 10/09/23 13:45 Received: 10/11/23 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**114**	mg/L	25.0	25.0	1		10/12/23 11:06		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

QC Batch: 805798
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692695001

METHOD BLANK: 4172708 Matrix: Water
Associated Lab Samples: 92692695001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/12/23 11:04	

LABORATORY CONTROL SAMPLE: 4172709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4172710

Parameter	Units	92692557001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	378	378	0	25	

SAMPLE DUPLICATE: 4172711

Parameter	Units	92692557006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3140	3150	0	25	

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

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

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

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

TNI - The NELAC Institute.

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupG
Pace Project No.: 92692695

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692695001	**100923NMW35S**	SM 2540C-2011	805798		

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

WO# : 92692695

92692695

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : : Of :

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Dominion Energy_VA	Report To	Crystal Shadle	Attention	
Address	1100 Boulders Parkway	Copy To	Catherine Pezzaro	Company Name	
Suite 503 Richmond, VA 23225		[illegible]		Address	Regulatory Agency
Email	[illegible]	Purchase Order #		Pace Quote	
Phone	(804) 534-1784 Fax	Project Name	CPS (CPS_2SA2023_LAP/UAP_GI	Pace Project Manager	State / Location
Requested Due Date	Standard TAT	Project #	3140G066,007	Pace Profile #: 13561	VA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test: Total Dissolved Solids (TDS)	N	Residual Chlorine (Y/N)	
1	1007 23NMW35S	WT	G	10/10/23	1345	-	-		1	X									X		✓	
2		WT	G			-	-														✓	
3		WT	G			-	-														✓	
4		WT	G			-	-														✓	
5		WT	G			-	-														✓	
6		WT	G			-	-														✓	
7		WT	G			-	-														✓	
8		WT	G			-	-														✓	
9		WT	G			-	-														✓	
10		WT	G			-	-														✓	
11		WT	G			-	-														✓	
12		WT	G			-	-														✓	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level II Data package	J.DAVIS/WSP	10-10-23	1440	[signature] PACE	10/10/23	1440				
All samples preserved on ice	[signature] PACE	10/10/23	1600	[signature]	10/11/23	11:15	1.5 1.5 2.3	Y	~	X

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Davis

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/10/23

COC ID CPS_2SA2023_CCR_GroupG_ 2_1

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt Effective Date: 05/12/2022

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy

Project #:

Courier: ☐ Commercial ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Other ____

Carrier Tracking Number: ____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Date/Initials Person Examining Contents:** 6/10/22

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 49582 **Type of Ice:** ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.5/2.3/1.9 **Correction Factor: Add / Subtract (°C)** 0

Corrected Cooler Temp (°C): 1.5/2.3/1.9

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6
Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☒ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5 6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☐ No

Lot ID of split containers:

Temp Log: Temp must be maintained at <6 C during login, record temp every 20 minutes.
Time opened: 1115 Temp:
Time: put in cooler
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: ____ Date/Time: ____

Project Manager SCURF Review: ____ Date: ____

Project Manager SRF Review: ____ Date: ____

Pace	DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
	Effective Date: 05/12/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX C

DATA VALIDATION FORMS

APPENDIX C.1

DATA VALIDATION FORMS

FIRST SEMI-ANNUAL GROUNDWATER MONITORING EVENT

(APRIL 2023)

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 4/10/2023 and 4/12/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92661769

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Based on QA review, qualification of data was not warranted.

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results

T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92661769

Lab Sample ID	92661769001
Sys Sample Code	041123NMWB31
Sample Name	041123NMWB31
Sample Date	4/11/2023 1:25:00 PM
Location	CPS-UAP-B-31 / B-31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	56.0				25.0	25.0	25.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661769

Lab Sample ID	92661769002
Sys Sample Code	041123NMWB32
Sample Name	041123NMWB32
Sample Date	4/11/2023 12:10:00 PM
Location	CPS-UAP-B-32 / B-32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1400				50.0	50.0	50.0	Y	Yes	1	NA

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 4/3/2023 and 4/12/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92662122

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041223NMW29U	MW-29U	N	SW-846 6010D	Selenium	T	4.7	J	RL	3.9	15.0		ug/L
041223NMW29U	MW-29U	N	SW-846 6020B	Cobalt	T	2.5	J	RL	0.25	5.0		ug/L
041223NMW29U	MW-29U	N	SW-846 6020B	Molybdenum	T	0.74	J	RL	0.63	5.0		ug/L
041223NMW35S	MW-35S	N	SW-846 6020B	Cobalt	T	0.12	J	RL	0.050	1.0		ug/L
041223NMW35S	MW-35S	N	SW-846 6020B	Molybdenum	T	0.13	J	RL	0.13	1.0		ug/L
041223NMW35S	MW-35S	N	SW-846 9056A	Fluoride	N	0.079	J	RL	0.050	0.10		mg/L
041223NMW29U	MW-29U	N	CALC	Combined Radium	N	1.91	J	BL			0.466	pCi/L
041223NMW29U	MW-29U	N	SW-846 9315	Radium-226	N	0.848	U	BL	0.848	0.848	0.329	pCi/L
041223NMW35S	MW-35S	N	CALC	Combined Radium	N	1.17	J	BL,Y			0.395	pCi/L
041223NMW35S	MW-35S	N	SW-846 9315	Radium-226	N	0.755	U	BL	0.755	0.755	0.315	pCi/L
041223NMW35S	MW-35S	N	SW-846 9320	RADIUM-228	N	0.420	J+	Y	0.418	0.418	0.239	pCi/L

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.

H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92662122

Lab Sample ID	92662122001
Sys Sample Code	041223NMW29U
Sample Name	041223NMW29U
Sample Date	4/12/2023 11:35:00 AM
Location	CPS-MW-29U / MW-29U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	358				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	348				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			12.4	12.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	54000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L	4.7	J	RL		3.9	3.9	15.0	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			1.0	1.0	5.0	N	Yes	5	NA
	Arsenic	7440-38-2	T	ug/L	13.7				0.43	0.43	5.0	Y	Yes	5	NA
	Cobalt	7440-48-4	T	ug/L	2.5	J	RL		0.25	0.25	5.0	Y	Yes	5	NA
	Lead	7439-92-1	T	ug/L		U			0.38	0.38	5.0	N	Yes	5	NA
	Lithium	7439-93-2	T	ug/L		U			2.5	2.5	12.5	N	Yes	5	NA
	Molybdenum	7439-98-7	T	ug/L	0.74	J	RL		0.63	0.63	5.0	Y	Yes	5	NA
	Thallium	7440-28-0	T	ug/L		U			0.25	0.25	1.0	N	Yes	5	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	13.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.17				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	1.1				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662122002
Sys Sample Code	041223NMW35S
Sample Name	041223NMW35S
Sample Date	4/12/2023 9:30:00 AM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	31.2				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			12.4	12.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	6000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.12	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	4.1				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.13	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	11.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.079	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	4.4				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92662122

Lab Sample ID	L1605781-01
Sys Sample Code	041223NMW29U
Sample Name	041223NMW29U
Sample Date	4/12/2023 11:35:00 AM
Location	CPS-MW-29U / MW-29U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.91	J	BL	0.466				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.848	U	BL	0.329	0.848	0.848	0.848	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.07			0.330	0.562	0.562	0.562	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662122

Lab Sample ID	L1605781-02
Sys Sample Code	041223NMW35S
Sample Name	041223NMW35S
Sample Date	4/12/2023 9:30:00 AM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.17	J	BL,Y	0.395				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.755	U	BL	0.315	0.755	0.755	0.755	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.420	J+	Y	0.239	0.418	0.418	0.418	Y	Y	1	NA

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 4/10/2023 and 4/12/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92662127

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Based on QA review, qualification of data was not warranted.

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results

T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92662127

Lab Sample ID	92662127001
Sys Sample Code	041223NMW35S
Sample Name	041223NMW35S
Sample Date	4/12/2023 9:30:00 AM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	99.0				25.0	25.0	25.0	Y	Yes	1	NA

ENVIRONMENTAL® STANDARDS
Montrose Environmental Group

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 4/3/2023 and 4/12/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92662485

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041123NMWB31	B-31	N	SW-846 6020B	Cobalt	T	0.10	J	RL	0.050	1.0		ug/L
041123NMWB31	B-31	N	SW-846 6020B	Lithium	T	1.1	J	RL	0.50	2.5		ug/L
041123NMWB31	B-31	N	SW-846 9056A	Fluoride	N	0.066	J	RL	0.050	0.10		mg/L
041123NMWB32	B-32	N	SW-846 6020B	Arsenic	T	0.27	J	RL	0.087	1.0		ug/L
041123NMWB32	B-32	N	SW-846 6020B	Lead	T	0.22	J	RL	0.077	1.0		ug/L
041123NMWB32	B-32	N	SW-846 6020B	Molybdenum	T	0.20	J	RL	0.13	1.0		ug/L
041223NMW9R	MW-9R	N	SW-846 6010D	Beryllium	T	0.17	J	RL	0.17	4.0		ug/L
041223NMW9R	MW-9R	N	SW-846 6010D	Cadmium	T	0.42	J	RL	0.33	1.0		ug/L
041223NMW9R	MW-9R	N	SW-846 6020B	Lithium	T	1.1	J	RL	0.50	2.5		ug/L
041223NMW9R	MW-9R	N	SW-846 6020B	Molybdenum	T	0.46	J	RL	0.13	1.0		ug/L
041223NMW13	MW-13	N	SW-846 6010D	Cadmium	T	0.82	J	RL	0.33	1.0		ug/L
041223NMW14	MW-14	N	SW-846 6010D	Boron	T	36.1	J	RL	12.4	50.0		ug/L
041223NMW14	MW-14	N	SW-846 6020B	Arsenic	T	0.14	J	RL	0.087	1.0		ug/L
041223NMW14	MW-14	N	SW-846 6020B	Cobalt	T	0.47	J	RL	0.050	1.0		ug/L
041223NMW14	MW-14	N	SW-846 6020B	Molybdenum	T	0.14	J	RL	0.13	1.0		ug/L
041223NMW14	MW-14	N	SW-846 9056A	Fluoride	N	0.097	J	RL	0.050	0.10		mg/L
041223NMW15	MW-15	N	SW-846 6020B	Lead	T	0.094	J	RL	0.077	1.0		ug/L
041223NMW15	MW-15	N	SW-846 6020B	Molybdenum	T	0.23	J	RL	0.13	1.0		ug/L
041223NMW15	MW-15	N	SW-846 6020B	Thallium	T	0.19	J	RL	0.050	0.20		ug/L
041223NMW15	MW-15	N	SW-846 9056A	Fluoride	N	0.089	J	RL	0.050	0.10		mg/L
041223NMW30U	MW-30U	N	SW-846 6020B	Cobalt	T	0.065	J	RL	0.050	1.0		ug/L
041223NMW35D	MW-35D	N	SW-846 6020B	Arsenic	T	0.090	J	RL	0.087	1.0		ug/L
041223NMW35D	MW-35D	N	SW-846 6020B	Cobalt	T	0.11	J	RL	0.050	1.0		ug/L
041223NMW35D	MW-35D	N	SW-846 6020B	Molybdenum	T	0.55	J	RL	0.13	1.0		ug/L
041223NFDUAP1	MW-15	FD	SW-846 6010D	Beryllium	T	0.17	J	RL	0.17	4.0		ug/L
041223NFDUAP1	MW-15	FD	SW-846 6020B	Molybdenum	T	0.16	J	RL	0.13	1.0		ug/L
041223NFDUAP1	MW-15	FD	SW-846 9056A	Fluoride	N	0.081	J	RL	0.050	0.10		mg/L
041323NMW1	MW-1	N	SW-846 6020B	Arsenic	T	0.22	J	RL	0.087	1.0		ug/L
041323NMW1	MW-1	N	SW-846 6020B	Molybdenum	T	0.41	J	RL	0.13	1.0		ug/L
041323NMW1D	MW-1D	N	SW-846 6010D	Beryllium	T	1.4	J	RL	0.17	4.0		ug/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041323NMW1D	MW-1D	N	SW-846 6020B	Arsenic	T	0.46	J	RL	0.087	1.0		ug/L
041323NMW1D	MW-1D	N	SW-846 6020B	Lead	T	0.66	J	RL	0.077	1.0		ug/L
041323NMW1D	MW-1D	N	SW-846 6020B	Molybdenum	T	0.25	J	RL	0.13	1.0		ug/L
041323NMW2	MW-2	N	SW-846 6010D	Beryllium	T	0.52	J	RL	0.17	4.0		ug/L
041323NMW2	MW-2	N	SW-846 6020B	Arsenic	T	0.39	J	RL	0.087	1.0		ug/L
041323NMW2	MW-2	N	SW-846 6020B	Lead	T	0.67	J	RL	0.077	1.0		ug/L
041323NMW3	MW-3	N	SW-846 6020B	Arsenic	T	0.37	J	RL	0.087	1.0		ug/L
041323NMW3	MW-3	N	SW-846 6020B	Thallium	T	0.17	J	RL	0.050	0.20		ug/L
041323NMW3D	MW-3D	N	SW-846 6020B	Arsenic	T	0.68	J	RL	0.087	1.0		ug/L
041323NMW3D	MW-3D	N	SW-846 6020B	Cobalt	T	0.059	J	RL	0.050	1.0		ug/L
041323NMW4	MW-4	N	SW-846 6020B	Arsenic	T	0.34	J	RL	0.087	1.0		ug/L
041323NMW4	MW-4	N	SW-846 6020B	Lead	T	0.18	J	RL	0.077	1.0		ug/L
041323NMW4	MW-4	N	SW-846 9056A	Fluoride	N	0.097	J	RL	0.050	0.10		mg/L
041323NMW5	MW-5	N	SW-846 6010D	Beryllium	T	0.24	J	RL	0.17	4.0		ug/L
041323NMW5	MW-5	N	SW-846 6020B	Arsenic	T	0.53	J	RL	0.087	1.0		ug/L
041323NMW5	MW-5	N	SW-846 6020B	Lead	T	0.083	J	RL	0.077	1.0		ug/L
041323NMW5	MW-5	N	SW-846 6020B	Thallium	T	0.075	J	RL	0.050	0.20		ug/L
041323NMW5	MW-5	N	SW-846 9056A	Fluoride	N	0.070	J	RL	0.050	0.10		mg/L
041323NMW6	MW-6	N	SW-846 6010D	Beryllium	T	0.19	J	RL	0.17	4.0		ug/L
041323NMW6	MW-6	N	SW-846 6020B	Arsenic	T	0.13	J	RL	0.087	1.0		ug/L
041323NMW6	MW-6	N	SW-846 6020B	Cobalt	T	0.33	J	RL	0.050	1.0		ug/L
041323NMW6	MW-6	N	SW-846 6020B	Molybdenum	T	0.18	J	RL	0.13	1.0		ug/L
041323NMW6	MW-6	N	SW-846 9056A	Fluoride	N	0.097	J	RL	0.050	0.10		mg/L
041323NMW6D	MW-6D	N	SW-846 6020B	Arsenic	T	0.52	J	RL	0.087	1.0		ug/L
041323NMW6D	MW-6D	N	SW-846 6020B	Lead	T	0.54	J	RL	0.077	1.0		ug/L
041323NMW6D	MW-6D	N	SW-846 6020B	Thallium	T	0.081	J	RL	0.050	0.20		ug/L
041323NMW10	MW-10	N	SW-846 6010D	Beryllium	T	0.20	J	RL	0.17	4.0		ug/L
041323NMW10	MW-10	N	SW-846 6010D	Cadmium	T	0.74	J	RL	0.33	1.0		ug/L
041323NMW10	MW-10	N	SW-846 6020B	Lithium	T	1.6	J	RL	0.50	2.5		ug/L
041323NMW11	MW-11	N	SW-846 6010D	Beryllium	T	0.17	J	RL	0.17	4.0		ug/L
041323NMW11	MW-11	N	SW-846 6010D	Cadmium	T	0.47	J	RL	0.33	1.0		ug/L
041323NMW11	MW-11	N	SW-846 6020B	Lithium	T	0.51	J	RL	0.50	2.5		ug/L
041323NMW12	MW-12	N	SW-846 6010D	Beryllium	T	0.19	J	RL	0.17	4.0		ug/L
041323NMW12	MW-12	N	SW-846 6010D	Cadmium	T	0.38	J	RL	0.33	1.0		ug/L
041323NMW12	MW-12	N	SW-846 6020B	Lead	T	0.32	J	RL	0.077	1.0		ug/L
041323NMW12	MW-12	N	SW-846 6020B	Lithium	T	0.80	J	RL	0.50	2.5		ug/L
041323NMW16D	MW-16D	N	SW-846 6020B	Arsenic	T	0.15	J	RL	0.087	1.0		ug/L
041323NMW16D	MW-16D	N	SW-846 6020B	Cobalt	T	0.43	J	RL	0.050	1.0		ug/L
041323NMW16D	MW-16D	N	SW-846 6020B	Molybdenum	T	0.27	J	RL	0.13	1.0		ug/L
041323NMW17S	MW-17S	N	SW-846 6010D	Beryllium	T	0.18	J	RL	0.17	4.0		ug/L
041323NMW17S	MW-17S	N	SW-846 6010D	Cadmium	T	0.60	J	RL	0.33	1.0		ug/L
041323NFDUAP2	MW-17S	FD	SW-846 6010D	Beryllium	T	0.18	J	RL	0.17	4.0		ug/L
041323NFDUAP2	MW-17S	FD	SW-846 6010D	Cadmium	T	0.45	J	RL	0.33	1.0		ug/L
041423NMW7	MW-7	N	SW-846 6010D	Boron	T	41.4	J	RL	12.4	50.0		ug/L
041423NMW7	MW-7	N	SW-846 6020B	Arsenic	T	0.70	J	RL	0.087	1.0		ug/L
041423NMW7	MW-7	N	SW-846 6020B	Molybdenum	T	0.34	J	RL	0.13	1.0		ug/L
041423NMW8R	MW-8R	N	SW-846 6010D	Beryllium	T	0.17	J	RL	0.17	4.0		ug/L
041423NMW8R	MW-8R	N	SW-846 6020B	Lead	T	0.12	J	RL	0.077	1.0		ug/L
041123NMWB31	B-31	N	CALC	Combined Radium	N	0.399	U	BF,BL,S			0.363	pCi/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041123NMWB31	B-31	N	SW-846 9315	Radium-226	N	0.376	U	BF,BL	0.376	0.376	0.203	pCi/L
041223NMW9R	MW-9R	N	CALC	Combined Radium	N	0.938	J	BF,BL			0.323	pCi/L
041223NMW9R	MW-9R	N	SW-846 9315	Radium-226	N	0.430	U	BF,BL	0.430	0.430	0.227	pCi/L
041223NMW13	MW-13	N	CALC	Combined Radium	N	1.55	J	BF,BL			0.397	pCi/L
041223NMW13	MW-13	N	SW-846 9315	Radium-226	N	0.535	U	BF,BL	0.535	0.535	0.250	pCi/L
041223NMW14	MW-14	N	CALC	Combined Radium	N	0.652	U	BF,BL,S			0.340	pCi/L
041223NMW14	MW-14	N	SW-846 9315	Radium-226	N	0.482	U	BF,BL	0.482	0.482	0.228	pCi/L
041223NMW16	MW-16	N	CALC	Combined Radium	N	3.12	J	BF,BL,Y			0.341	pCi/L
041223NMW16	MW-16	N	SW-846 9315	Radium-226	N	0.440	U	BF,BL	0.440	0.440	0.225	pCi/L
041223NMW16	MW-16	N	SW-846 9320	RADIUM-228	N	2.69	J+	Y	0.375	0.375	0.256	pCi/L
041223NMW30U	MW-30U	N	CALC	Combined Radium	N	1.74	J	BF,Y			0.403	pCi/L
041223NMW30U	MW-30U	N	SW-846 9315	Radium-226	N	0.697	U	BF	0.697	0.697	0.294	pCi/L
041223NMW30U	MW-30U	N	SW-846 9320	RADIUM-228	N	1.04	J+	Y	0.461	0.461	0.275	pCi/L
041223NMW35D	MW-35D	N	CALC	Combined Radium	N	0.375	U	BF,BL,S			0.324	pCi/L
041223NMW35D	MW-35D	N	SW-846 9315	Radium-226	N	0.375	U	BF,BL	0.375	0.375	0.202	pCi/L
041223NFDUAP1	MW-15	FD	CALC	Combined Radium	N	2.64	J	BF			0.393	pCi/L
041223NFDUAP1	MW-15	FD	SW-846 9315	Radium-226	N	0.916	U	BF	0.916	0.916	0.303	pCi/L
041323NMW1	MW-1	N	CALC	Combined Radium	N	6.00	J-	M			0.689	pCi/L
041323NMW1	MW-1	N	SW-846 9320	RADIUM-228	N	4.03	J-	M	0.646	0.646	0.416	pCi/L
041323NMW1D	MW-1D	N	CALC	Combined Radium	N	9.07	J	Y,M			0.824	pCi/L
041323NMW1D	MW-1D	N	SW-846 9320	RADIUM-228	N	4.76	J	Y,M	0.432	0.432	0.314	pCi/L
041323NMW2	MW-2	N	CALC	Combined Radium	N	8.72	J	Y,M			0.884	pCi/L
041323NMW2	MW-2	N	SW-846 9320	RADIUM-228	N	3.35	J	Y,M	0.464	0.464	0.313	pCi/L
041323NMW3	MW-3	N	CALC	Combined Radium	N	1.68	U	BF,BL,Y,M			0.477	pCi/L
041323NMW3	MW-3	N	SW-846 9315	Radium-226	N	0.939	U	BF	0.939	0.939	0.372	pCi/L
041323NMW3	MW-3	N	SW-846 9320	RADIUM-228	N	0.739	U	BL,Y,M	0.739	0.739	0.298	pCi/L
041323NMW3D	MW-3D	N	CALC	Combined Radium	N	0.238	UJ	M			0.360	pCi/L
041323NMW3D	MW-3D	N	SW-846 9320	RADIUM-228	N	0.136	UJ	M	0.485	0.485	0.268	pCi/L
041323NMW4	MW-4	N	CALC	Combined Radium	N	1.69	J	BF,M			0.673	pCi/L
041323NMW4	MW-4	N	SW-846 9315	Radium-226	N	0.694	U	BF	0.694	0.694	0.324	pCi/L
041323NMW4	MW-4	N	SW-846 9320	RADIUM-228	N	0.998	J-	M	0.802	0.802	0.590	pCi/L
041323NMW5	MW-5	N	CALC	Combined Radium	N	1.05	U	BF,M,S			0.686	pCi/L
041323NMW5	MW-5	N	SW-846 9315	Radium-226	N	0.741	U	BF	0.741	0.741	0.328	pCi/L
041323NMW5	MW-5	N	SW-846 9320	RADIUM-228	N	0.308	UJ	M	0.832	0.832	0.603	pCi/L
041323NMW6	MW-6	N	CALC	Combined Radium	N	1.08	U	BF,BL,M,S			0.717	pCi/L
041323NMW6	MW-6	N	SW-846 9315	Radium-226	N	0.550	U	BF,BL	0.550	0.550	0.301	pCi/L
041323NMW6	MW-6	N	SW-846 9320	RADIUM-228	N	0.527	UJ	M	0.895	0.895	0.651	pCi/L
041323NMW6D	MW-6D	N	CALC	Combined Radium	N	1.69	U	BF,M,S			0.846	pCi/L
041323NMW6D	MW-6D	N	SW-846 9315	Radium-226	N	0.869	U	BF	0.869	0.869	0.466	pCi/L
041323NMW6D	MW-6D	N	SW-846 9320	RADIUM-228	N	0.821	UJ	M	0.966	0.966	0.706	pCi/L
041323NMW10	MW-10	N	CALC	Combined Radium	N	0.492	U	BF,BL,M,S			0.727	pCi/L
041323NMW10	MW-10	N	SW-846 9315	Radium-226	N	0.338	U	BF,BL	0.338	0.338	0.248	pCi/L
041323NMW10	MW-10	N	SW-846 9320	RADIUM-228	N	0.154	UJ	M	0.953	0.953	0.683	pCi/L
041323NMW11	MW-11	N	CALC	Combined Radium	N	1.76	J	BF,Y,M			0.849	pCi/L
041323NMW11	MW-11	N	SW-846 9315	Radium-226	N	0.672	U	BF	0.672	0.672	0.314	pCi/L
041323NMW11	MW-11	N	SW-846 9320	RADIUM-228	N	1.08	J	Y,M	1.08	1.08	0.789	pCi/L
041323NMW12	MW-12	N	CALC	Combined Radium	N	0.408	U	BF,BL,M,S			0.559	pCi/L
041323NMW12	MW-12	N	SW-846 9315	Radium-226	N	0.408	U	BF,BL	0.408	0.408	0.267	pCi/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041323NMW12	MW-12	N	SW-846 9320	RADIUM-228	N	-0.193	UJ	M	0.696	0.696	0.491	pCi/L
041323NMW16D	MW-16D	N	CALC	Combined Radium	N	0.766	U	BF,BL,M,S			0.483	pCi/L
041323NMW16D	MW-16D	N	SW-846 9315	Radium-226	N	0.540	U	BF,BL	0.540	0.540	0.353	pCi/L
041323NMW16D	MW-16D	N	SW-846 9320	RADIUM-228	N	0.226	UJ	M	0.461	0.461	0.330	pCi/L
041323NMW17S	MW-17S	N	CALC	Combined Radium	N	2.92	J	BF,M,FD			0.577	pCi/L
041323NMW17S	MW-17S	N	SW-846 9315	Radium-226	N	0.900	U	BF	0.900	0.900	0.364	pCi/L
041323NMW17S	MW-17S	N	SW-846 9320	RADIUM-228	N	2.02	J	M,FD	0.582	0.582	0.448	pCi/L
041323FBUAP	Field Blank	FB	CALC	Combined Radium	N	0.573	J	S			0.438	pCi/L
041323NFDUAP2	MW-17S	FD	CALC	Combined Radium	N	1.12	U	BF,M,FD,S			0.574	pCi/L
041323NFDUAP2	MW-17S	FD	SW-846 9315	Radium-226	N	1.12	U	BF	1.12	1.12	0.410	pCi/L
041323NFDUAP2	MW-17S	FD	SW-846 9320	RADIUM-228	N	-0.537	UJ	M,FD	0.576	0.576	0.402	pCi/L
041423NMW7	MW-7	N	CALC	Combined Radium	N	1.85	J	BF,Y,M			0.632	pCi/L
041423NMW7	MW-7	N	SW-846 9315	Radium-226	N	0.878	U	BF	0.878	0.878	0.388	pCi/L
041423NMW7	MW-7	N	SW-846 9320	RADIUM-228	N	0.971	J	Y,M	0.674	0.674	0.499	pCi/L
041423NMW8R	MW-8R	N	CALC	Combined Radium	N	0.972	U	BF,M,S			0.622	pCi/L
041423NMW8R	MW-8R	N	SW-846 9315	Radium-226	N	0.645	U	BF	0.645	0.645	0.310	pCi/L
041423NMW8R	MW-8R	N	SW-846 9320	RADIUM-228	N	0.327	UJ	M	0.744	0.744	0.539	pCi/L

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits

ZZ	Other

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92661765001
Sys Sample Code	041123NMWB31
Sample Name	041123NMWB31
Sample Date	4/11/2023 1:25:00 PM
Location	CPS-UAP-B-31 / B-31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	13.8				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			12.4	12.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2970				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.10	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.1	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	3.3				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.066	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	5.8				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92661765002
Sys Sample Code	041123NMWB32
Sample Name	041123NMWB32
Sample Date	4/11/2023 12:10:00 PM
Location	CPS-UAP-B-32 / B-32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	38.2				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2530				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	235000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.27	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	5.9				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.22	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	6.8				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.20	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.28				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.23				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	105				6.6	6.6	11.0	Y	Yes	11	NA
	Sulfate	14808-79-8	N	mg/L	542				5.5	5.5	11.0	Y	Yes	11	NA

Lab Sample ID	92662061001
Sys Sample Code	041223NMW9R
Sample Name	041223NMW9R
Sample Date	4/12/2023 2:25:00 PM
Location	CPS-UAP-MW-09R / MW-9R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	268				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	127				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.17	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	189				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.42	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	41900				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	6.6				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.5				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.1	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.46	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	9.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.18				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	43.2				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662118001
Sys Sample Code	041223NMW13
Sample Name	041223NMW13
Sample Date	4/12/2023 10:05:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	2160				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	27.5				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	28.7				0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1850				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.82	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	255000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	6.9				1.7	1.7	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L	16.1				3.9	3.9	15.0	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	125				0.087	0.087	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	143				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	6.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.40				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Cobalt	7440-48-4	T	ug/L	380				0.25	0.25	5.0	Y	Yes	5	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	54.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.20				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	1190				11.0	11.0	22.0	Y	Yes	22	NA

Lab Sample ID	92662118002
Sys Sample Code	041223NMW14
Sample Name	041223NMW14
Sample Date	4/12/2023 11:10:00 AM
Location	CPS-UAP-MW-14 / MW-14
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	109				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	19.0				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	36.1	J	RL		12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7120				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.14	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.47	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.14	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	10.9				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	1.6				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.097	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	15.1				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662118003
Sys Sample Code	041223NMW15
Sample Name	041223NMW15
Sample Date	4/12/2023 12:15:00 PM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	641				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	51.4				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	466				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	81000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	40.8				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.094	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.23	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.19	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	22.6				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	80.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.089	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	233				2.0	2.0	4.0	Y	Yes	4	NA

Lab Sample ID	92662118004
Sys Sample Code	041223NMW16
Sample Name	041223NMW16
Sample Date	4/12/2023 1:00:00 PM
Location	CPS-UAP-MW-16 / MW-16
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	2620				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	31.4				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	4170				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	537000				950	950	2500	Y	Yes	5	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	26.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	11.5				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.54				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	149				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.38				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	377				10.8	10.8	18.0	Y	Yes	18	NA
	Sulfate	14808-79-8	N	mg/L	985				9.0	9.0	18.0	Y	Yes	18	NA

Lab Sample ID	92662118005
Sys Sample Code	041223NMW30U
Sample Name	041223NMW30U
Sample Date	4/12/2023 12:35:00 PM
Location	CPS-MW-30U / MW-30U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	159				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	70.3				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	130				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	8090				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.065	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	10.1				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	7.3				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.13				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92662118006
Sys Sample Code	041223NMW35D
Sample Name	041223NMW35D
Sample Date	4/12/2023 10:25:00 AM
Location	CPS-MW-35D / MW-35D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	150				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	36.6				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	105				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	8320				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.090	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.11	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.55	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	11.3				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	9.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.20				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	5.5				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662118007
Sys Sample Code	041223NFDUAP1
Sample Name	041223NFDUAP1
Sample Date	4/12/2023 12:20:00 PM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	FD
Matrix	GW
Parent Sample	041223NMW15

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	594				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	52.4				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.17	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	493				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	84300				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	39.8				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.16	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.20				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	22.1				0.50	0.50	2.5	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	81.3				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.081	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	231				2.0	2.0	4.0	Y	Yes	4	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662485001
Sys Sample Code	041323NMW1
Sample Name	041323NMW1
Sample Date	4/13/2023 10:40:00 AM
Location	CPS-UAP-MW-01 / MW-1
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1070				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	158				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	3020				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	173000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.22	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.41	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.19				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	182				2.4	2.4	4.0	Y	Yes	4	NA
	Sulfate	14808-79-8	N	mg/L	182				2.0	2.0	4.0	Y	Yes	4	NA

Lab Sample ID	92662485002
Sys Sample Code	041323NMW1D
Sample Name	041323NMW1D
Sample Date	4/13/2023 12:35:00 PM
Location	CPS-UAP-MW-01D / MW-1D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	176				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	28.1				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	1.4	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	61.0				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	13300				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.46	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	15.8				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.66	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	8.8				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.25	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.25				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	21.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.15				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	62.9				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662485003
Sys Sample Code	041323NMW2
Sample Name	041323NMW2
Sample Date	4/13/2023 12:50:00 PM
Location	CPS-UAP-MW-02 / MW-2
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	294				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	109				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.52	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1340				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	33600				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.39	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	13.1				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.67	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	5.2				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	17.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.19				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	98.7				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662485004
Sys Sample Code	041323NMW3
Sample Name	041323NMW3
Sample Date	4/13/2023 12:00:00 PM
Location	CPS-UAP-MW-03 / MW-3
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	318				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	151				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	862				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	70900				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.37	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	7.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	19.2				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	39.9				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.17	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	7.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	1.2				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	47.4				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662485005
Sys Sample Code	041323NMW3D
Sample Name	041323NMW3D
Sample Date	4/13/2023 11:30:00 AM
Location	CPS-UAP-MW-03D / MW-3D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	722				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	32.6				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2280				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7060				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.68	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.059	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	30.5				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	13.4				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	33.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.60				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	132				1.5	1.5	3.0	Y	Yes	3	NA

Lab Sample ID	92662485006
Sys Sample Code	041323NMW4
Sample Name	041323NMW4
Sample Date	4/13/2023 10:35:00 AM
Location	CPS-UAP-MW-04 / MW-4
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	709				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	19.0				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1770				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	82400				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.34	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	78.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.18	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	72.2				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.25				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	2.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.097	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	384				4.0	4.0	8.0	Y	Yes	8	NA

Lab Sample ID	92662485007
Sys Sample Code	041323NMW5
Sample Name	041323NMW5
Sample Date	4/13/2023 9:40:00 AM
Location	CPS-UAP-MW-05 / MW-5
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	908				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	14.0				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.24	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1530				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	103000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.53	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	26.1				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.083	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	47.4				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.075	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.7				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.070	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	547				6.0	6.0	12.0	Y	Yes	12	NA

Lab Sample ID	92662485008
Sys Sample Code	041323NMW6
Sample Name	041323NMW6
Sample Date	4/13/2023 2:35:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	930				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	28.8				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.19	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1450				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	66500				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.13	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.33	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	154				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.18	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.097	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	501				5.5	5.5	11.0	Y	Yes	11	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662485009
Sys Sample Code	041323NMW6D
Sample Name	041323NMW6D
Sample Date	4/13/2023 1:55:00 PM
Location	CPS-UAP-MW-06D / MW-6D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1260				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	22.6				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1960				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	85300				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.52	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	70.4				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.54	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	145				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.8				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.081	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.4				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.18				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	649				7.0	7.0	14.0	Y	Yes	14	NA

Lab Sample ID	92662485010
Sys Sample Code	041323NMW10
Sample Name	041323NMW10
Sample Date	4/13/2023 3:25:00 PM
Location	CPS-FFCPMF-MW-10 / MW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	313				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	187				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.20	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	265				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.74	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	42400				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	6.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	11.0				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.6	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	4.6				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	16.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.20				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	43.8				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662485011
Sys Sample Code	041323NMW11
Sample Name	041323NMW11
Sample Date	4/13/2023 1:20:00 PM
Location	CPS-UAP-MW-11 / MW-11
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	453				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	163				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.17	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1190				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.47	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	100000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	9.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.51	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.5				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	8.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.17				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	50.2				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662485012
Sys Sample Code	041323NMW12
Sample Name	041323NMW12
Sample Date	4/13/2023 11:50:00 AM
Location	CPS-FFCPMF-MW-12 / MW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	705				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	62.6				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.19	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1490				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.38	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	136000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	8.4				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	14.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.32	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.80	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	15.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.17				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	221				2.5	2.5	5.0	Y	Yes	5	NA

Lab Sample ID	92662485013
Sys Sample Code	041323NMW16D
Sample Name	041323NMW16D
Sample Date	4/13/2023 9:50:00 AM
Location	CPS-UAP-MW-16D / MW-16D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	314				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	21.6				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	340				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	44700				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.15	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.43	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	17.2				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.27	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	40.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.12				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	99.0				1.0	1.0	2.0	Y	Yes	2	NA

Lab Sample ID	92662485014
Sys Sample Code	041323NMW17S
Sample Name	041323NMW17S
Sample Date	4/13/2023 1:40:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	968				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	132				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.18	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2380				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.60	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	232000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	17.5				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	12.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	13.8				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.37				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	92.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.31				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	143				1.5	1.5	3.0	Y	Yes	3	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	92662485015
Sys Sample Code	041323FBUAP
Sample Name	041323FBUAP
Sample Date	4/13/2023 10:20:00 AM
Location	CPS-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			25.0	25.0	25.0	N	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L		U			0.84	0.84	10.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			12.4	12.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			190	190	500	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.050	0.050	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.60	0.60	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92662485016
Sys Sample Code	041323NFDUAP2
Sample Name	041323NFDUAP2
Sample Date	4/13/2023 1:45:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	FD
Matrix	GW
Parent Sample	041323NMW17S

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	970				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	135				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.18	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2420				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.45	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	236000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	16.8				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	12.8				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	13.7				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.36				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	92.6				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.32				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	143				1.5	1.5	3.0	Y	Yes	3	NA

Lab Sample ID	92662559001
Sys Sample Code	041423NMW7
Sample Name	041423NMW7
Sample Date	4/14/2023 1:20:00 PM
Location	CPS-UAP-MW-07 / MW-7
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	203				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	79.3				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.17	0.17	4.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	41.4	J	RL		12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.33	0.33	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	15000				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.70	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.0				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	10.6				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.34	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	9.7				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.15				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	57.9				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662559002
Sys Sample Code	041423NMW8R
Sample Name	041423NMW8R
Sample Date	4/14/2023 11:50:00 AM
Location	CPS-UAP-MW-08R / MW-8R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	585				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	227				0.84	0.84	10.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.17	J	RL		0.17	0.17	4.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1260				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	1.0				0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	90900				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.7	1.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			3.9	3.9	15.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	16.4				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.4				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.12	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	3.9				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	10.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.29				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	146				1.5	1.5	3.0	Y	Yes	3	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1605775-01
Sys Sample Code	041123NMWB31
Sample Name	041123NMWB31
Sample Date	4/11/2023 1:25:00 PM
Location	CPS-UAP-B-31 / B-31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.399	U	BF,BL,S	0.363				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.376	U	BF,BL	0.203	0.376	0.376	0.376	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.0229	U		0.301	0.537	0.537	0.537	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1605775-02
Sys Sample Code	041123NMWB32
Sample Name	041123NMWB32
Sample Date	4/11/2023 12:10:00 PM
Location	CPS-UAP-B-32 / B-32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	4.48			0.453				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.37			0.368	0.164	0.164	0.164	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.11			0.265	0.376	0.376	0.376	Y	Y	1	NA

Lab Sample ID	L1605775-03
Sys Sample Code	041223NMW9R
Sample Name	041223NMW9R
Sample Date	4/12/2023 2:25:00 PM
Location	CPS-UAP-MW-09R / MW-9R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.938	J	BF,BL	0.323				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.430	U	BF,BL	0.227	0.430	0.430	0.430	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.509			0.230	0.398	0.398	0.398	Y	Y	1	NA

Lab Sample ID	L1605775-04
Sys Sample Code	041223NMW13
Sample Name	041223NMW13
Sample Date	4/12/2023 10:05:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.55	J	BF,BL	0.397				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.535	U	BF,BL	0.250	0.535	0.535	0.535	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.01			0.308	0.524	0.524	0.524	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1605775-05
Sys Sample Code	041223NMW14
Sample Name	041223NMW14
Sample Date	4/12/2023 11:10:00 AM
Location	CPS-UAP-MW-14 / MW-14
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.652	U	BF,BL,S	0.340				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.482	U	BF,BL	0.228	0.482	0.482	0.482	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.170	U		0.252	0.448	0.448	0.448	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1605775-06
Sys Sample Code	041223NMW15
Sample Name	041223NMW15
Sample Date	4/12/2023 12:15:00 PM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.66			0.426				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.17			0.340	0.160	0.160	0.160	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.49			0.257	0.414	0.414	0.414	Y	Y	1	NA

Lab Sample ID	L1605775-07
Sys Sample Code	041223NMW16
Sample Name	041223NMW16
Sample Date	4/12/2023 1:00:00 PM
Location	CPS-UAP-MW-16 / MW-16
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	3.12	J	BF,BL,Y	0.341				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.440	U	BF,BL	0.225	0.440	0.440	0.440	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	2.69	J+	Y	0.256	0.375	0.375	0.375	Y	Y	1	NA

Lab Sample ID	L1605775-08
Sys Sample Code	041223NMW30U
Sample Name	041223NMW30U
Sample Date	4/12/2023 12:35:00 PM
Location	CPS-MW-30U / MW-30U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.74	J	BF,Y	0.403				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.697	U	BF	0.294	0.697	0.697	0.697	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.04	J+	Y	0.275	0.461	0.461	0.461	Y	Y	1	NA

Lab Sample ID	L1605775-09
Sys Sample Code	041223NMW35D
Sample Name	041223NMW35D
Sample Date	4/12/2023 10:25:00 AM
Location	CPS-MW-35D / MW-35D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.375	U	BF,BL,S	0.324				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.375	U	BF,BL	0.202	0.375	0.375	0.375	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.123	U		0.253	0.463	0.463	0.463	N	Y	1	NA

Lab Sample ID	L1605775-10
Sys Sample Code	041223NFDUAP1
Sample Name	041223NFDUAP1
Sample Date	4/12/2023 12:20:00 PM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	FD
Matrix	GW
Parent Sample	041223NMW15

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.64	J	BF	0.393				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.916	U	BF	0.303	0.916	0.916	0.916	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.72			0.251	0.394	0.394	0.394	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-01
Sys Sample Code	041323NMW1
Sample Name	041323NMW1
Sample Date	4/13/2023 10:40:00 AM
Location	CPS-UAP-MW-01 / MW-1
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	6.00	J-	M	0.689				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.97			0.549	0.403	0.403	0.403	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	4.03	J-	M	0.416	0.646	0.646	0.646	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-02
Sys Sample Code	041323NMW1D
Sample Name	041323NMW1D
Sample Date	4/13/2023 12:35:00 PM
Location	CPS-UAP-MW-01D / MW-1D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	9.07	J	Y,M	0.824				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	4.32			0.762	0.273	0.273	0.273	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	4.76	J	Y,M	0.314	0.432	0.432	0.432	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-03
Sys Sample Code	041323NMW2
Sample Name	041323NMW2
Sample Date	4/13/2023 12:50:00 PM
Location	CPS-UAP-MW-02 / MW-2
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	8.72	J	Y,M	0.884				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	5.37			0.827	0.251	0.251	0.251	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.35	J	Y,M	0.313	0.464	0.464	0.464	Y	Y	1	NA

Lab Sample ID	L1607413-04
Sys Sample Code	041323NMW3
Sample Name	041323NMW3
Sample Date	4/13/2023 12:00:00 PM
Location	CPS-UAP-MW-03 / MW-3
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.68	U	BF,BL,Y,M	0.477				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.939	U	BF	0.372	0.939	0.939	0.939	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.739	U	BL,Y,M	0.298	0.739	0.739	0.739	N	Y	1	NA

Lab Sample ID	L1607413-05
Sys Sample Code	041323NMW3D
Sample Name	041323NMW3D
Sample Date	4/13/2023 11:30:00 AM
Location	CPS-UAP-MW-03D / MW-3D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.238	UJ	M	0.360				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.102	U		0.240	0.403	0.403	0.403	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.136	UJ	M	0.268	0.485	0.485	0.485	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-06
Sys Sample Code	041323NMW4
Sample Name	041323NMW4
Sample Date	4/13/2023 10:35:00 AM
Location	CPS-UAP-MW-04 / MW-4
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.69	J	BF,M	0.673				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.694	U	BF	0.324	0.694	0.694	0.694	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.998	J-	M	0.590	0.802	0.802	0.802	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-07
Sys Sample Code	041323NMW5
Sample Name	041323NMW5
Sample Date	4/13/2023 9:40:00 AM
Location	CPS-UAP-MW-05 / MW-5
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.05	U	BF,M,S	0.686				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.741	U	BF	0.328	0.741	0.741	0.741	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.308	UJ	M	0.603	0.832	0.832	0.832	N	Y	1	NA

Lab Sample ID	L1607413-08
Sys Sample Code	041323NMW6
Sample Name	041323NMW6
Sample Date	4/13/2023 2:35:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.08	U	BF,BL,M,S	0.717				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.550	U	BF,BL	0.301	0.550	0.550	0.550	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.527	UJ	M	0.651	0.895	0.895	0.895	N	Y	1	NA

Lab Sample ID	L1607413-09
Sys Sample Code	041323NMW6D
Sample Name	041323NMW6D
Sample Date	4/13/2023 1:55:00 PM
Location	CPS-UAP-MW-06D / MW-6D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.69	U	BF,M,S	0.846				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.869	U	BF	0.466	0.869	0.869	0.869	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.821	UJ	M	0.706	0.966	0.966	0.966	N	Y	1	NA

Lab Sample ID	L1607413-10
Sys Sample Code	041323NMW10
Sample Name	041323NMW10
Sample Date	4/13/2023 3:25:00 PM
Location	CPS-FFCPMF-MW-10 / MW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.492	U	BF,BL,M,S	0.727				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.338	U	BF,BL	0.248	0.338	0.338	0.338	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.154	UJ	M	0.683	0.953	0.953	0.953	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-11
Sys Sample Code	041323NMW11
Sample Name	041323NMW11
Sample Date	4/13/2023 1:20:00 PM
Location	CPS-UAP-MW-11 / MW-11
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.76	J	BF,Y,M	0.849				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.672	U	BF	0.314	0.672	0.672	0.672	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.08	J	Y,M	0.789	1.08	1.08	1.08	Y	Y	1	NA

Lab Sample ID	L1607413-12
Sys Sample Code	041323NMW12
Sample Name	041323NMW12
Sample Date	4/13/2023 11:50:00 AM
Location	CPS-FFCPMF-MW-12 / MW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.408	U	BF,BL,M,S	0.559				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.408	U	BF,BL	0.267	0.408	0.408	0.408	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.193	UJ	M	0.491	0.696	0.696	0.696	N	Y	1	NA

Lab Sample ID	L1607413-13
Sys Sample Code	041323NMW16D
Sample Name	041323NMW16D
Sample Date	4/13/2023 9:50:00 AM
Location	CPS-UAP-MW-16D / MW-16D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.766	U	BF,BL,M,S	0.483				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.540	U	BF,BL	0.353	0.540	0.540	0.540	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.226	UJ	M	0.330	0.461	0.461	0.461	N	Y	1	NA

Lab Sample ID	L1607413-14
Sys Sample Code	041323NMW17S
Sample Name	041323NMW17S
Sample Date	4/13/2023 1:40:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.92	J	BF,M,FD	0.577				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.900	U	BF	0.364	0.900	0.900	0.900	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	2.02	J	M,FD	0.448	0.582	0.582	0.582	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-15
Sys Sample Code	041323FBUAP
Sample Name	041323FBUAP
Sample Date	4/13/2023 10:20:00 AM
Location	CPS-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.573	J	S	0.438				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.573			0.293	0.259	0.259	0.259	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.721	U		0.326	0.479	0.479	0.479	N	Y	1	NA

Lab Sample ID	L1607413-16
Sys Sample Code	041323NFDUAP2
Sample Name	041323NFDUAP2
Sample Date	4/13/2023 1:45:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	FD
Matrix	GW
Parent Sample	041323NMW17S

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.12	U	BF,M,FD,S	0.574				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.12	U	BF	0.410	1.12	1.12	1.12	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.537	UJ	M,FD	0.402	0.576	0.576	0.576	N	Y	1	NA

Lab Sample ID	L1607413-17
Sys Sample Code	041423NMW7
Sample Name	041423NMW7
Sample Date	4/14/2023 1:20:00 PM
Location	CPS-UAP-MW-07 / MW-7
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.85	J	BF,Y,M	0.632				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.878	U	BF	0.388	0.878	0.878	0.878	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.971	J	Y,M	0.499	0.674	0.674	0.674	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92662485

Lab Sample ID	L1607413-18
Sys Sample Code	041423NMW8R
Sample Name	041423NMW8R
Sample Date	4/14/2023 11:50:00 AM
Location	CPS-UAP-MW-08R / MW-8R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.972	U	BF,M,S	0.622				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.645	U	BF	0.310	0.645	0.645	0.645	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.327	UJ	M	0.539	0.744	0.744	0.744	N	Y	1	NA

APPENDIX C.2

DATA VALIDATION FORMS

FIRST SEMI-ANNUAL GROUNDWATER MONITORING VERIFICATION EVENT (AUGUST 2023)

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected: 8/3/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92681294

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Based on QA review, qualification of data was not warranted.

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results

T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92681294

Lab Sample ID	92681294001
Sys Sample Code	080323NMW13
Sample Name	080323NMW13
Sample Date	8/3/2023 11:40:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92681294

Lab Sample ID	92681294002
Sys Sample Code	080323NFBUAP
Sample Name	080323NFBUAP
Sample Date	8/3/2023 10:40:00 AM
Location	CPS-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA

Lab Sample ID	92681294003
Sys Sample Code	080323FDUAP1
Sample Name	080323FDUAP1
Sample Date	8/3/2023 11:45:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	FD
Matrix	GW
Parent Sample	080323NMW13

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA

APPENDIX C.3

DATA VALIDATION FORMS

SECOND SEMI-ANNUAL GROUNDWATER MONITORING EVENT

(OCTOBER 2023)

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 10/2/2023 and 10/13/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92692693

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
100923NMW35S	MW-35S	N	SW-846 6020B	Arsenic	T	0.38	J	RL	0.087	1.0		ug/L
100923NMW35S	MW-35S	N	SW-846 6020B	Cobalt	T	0.50	J	RL	0.050	1.0		ug/L
100923NMW35S	MW-35S	N	SW-846 6020B	Lead	T	0.61	J	RL	0.077	1.0		ug/L
100923NMW35S	MW-35S	N	SW-846 6020B	Molybdenum	T	0.74	J	RL	0.13	1.0		ug/L
100923NMW35S	MW-35S	N	SW-846 9056A	Fluoride	N	0.059	J	RL	0.050	0.10		mg/L
101123NMW29U	MW-29U	N	SW-846 6010D	Cadmium	T	0.86	J	RL	0.40	1.0		ug/L
101123NMW29U	MW-29U	N	SW-846 6020B	Lead	T	0.35	J	RL	0.077	1.0		ug/L
101123NMW29U	MW-29U	N	SW-846 6020B	Lithium	T	0.62	J	RL	0.50	2.5		ug/L
101123NMW29U	MW-29U	N	SW-846 6020B	Molybdenum	T	0.50	J	RL	0.13	1.0		ug/L
101123NMW29U	MW-29U	N	CALC	Combined Radium	N	0.933	U	BL,S			0.486	pCi/L
101123NMW29U	MW-29U	N	SW-846 9315	Radium-226	N	0.547	U	BL	0.547	0.547	0.275	pCi/L

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.

H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92692693

Lab Sample ID	92692693001
Sys Sample Code	100923NMW35S
Sample Name	100923NMW35S
Sample Date	10/9/2023 1:45:00 PM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	33.3				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	5650				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.38	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.50	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.61	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	3.6				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.74	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	12.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.059	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	4.9				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692693

Lab Sample ID	92692693002
Sys Sample Code	101123NMW29U
Sample Name	101123NMW29U
Sample Date	10/11/2023 10:55:00 AM
Location	CPS-MW-29U / MW-29U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	400				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	249				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.86	J	RL		0.40	0.40	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	44000				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	11.0				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.1				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.35	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.62	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.50	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	14.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.19				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692693

Lab Sample ID	L1668235-01
Sys Sample Code	100923NMW35S
Sample Name	100923NMW35S
Sample Date	10/9/2023 1:45:00 PM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.80			0.437				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.967			0.328	0.222	0.222	0.222	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.832			0.289	0.510	0.510	0.510	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692693

Lab Sample ID	L1668235-03
Sys Sample Code	101123NMW29U
Sample Name	101123NMW29U
Sample Date	10/11/2023 10:55:00 AM
Location	CPS-MW-29U / MW-29U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.933	U	BL,S	0.486				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.547	U	BL	0.275	0.547	0.547	0.547	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.385	U		0.401	0.728	0.728	0.728	N	Y	1	NA

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 10/2/2023 and 10/13/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92692277

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
100923NB31	MW-B31	N	SW-846 6020B	Arsenic	T	0.13	J	RL	0.087	1.0		ug/L
100923NB31	MW-B31	N	SW-846 6020B	Cobalt	T	0.35	J	RL	0.050	1.0		ug/L
100923NB31	MW-B31	N	SW-846 6020B	Lead	T	0.16	J	RL	0.077	1.0		ug/L
100923NB31	MW-B31	N	SW-846 6020B	Lithium	T	1.4	J	RL	0.50	2.5		ug/L
100923NB31	MW-B31	N	SW-846 6020B	Molybdenum	T	0.21	J	RL	0.13	1.0		ug/L
100923NB31	MW-B31	N	SW-846 9056A	Fluoride	N	0.055	J	RL	0.050	0.10		mg/L
101023NB32	MW-B32	N	SW-846 6020B	Arsenic	T	0.47	J	RL	0.087	1.0		ug/L
101023NB32	MW-B32	N	SW-846 6020B	Lead	T	0.19	J	RL	0.077	1.0		ug/L
101023NB32	MW-B32	N	SW-846 6020B	Molybdenum	T		U	BL	0.31	1.0		ug/L
101023NMW2	MW-2	N	SW-846 6010D	Chromium	T	4.8	J	RL	3.7	5.0		ug/L
101023NMW2	MW-2	N	SW-846 6020B	Molybdenum	T	0.13	J	RL	0.13	1.0		ug/L
101023NMW2	MW-2	N	SW-846 6020B	Thallium	T	0.051	J	RL	0.050	0.20		ug/L
101023NMW3	MW-3	N	SW-846 6020B	Arsenic	T	0.51	J	RL	0.087	1.0		ug/L
101023NMW3D	MW-3D	N	SW-846 6020B	Arsenic	T	0.76	J	RL	0.087	1.0		ug/L
101023NMW3D	MW-3D	N	SW-846 6020B	Cobalt	T	0.080	J	RL	0.050	1.0		ug/L
101023NMW3D	MW-3D	N	SW-846 6020B	Lead	T	0.13	J	RL	0.077	1.0		ug/L
101123NMW30U	MW-30U	N	SW-846 6020B	Arsenic	T	0.23	J	RL	0.087	1.0		ug/L
101123NMW16	MW-16	N	SM 2540C	Total Dissolved Solids	N	2650	J	ZZ	50.0	50.0		mg/L
101123NMW16	MW-16	N	SW-846 6020B	Arsenic	T	0.25	J	RL	0.087	1.0		ug/L
101123NMW1	MW-1	N	SW-846 6020B	Arsenic	T	0.92	J	RL	0.087	1.0		ug/L
101123NMW1	MW-1	N	SW-846 6020B	Lithium	T	0.52	J	RL	0.50	2.5		ug/L
101123NMW1	MW-1	N	SW-846 6020B	Molybdenum	T	0.36	J	RL	0.13	1.0		ug/L
101123NMW15	MW-15	N	SW-846 6020B	Arsenic	T	0.22	J	RL	0.087	1.0		ug/L
101123NMW15	MW-15	N	SW-846 6020B	Molybdenum	T	0.19	J	RL	0.13	1.0		ug/L
101123NMW15	MW-15	N	SW-846 9056A	Fluoride	N	0.060	J	RL	0.050	0.10		mg/L
101123FDUAP1	MW-15	FD	SW-846 6020B	Arsenic	T	0.22	J	RL	0.087	1.0		ug/L
101123FDUAP1	MW-15	FD	SW-846 6020B	Molybdenum	T	0.20	J	RL	0.13	1.0		ug/L
101123FDUAP1	MW-15	FD	SW-846 9056A	Fluoride	N	0.056	J	RL	0.050	0.10		mg/L
101123NMW1D	MW-1D	N	SW-846 6020B	Arsenic	T	0.88	J	RL	0.087	1.0		ug/L
101123NMW1D	MW-1D	N	SW-846 6020B	Molybdenum	T	0.27	J	RL	0.13	1.0		ug/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
101123NMW35D	MW-35D	N	SW-846 6020B	Arsenic	T	0.19	J	RL	0.087	1.0		ug/L
101123NMW35D	MW-35D	N	SW-846 6020B	Molybdenum	T	0.57	J	RL	0.13	1.0		ug/L
101123NMW4	MW-4	N	SW-846 6020B	Lead	T	0.57	J	RL	0.077	1.0		ug/L
101123NMW7	MW-7	N	SW-846 6010D	Boron	T	48.3	J	RL	32.4	50.0		ug/L
101123NMW7	MW-7	N	SW-846 6020B	Arsenic	T	0.65	J	RL	0.087	1.0		ug/L
101123NMW7	MW-7	N	SW-846 6020B	Molybdenum	T	0.37	J	RL	0.13	1.0		ug/L
101123NMW7	MW-7	N	SW-846 9056A	Fluoride	N	0.094	J	RL	0.050	0.10		mg/L
101123NMW8R	MW-8R	N	SW-846 6010D	Cadmium	T	0.41	J	RL	0.40	1.0		ug/L
101123NMW9R	MW-9R	N	SW-846 6020B	Lithium	T	1.0	J	RL	0.50	2.5		ug/L
101123NMW9R	MW-9R	N	SW-846 6020B	Molybdenum	T	0.39	J	RL	0.13	1.0		ug/L
101123NMW10	MW-10	N	SW-846 6020B	Lithium	T	1.3	J	RL	0.50	2.5		ug/L
101223NMW14	MW-14	N	SW-846 6020B	Arsenic	T	0.25	J	RL	0.087	1.0		ug/L
101223NMW14	MW-14	N	SW-846 6020B	Cobalt	T	0.20	J	RL	0.050	1.0		ug/L
101223NMW14	MW-14	N	SW-846 6020B	Lead	T	0.088	J	RL	0.077	1.0		ug/L
101223NMW14	MW-14	N	SW-846 6020B	Molybdenum	T	0.13	J	RL	0.13	1.0		ug/L
101223NMW14	MW-14	N	SW-846 9056A	Fluoride	N	0.071	J	RL	0.050	0.10		mg/L
101223NMW12	MW-12	N	SW-846 6020B	Lead	T	0.30	J	RL	0.077	1.0		ug/L
101223NMW12	MW-12	N	SW-846 6020B	Lithium	T	0.67	J	RL	0.50	2.5		ug/L
101223NMW12	MW-12	N	SW-846 9056A	Fluoride	N	0.092	J	RL	0.050	0.10		mg/L
101223NMW13	MW-13	N	SW-846 6010D	Chromium	T	4.6	J	RL	3.7	5.0		ug/L
101223NMW5	MW-5	N	SW-846 6020B	Arsenic	T	0.89	J	RL	0.087	1.0		ug/L
101223NMW5	MW-5	N	SW-846 6020B	Thallium	T	0.079	J	RL	0.050	0.20		ug/L
101223NMW6	MW-6	N	SW-846 6020B	Arsenic	T	0.088	J	RL	0.087	1.0		ug/L
101223NMW6	MW-6	N	SW-846 6020B	Cobalt	T	0.49	J	RL	0.050	1.0		ug/L
101223FDUAP2	MW-6	FD	SW-846 6020B	Arsenic	T	0.091	J	RL	0.087	1.0		ug/L
101223FDUAP2	MW-6	FD	SW-846 6020B	Cobalt	T	0.50	J	RL	0.050	1.0		ug/L
101223NMW16D	MW-16D	N	SW-846 6020B	Arsenic	T	0.11	J	RL	0.087	1.0		ug/L
101223NMW16D	MW-16D	N	SW-846 6020B	Cobalt	T	0.44	J	RL	0.050	1.0		ug/L
101223NMW16D	MW-16D	N	SW-846 6020B	Molybdenum	T	0.29	J	RL	0.13	1.0		ug/L
101223NMW16D	MW-16D	N	SW-846 9056A	Fluoride	N	0.099	J	RL	0.050	0.10		mg/L
101223NMW6D	MW-6D	N	SW-846 6010D	Cadmium	T	0.55	J	RL	0.40	1.0		ug/L
101223NMW6D	MW-6D	N	SW-846 6020B	Arsenic	T	0.51	J	RL	0.087	1.0		ug/L
101223NMW6D	MW-6D	N	SW-846 6020B	Lead	T	0.63	J	RL	0.077	1.0		ug/L
100923NB31	MW-B31	N	CALC	Combined Radium	N	1.08	J	BF,Y,M			0.344	pCi/L
100923NB31	MW-B31	N	SW-846 9320	RADIUM-228	N	0.554	U	BF,Y,M	0.554	0.554	0.223	pCi/L
101023NB32	MW-B32	N	CALC	Combined Radium	N	4.77	J-	M			0.486	pCi/L
101023NB32	MW-B32	N	SW-846 9320	RADIUM-228	N	3.33	J-	M	0.389	0.389	0.282	pCi/L
101023NMW2	MW-2	N	CALC	Combined Radium	N	14.7	J-	M			0.993	pCi/L
101023NMW2	MW-2	N	SW-846 9320	RADIUM-228	N	4.91	J-	M	0.495	0.495	0.354	pCi/L
101023NMW3	MW-3	N	CALC	Combined Radium	N	1.63	J	BF,Y,M			0.374	pCi/L
101023NMW3	MW-3	N	SW-846 9320	RADIUM-228	N	0.860	U	BF,Y,M	0.860	0.860	0.237	pCi/L
101023NMW3D	MW-3D	N	CALC	Combined Radium	N	1.30	J	BF,Y,M			0.408	pCi/L
101023NMW3D	MW-3D	N	SW-846 9320	RADIUM-228	N	0.474	U	BF,Y,M	0.474	0.474	0.252	pCi/L
101123NMW30U	MW-30U	N	CALC	Combined Radium	N	0.550	U	BL,LD,M,S			0.398	pCi/L
101123NMW30U	MW-30U	N	SW-846 9315	Radium-226	N	0.550	U	BL,LD	0.550	0.550	0.306	pCi/L
101123NMW30U	MW-30U	N	SW-846 9320	RADIUM-228	N	-0.0803	UJ	M	0.451	0.451	0.254	pCi/L
101123NMW16	MW-16	N	CALC	Combined Radium	N	3.86	J	LD,M			0.395	pCi/L
101123NMW16	MW-16	N	SW-846 9315	Radium-226	N	0.714	J	LD	0.214	0.214	0.295	pCi/L
101123NMW16	MW-16	N	SW-846 9320	RADIUM-228	N	3.15	J-	M	0.364	0.364	0.263	pCi/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
101123NMW1	MW-1	N	CALC	Combined Radium	N	8.05	J-	M			0.584	pCi/L
101123NMW1	MW-1	N	SW-846 9320	RADIUM-228	N	6.02	J-	M	0.438	0.438	0.356	pCi/L
101123NMW15	MW-15	N	CALC	Combined Radium	N	2.74	J	LD,M			0.410	pCi/L
101123NMW15	MW-15	N	SW-846 9315	Radium-226	N	0.892	J	LD	0.239	0.239	0.334	pCi/L
101123NMW15	MW-15	N	SW-846 9320	RADIUM-228	N	1.84	J-	M	0.358	0.358	0.238	pCi/L
101123FDUAP1	MW-15	FD	CALC	Combined Radium	N	2.84	J	LD,Y,M			0.457	pCi/L
101123FDUAP1	MW-15	FD	SW-846 9315	Radium-226	N	1.20	J	LD	0.275	0.275	0.382	pCi/L
101123FDUAP1	MW-15	FD	SW-846 9320	RADIUM-228	N	1.64	J	Y,M	0.389	0.389	0.250	pCi/L
101123NMW1D	MW-1D	N	CALC	Combined Radium	N	11.5	J	LD,M			0.773	pCi/L
101123NMW1D	MW-1D	N	SW-846 9315	Radium-226	N	5.69	J	LD	0.230	0.230	0.706	pCi/L
101123NMW1D	MW-1D	N	SW-846 9320	RADIUM-228	N	5.83	J-	M	0.383	0.383	0.316	pCi/L
101123NMW35D	MW-35D	N	CALC	Combined Radium	N	0.711	U	BL,LD,M,S			0.361	pCi/L
101123NMW35D	MW-35D	N	SW-846 9315	Radium-226	N	0.496	U	BL,LD	0.496	0.496	0.253	pCi/L
101123NMW35D	MW-35D	N	SW-846 9320	RADIUM-228	N	0.215	UJ	M	0.449	0.449	0.257	pCi/L
101123NMW17S	MW-17S	N	CALC	Combined Radium	N	5.17	J	LD,M			0.546	pCi/L
101123NMW17S	MW-17S	N	SW-846 9315	Radium-226	N	1.68	J	LD	0.237	0.237	0.442	pCi/L
101123NMW17S	MW-17S	N	SW-846 9320	RADIUM-228	N	3.50	J-	M	0.475	0.475	0.321	pCi/L
101123NMW4	MW-4	N	CALC	Combined Radium	N	3.89	J	LD,M			0.467	pCi/L
101123NMW4	MW-4	N	SW-846 9315	Radium-226	N	0.976	J	LD	0.281	0.281	0.356	pCi/L
101123NMW4	MW-4	N	SW-846 9320	RADIUM-228	N	2.92	J-	M	0.450	0.450	0.303	pCi/L
101123NMW7	MW-7	N	CALC	Combined Radium	N	1.62	J	BF,LD,M			0.477	pCi/L
101123NMW7	MW-7	N	SW-846 9315	Radium-226	N	1.00	J	LD	0.339	0.339	0.369	pCi/L
101123NMW7	MW-7	N	SW-846 9320	RADIUM-228	N	0.623	U	BF,M	0.623	0.623	0.302	pCi/L
101123NMW8R	MW-8R	N	CALC	Combined Radium	N	1.41	J	BF,LD			0.380	pCi/L
101123NMW8R	MW-8R	N	SW-846 9315	Radium-226	N	0.658	J	LD	0.230	0.230	0.285	pCi/L
101123NMW8R	MW-8R	N	SW-846 9320	RADIUM-228	N	0.748	U	BF	0.748	0.748	0.251	pCi/L
101123NMW9R	MW-9R	N	CALC	Combined Radium	N	1.16	U	BL,BF,LD			0.355	pCi/L
101123NMW9R	MW-9R	N	SW-846 9315	Radium-226	N	0.560	U	BL,LD	0.560	0.560	0.269	pCi/L
101123NMW9R	MW-9R	N	SW-846 9320	RADIUM-228	N	0.602	U	BF	0.602	0.602	0.232	pCi/L
101123NMW10	MW-10	N	CALC	Combined Radium	N	0.903	J	LD,S			0.416	pCi/L
101123NMW10	MW-10	N	SW-846 9315	Radium-226	N	0.903	J	LD	0.269	0.269	0.335	pCi/L
101223NMW14	MW-14	N	CALC	Combined Radium	N	0.585	U	BL,LD,M,S			0.373	pCi/L
101223NMW14	MW-14	N	SW-846 9315	Radium-226	N	0.548	U	BL,LD	0.548	0.548	0.294	pCi/L
101223NMW14	MW-14	N	SW-846 9320	RADIUM-228	N	0.0363	UJ	M	0.419	0.419	0.230	pCi/L
101223NMW12	MW-12	N	CALC	Combined Radium	N	1.36	J	S			0.662	pCi/L
101223NMW11	MW-11	N	CALC	Combined Radium	N	1.48	J	BF			0.420	pCi/L
101223NMW11	MW-11	N	SW-846 9320	RADIUM-228	N	0.581	U	BF	0.581	0.581	0.230	pCi/L
101223NMW6	MW-6	N	CALC	Combined Radium	N	2.02	J	FD			0.466	pCi/L
101223NMW6	MW-6	N	SW-846 9320	RADIUM-228	N	0.972	J	FD	0.411	0.411	0.249	pCi/L
101223FBUAP	Field Blank	FB	CALC	Combined Radium	N	0.617	J	Y,M,S			0.309	pCi/L
101223FBUAP	Field Blank	FB	SW-846 9320	RADIUM-228	N	0.485	J	Y,M	0.369	0.369	0.212	pCi/L
101223FDUAP2	MW-6	FD	CALC	Combined Radium	N	2.16	J	FD,M			0.419	pCi/L
101223FDUAP2	MW-6	FD	SW-846 9320	RADIUM-228	N	1.50	J	FD,M	0.473	0.473	0.288	pCi/L
101223NMW16D	MW-16D	N	CALC	Combined Radium	N	1.63	J-	M			0.422	pCi/L
101223NMW16D	MW-16D	N	SW-846 9320	RADIUM-228	N	1.04	J-	M	0.447	0.447	0.264	pCi/L
101223NMW6D	MW-6D	N	CALC	Combined Radium	N	3.18	J-	M			0.447	pCi/L
101223NMW6D	MW-6D	N	SW-846 9320	RADIUM-228	N	2.40	J-	M	0.448	0.448	0.285	pCi/L

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277001
Sys Sample Code	100923NB31
Sample Name	100923NB31
Sample Date	10/9/2023 1:10:00 PM
Location	CPS-UAP-B-31 / MW-B31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	13.4				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2710				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.13	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.35	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.16	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.4	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.21	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	3.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.055	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	5.7				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277002
Sys Sample Code	101023NB32
Sample Name	101023NB32
Sample Date	10/10/2023 11:55:00 AM
Location	CPS-UAP-B-32 / MW-B32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SW-846 6010D	Barium	7440-39-3	T	ug/L	38.3				0.79	0.79	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.16	0.16	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2400				4.0	4.0	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.29	0.29	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			0.63	0.63	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.1	4.1	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	3610				94.2	94.2	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.47	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	5.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.19	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	6.7				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U	BL		0.31	0.31	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.29				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	100				6.6	6.6	11.0	Y	Yes	11	NA
	Sulfate	14808-79-8	N	mg/L	531				5.5	5.5	11.0	Y	Yes	11	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.18				0.050	0.050	0.10	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277003
Sys Sample Code	101023NMW2
Sample Name	101023NMW2
Sample Date	10/10/2023 1:45:00 PM
Location	CPS-UAP-MW-02 / MW-2
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	298				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	136				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1410				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	32700				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	4.8	J	RL		3.7	3.7	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	1.2				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	14.5				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	1.6				0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	5.9				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.13	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.051	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	93.6				1.0	1.0	2.0	Y	Yes	2	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	18.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.13				0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277004
Sys Sample Code	101023NMW3
Sample Name	101023NMW3
Sample Date	10/10/2023 3:00:00 PM
Location	CPS-UAP-MW-03 / MW-3
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	337				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	167				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	879				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	72500				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.51	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	8.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	23.3				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	37.5				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.21				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	7.3				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.98				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	40.0				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277005
Sys Sample Code	101023NMW3D
Sample Name	101023NMW3D
Sample Date	10/10/2023 3:55:00 PM
Location	CPS-UAP-MW-03D / MW-3D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	697				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	32.5				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2410				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7610				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.76	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.080	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.13	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	33.9				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	12.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	127				1.5	1.5	3.0	Y	Yes	3	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	32.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.55				0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277006
Sys Sample Code	101123NMW30U
Sample Name	101123NMW30U
Sample Date	10/11/2023 9:15:00 AM
Location	CPS-MW-30U / MW-30U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	154				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	67.4				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	122				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7760				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.23	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.050	0.050	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	11.0				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	7.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92692277007
Sys Sample Code	101123NMW16
Sample Name	101123NMW16
Sample Date	10/11/2023 9:25:00 AM
Location	CPS-UAP-MW-16 / MW-16
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	2650	J	ZZ		50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	29.7				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	4220				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	440000				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.25	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	26.4				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	151				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	11.7				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.55				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	347				11.4	11.4	19.0	Y	Yes	19	NA
	Sulfate	14808-79-8	N	mg/L	958				9.5	9.5	19.0	Y	Yes	19	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.40				0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277008
Sys Sample Code	101123NMW1
Sample Name	101123NMW1
Sample Date	10/11/2023 9:25:00 AM
Location	CPS-UAP-MW-01 / MW-1
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	917				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	140				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	3490				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	147000				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.92	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.5				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.52	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.36	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	152				1.8	1.8	3.0	Y	Yes	3	NA
	Sulfate	14808-79-8	N	mg/L	162				1.5	1.5	3.0	Y	Yes	3	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.12				0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277009
Sys Sample Code	101123NMW15
Sample Name	101123NMW15
Sample Date	10/11/2023 10:40:00 AM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	600				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	42.3				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	435				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	73200				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.22	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	52.4				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	24.1				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.19	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.21				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	224				2.5	2.5	5.0	Y	Yes	5	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	93.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.060	J	RL		0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277010
Sys Sample Code	101123FDUAP1
Sample Name	101123FDUAP1
Sample Date	10/11/2023 10:45:00 AM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	FD
Matrix	GW
Parent Sample	101123NMW15

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	619				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	43.1				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	441				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	74600				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.22	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	51.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	23.7				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.20	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.21				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	227				2.5	2.5	5.0	Y	Yes	5	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	94.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.056	J	RL		0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277011
Sys Sample Code	101123NMW1D
Sample Name	101123NMW1D
Sample Date	10/11/2023 11:20:00 AM
Location	CPS-UAP-MW-01D / MW-1D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	187				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	26.3				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	1.3				0.70	0.70	1.0	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	9030				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.88	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	17.5				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	1.3				0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	9.3				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.27	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.28				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	20.3				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.12				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	66.5				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277012
Sys Sample Code	101123NMW35D
Sample Name	101123NMW35D
Sample Date	10/11/2023 12:25:00 PM
Location	CPS-MW-35D / MW-35D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	144				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	30.6				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	91.9				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7390				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.19	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.050	0.050	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	11.7				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.57	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	10.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.18				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	6.3				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277013
Sys Sample Code	101123NMW17S
Sample Name	101123NMW17S
Sample Date	10/11/2023 12:20:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	958				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	131				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2440				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	221000				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	24.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	11.9				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	12.8				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.40				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	97.6				1.8	1.8	3.0	Y	Yes	3	NA
	Sulfate	14808-79-8	N	mg/L	146				1.5	1.5	3.0	Y	Yes	3	NA
SW-846 9056A	Fluoride	16984-48-8	N	mg/L	0.25				0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692277014
Sys Sample Code	101123NMW4
Sample Name	101123NMW4
Sample Date	10/11/2023 12:30:00 PM
Location	CPS-UAP-MW-04 / MW-4
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	807				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	19.0				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1860				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	84900				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	1.2				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	92.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.57	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	86.3				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.28				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	435				4.5	4.5	9.0	Y	Yes	9	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	2.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277015
Sys Sample Code	101123NMW7
Sample Name	101123NMW7
Sample Date	10/11/2023 2:45:00 PM
Location	CPS-UAP-MW-07 / MW-7
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	196				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	86.9				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	48.3	J	RL		32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	15000				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.65	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	11.5				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.37	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	9.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.094	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	62.5				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277016
Sys Sample Code	101123NMW8R
Sample Name	101123NMW8R
Sample Date	10/11/2023 1:55:00 PM
Location	CPS-UAP-MW-08R / MW-8R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	566				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	221				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1160				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.41	J	RL		0.40	0.40	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	86500				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	13.9				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	3.7				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	10.4				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.22				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	127				1.5	1.5	3.0	Y	Yes	3	NA

Lab Sample ID	92692277017
Sys Sample Code	101123NMW9R
Sample Name	101123NMW9R
Sample Date	10/11/2023 2:05:00 PM
Location	CPS-UAP-MW-09R / MW-9R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	254				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	130				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	169				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	42000				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	5.7				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.0	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.39	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	9.4				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.13				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	36.9				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277018
Sys Sample Code	101123NMW10
Sample Name	101123NMW10
Sample Date	10/11/2023 4:15:00 PM
Location	CPS-UAP-MW-10 / MW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	288				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	191				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	264				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	42100				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	5.8				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	12.2				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.3	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	3.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	15.1				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	38.3				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277019
Sys Sample Code	101223NMW14
Sample Name	101223NMW14
Sample Date	10/12/2023 9:45:00 AM
Location	CPS-UAP-MW-14 / MW-14
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	82.0				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	9.4				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	3080				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.25	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.20	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.088	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	7.2				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.13	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	1.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.071	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.1				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277020
Sys Sample Code	101223NMW12
Sample Name	101223NMW12
Sample Date	10/12/2023 10:10:00 AM
Location	CPS-UAP-MW-12 / MW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	726				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	61.8				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1540				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	121000				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	8.4				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	14.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.30	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.67	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	14.4				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.092	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	212				2.5	2.5	5.0	Y	Yes	5	NA

Lab Sample ID	92692277021
Sys Sample Code	101223NMW13
Sample Name	101223NMW13
Sample Date	10/12/2023 11:30:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1920				50.0	50.0	50.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	25.2				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1790				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	5.0				0.40	0.40	1.0	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	4.6	J	RL		3.7	3.7	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	216000				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Cobalt	7440-48-4	T	ug/L	420				0.25	0.25	5.0	Y	Yes	5	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	92.7				0.087	0.087	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	127				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	4.1				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.41				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	50.7				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.14				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	946				10.5	10.5	21.0	Y	Yes	21	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	92692277022
Sys Sample Code	101223NMW11
Sample Name	101223NMW11
Sample Date	10/12/2023 11:35:00 AM
Location	CPS-UAP-MW-11 / MW-11
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	449				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	162				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1190				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	98200				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	9.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.6				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.4				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	8.9				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	45.5				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692277023
Sys Sample Code	101223NMW5
Sample Name	101223NMW5
Sample Date	10/12/2023 1:05:00 PM
Location	CPS-UAP-MW-05 / MW-5
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	961				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	14.4				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1620				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	97800				942	942	1000	Y	Yes	10	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.89	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	27.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	48.0				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.079	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	528				6.0	6.0	12.0	Y	Yes	12	NA

Lab Sample ID	92692277024
Sys Sample Code	101223NMW6
Sample Name	101223NMW6
Sample Date	10/12/2023 1:15:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	969				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	28.9				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1580				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	73900				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.088	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.49	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	165				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	485				5.5	5.5	11.0	Y	Yes	11	NA

Lab Sample ID	92692277025
Sys Sample Code	101223FBUAP
Sample Name	101223FBUAP
Sample Date	10/12/2023 12:15:00 PM
Location	CPS-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			25.0	25.0	25.0	N	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L		U			3.5	3.5	5.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			32.4	32.4	50.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			94.2	94.2	100	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.087	0.087	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.050	0.050	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.60	0.60	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92692277026
Sys Sample Code	101223FDUAP2
Sample Name	101223FDUAP2
Sample Date	10/12/2023 1:25:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	FD
Matrix	GW
Parent Sample	101223NMW6

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	977				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	28.6				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	1560				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	73200				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.091	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.50	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	163				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.050	0.050	0.10	N	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	477				5.5	5.5	11.0	Y	Yes	11	NA

Lab Sample ID	92692277027
Sys Sample Code	101223NMW16D
Sample Name	101223NMW16D
Sample Date	10/12/2023 2:35:00 PM
Location	CPS-UAP-MW-16D / MW-16D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	314				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	20.7				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	280				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.40	0.40	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	35500				94.2	94.2	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.11	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.44	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	17.3				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	0.29	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.050	0.050	0.20	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	38.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.099	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	95.4				1.0	1.0	2.0	Y	Yes	2	NA

Lab Sample ID	92692277028
Sys Sample Code	101223NMW6D
Sample Name	101223NMW6D
Sample Date	10/12/2023 3:35:00 PM
Location	CPS-UAP-MW-06D / MW-6D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1190				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	21.6				3.5	3.5	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.70	0.70	1.0	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L	2020				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.55	J	RL		0.40	0.40	1.0	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			3.7	3.7	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			4.7	4.7	10.0	N	Yes	1	NA
SW-846 6010D	Calcium	7440-70-2	T	ug/L	71800				471	471	500	Y	Yes	5	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.51	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	142				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.63	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.5				0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.20				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L	199				1.0	1.0	5.0	Y	Yes	2	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.12	0.12	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.8				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.12				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	659				7.0	7.0	14.0	Y	Yes	14	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-01
Sys Sample Code	100923NB31
Sample Name	100923NB31
Sample Date	10/9/2023 1:10:00 PM
Location	CPS-UAP-B-31 / MW-B31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.08	J	BF,Y,M	0.344				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.522			0.262	0.281	0.281	0.281	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.554	U	BF,Y,M	0.223	0.554	0.554	0.554	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-02
Sys Sample Code	101023NB32
Sample Name	101023NB32
Sample Date	10/10/2023 11:55:00 AM
Location	CPS-UAP-B-32 / MW-B32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	4.77	J-	M	0.486				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.44			0.396	0.257	0.257	0.257	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.33	J-	M	0.282	0.389	0.389	0.389	Y	Y	1	NA

Lab Sample ID	L1668230-03
Sys Sample Code	101023NMW2
Sample Name	101023NMW2
Sample Date	10/10/2023 1:45:00 PM
Location	CPS-UAP-MW-02 / MW-2
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	14.7	J-	M	0.993				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	9.81			0.928	0.199	0.199	0.199	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	4.91	J-	M	0.354	0.495	0.495	0.495	Y	Y	1	NA

Lab Sample ID	L1668230-04
Sys Sample Code	101023NMW3
Sample Name	101023NMW3
Sample Date	10/10/2023 3:00:00 PM
Location	CPS-UAP-MW-03 / MW-3
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.63	J	BF,Y,M	0.374				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.773			0.289	0.211	0.211	0.211	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.860	U	BF,Y,M	0.237	0.860	0.860	0.860	N	Y	1	NA

Lab Sample ID	L1668230-05
Sys Sample Code	101023NMW3D
Sample Name	101023NMW3D
Sample Date	10/10/2023 3:55:00 PM
Location	CPS-UAP-MW-03D / MW-3D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.30	J	BF,Y,M	0.408				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.829			0.321	0.291	0.291	0.291	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.474	U	BF,Y,M	0.252	0.474	0.474	0.474	N	Y	1	NA

Lab Sample ID	L1668230-06
Sys Sample Code	101123NMW30U
Sample Name	101123NMW30U
Sample Date	10/11/2023 9:15:00 AM
Location	CPS-MW-30U / MW-30U
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.550	U	BL,LD,M,S	0.398				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.550	U	BL,LD	0.306	0.550	0.550	0.550	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.0803	UJ	M	0.254	0.451	0.451	0.451	N	Y	1	NA

Lab Sample ID	L1668230-07
Sys Sample Code	101123NMW16
Sample Name	101123NMW16
Sample Date	10/11/2023 9:25:00 AM
Location	CPS-UAP-MW-16 / MW-16
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	3.86	J	LD,M	0.395				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.714	J	LD	0.295	0.214	0.214	0.214	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.15	J-	M	0.263	0.364	0.364	0.364	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-08
Sys Sample Code	101123NMW1
Sample Name	101123NMW1
Sample Date	10/11/2023 9:25:00 AM
Location	CPS-UAP-MW-01 / MW-1
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	8.05	J-	M	0.584				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	2.04			0.463	0.255	0.255	0.255	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	6.02	J-	M	0.356	0.438	0.438	0.438	Y	Y	1	NA

Lab Sample ID	L1668230-09
Sys Sample Code	101123NMW15
Sample Name	101123NMW15
Sample Date	10/11/2023 10:40:00 AM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.74	J	LD,M	0.410				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.892	J	LD	0.334	0.239	0.239	0.239	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.84	J-	M	0.238	0.358	0.358	0.358	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-10
Sys Sample Code	101123FDUAP1
Sample Name	101123FDUAP1
Sample Date	10/11/2023 10:45:00 AM
Location	CPS-UAP-MW-15 / MW-15
Sample Type	FD
Matrix	GW
Parent Sample	101123NMW15

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.84	J	LD,Y,M	0.457				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.20	J	LD	0.382	0.275	0.275	0.275	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.64	J	Y,M	0.250	0.389	0.389	0.389	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-11
Sys Sample Code	101123NMW1D
Sample Name	101123NMW1D
Sample Date	10/11/2023 11:20:00 AM
Location	CPS-UAP-MW-01D / MW-1D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	11.5	J	LD,M	0.773				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	5.69	J	LD	0.706	0.230	0.230	0.230	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	5.83	J-	M	0.316	0.383	0.383	0.383	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-12
Sys Sample Code	101123NMW35D
Sample Name	101123NMW35D
Sample Date	10/11/2023 12:25:00 PM
Location	CPS-MW-35D / MW-35D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.711	U	BL,LD,M,S	0.361				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.496	U	BL,LD	0.253	0.496	0.496	0.496	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.215	UJ	M	0.257	0.449	0.449	0.449	N	Y	1	NA

Lab Sample ID	L1668230-13
Sys Sample Code	101123NMW17S
Sample Name	101123NMW17S
Sample Date	10/11/2023 12:20:00 PM
Location	CPS-UAP-MW-17S / MW-17S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	5.17	J	LD,M	0.546				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.68	J	LD	0.442	0.237	0.237	0.237	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.50	J-	M	0.321	0.475	0.475	0.475	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-14
Sys Sample Code	101123NMW4
Sample Name	101123NMW4
Sample Date	10/11/2023 12:30:00 PM
Location	CPS-UAP-MW-04 / MW-4
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	3.89	J	LD,M	0.467				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.976	J	LD	0.356	0.281	0.281	0.281	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	2.92	J-	M	0.303	0.450	0.450	0.450	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-15
Sys Sample Code	101123NMW7
Sample Name	101123NMW7
Sample Date	10/11/2023 2:45:00 PM
Location	CPS-UAP-MW-07 / MW-7
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.62	J	BF,LD,M	0.477				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.00	J	LD	0.369	0.339	0.339	0.339	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.623	U	BF,M	0.302	0.623	0.623	0.623	N	Y	1	NA

Lab Sample ID	L1668230-16
Sys Sample Code	101123NMW8R
Sample Name	101123NMW8R
Sample Date	10/11/2023 1:55:00 PM
Location	CPS-UAP-MW-08R / MW-8R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.41	J	BF,LD	0.380				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.658	J	LD	0.285	0.230	0.230	0.230	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.748	U	BF	0.251	0.748	0.748	0.748	N	Y	1	NA

Lab Sample ID	L1668230-17
Sys Sample Code	101123NMW9R
Sample Name	101123NMW9R
Sample Date	10/11/2023 2:05:00 PM
Location	CPS-UAP-MW-09R / MW-9R
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.16	U	BL,BF,LD	0.355				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.560	U	BL,LD	0.269	0.560	0.560	0.560	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.602	U	BF	0.232	0.602	0.602	0.602	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-18
Sys Sample Code	101123NMW10
Sample Name	101123NMW10
Sample Date	10/11/2023 4:15:00 PM
Location	CPS-UAP-MW-10 / MW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.903	J	LD,S	0.416				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.903	J	LD	0.335	0.269	0.269	0.269	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.145	U		0.246	0.445	0.445	0.445	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-19
Sys Sample Code	101223NMW14
Sample Name	101223NMW14
Sample Date	10/12/2023 9:45:00 AM
Location	CPS-UAP-MW-14 / MW-14
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.585	U	BL,LD,M,S	0.373				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.548	U	BL,LD	0.294	0.548	0.548	0.548	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.0363	UJ	M	0.230	0.419	0.419	0.419	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-20
Sys Sample Code	101223NMW12
Sample Name	101223NMW12
Sample Date	10/12/2023 10:10:00 AM
Location	CPS-UAP-MW-12 / MW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.36	J	S	0.662				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.23			0.627	0.489	0.489	0.489	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.129	U		0.213	0.378	0.378	0.378	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-21
Sys Sample Code	101223NMW13
Sample Name	101223NMW13
Sample Date	10/12/2023 11:30:00 AM
Location	CPS-UAP-MW-13 / MW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.46			0.395				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.533			0.320	0.342	0.342	0.342	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.926			0.232	0.382	0.382	0.382	Y	Y	1	NA

Lab Sample ID	L1668230-22
Sys Sample Code	101223NMW11
Sample Name	101223NMW11
Sample Date	10/12/2023 11:35:00 AM
Location	CPS-UAP-MW-11 / MW-11
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.48	J	BF	0.420				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.900			0.352	0.197	0.197	0.197	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.581	U	BF	0.230	0.581	0.581	0.581	N	Y	1	NA

Lab Sample ID	L1668230-23
Sys Sample Code	101223NMW5
Sample Name	101223NMW5
Sample Date	10/12/2023 1:05:00 PM
Location	CPS-UAP-MW-05 / MW-5
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	4.35			0.509				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.927			0.389	0.350	0.350	0.350	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.42			0.328	0.467	0.467	0.467	Y	Y	1	NA

Lab Sample ID	L1668230-24
Sys Sample Code	101223NMW6
Sample Name	101223NMW6
Sample Date	10/12/2023 1:15:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.02	J	FD	0.466				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.05			0.394	0.269	0.269	0.269	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.972	J	FD	0.249	0.411	0.411	0.411	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-25
Sys Sample Code	101223FBUAP
Sample Name	101223FBUAP
Sample Date	10/12/2023 12:15:00 PM
Location	CPS-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	0.617	J	Y,M,S	0.309				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.133	U		0.225	0.356	0.356	0.356	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.485	J	Y,M	0.212	0.369	0.369	0.369	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-26
Sys Sample Code	101223FDUAP2
Sample Name	101223FDUAP2
Sample Date	10/12/2023 1:25:00 PM
Location	CPS-UAP-MW-06 / MW-6
Sample Type	FD
Matrix	GW
Parent Sample	101223NMW6

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	2.16	J	FD,M	0.419				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.664			0.305	0.200	0.200	0.200	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.50	J	FD,M	0.288	0.473	0.473	0.473	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-27
Sys Sample Code	101223NMW16D
Sample Name	101223NMW16D
Sample Date	10/12/2023 2:35:00 PM
Location	CPS-UAP-MW-16D / MW-16D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	1.63	J-	M	0.422				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.593			0.329	0.354	0.354	0.354	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.04	J-	M	0.264	0.447	0.447	0.447	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692277

Lab Sample ID	L1668230-28
Sys Sample Code	101223NMW6D
Sample Name	101223NMW6D
Sample Date	10/12/2023 3:35:00 PM
Location	CPS-UAP-MW-06D / MW-6D
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Combined Radium	RA226/228	N	pCi/L	3.18	J-	M	0.447				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.777			0.344	0.271	0.271	0.271	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	2.40	J-	M	0.285	0.448	0.448	0.448	Y	Y	1	NA

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 10/2/2023 and 10/13/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92692278

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Based on QA review, qualification of data was not warranted.

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results

T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92692278

Lab Sample ID	92692278001
Sys Sample Code	100923NMWB31
Sample Name	100923NMWB31
Sample Date	10/9/2023 1:10:00 PM
Location	CPS-UAP-B-31 / MW-B31
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	67.0				25.0	25.0	25.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692278

Lab Sample ID	92692278002
Sys Sample Code	101023NMWB32
Sample Name	101023NMWB32
Sample Date	10/10/2023 11:55:00 AM
Location	CPS-UAP-B-32 / MW-B32
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1330				50.0	50.0	50.0	Y	Yes	1	NA

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

Chesterfield Power Station Groundwater Sampling
Samples Collected between: 10/2/2023 and 10/13/2023

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

92692695

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Based on QA review, qualification of data was not warranted.

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results

T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Facility: Chesterfield Power Station
SDG: 92692695

Lab Sample ID	92692695001
Sys Sample Code	100923NMW35S
Sample Name	100923NMW35S
Sample Date	10/9/2023 1:45:00 PM
Location	CPS-MW-35S / MW-35S
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	114				25.0	25.0	25.0	Y	Yes	1	NA



wsp.com