2023 CCR Annual Groundwater Monitoring and Corrective Action

Chesterfield Power Station, Lower Ash Pond

Prepared for:



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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 Lower Ash Pond (Unit) at the Chesterfield Power Station (Station). Historically, the Station 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; Environmental Protection Agency [EPA], 2015, 2016, 2018, 2020a, 2020b), 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 (VAC) Agency 20, Chapter 81, section 800 *et seq.* (9VAC20-81-800)]. Pursuant to the CCR Rule, the Station operator is required to complete an *Annual Groundwater Monitoring and Corrective Action Report* (Report) for the Unit 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 §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 §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

- In 2023, there were statistically significant increases over background identified for the following Appendix III constituents at the following wells during the second semi-annual 2022 and first semiannual 2023 events:

- Boron – MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-33R, MW-34, MW-36S, MW-B50
- Calcium – MW-28, MW-B50
- Chloride – MW-21R, MW-27, MW-34, MW-36S, MW-B50
- Fluoride – MW-23R, MW-25, MW-28
- pH – MW-28
- Sulfate – MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-32SR, MW-B50
- Total dissolved solids – MW-B50

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

- The AMP was initiated for the Unit on March 23, 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

- In 2023, there were statistically significant increases over the federal groundwater protection standards (GWPS) identified for the following Appendix IV constituents at the following wells for the 2022 second semi-annual event and the 2023 first semi-annual event:

  - Arsenic – MW-28
  - Cobalt – MW-20, MW-21R, MW-22R, MW-27, MW-36S
  - Radium 226 and 228 (combined) – MW-27

- In 2023, there were statistically significant increases over the Virginia CCR groundwater protection standards (Virginia CCR Rule GWPS) identified for the following additional Appendix IV constituents at the following wells for the 2022 second semi-annual event and the 2023 first semi-annual event:

  - Arsenic – MW-28
  - Cobalt – MW-20, MW-21R, MW-22R, MW-27, MW-36S
  - Molybdenum – MW-28
  - Radium 226 and 228 (combined) – MW-27

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

- Dominion Energy initiated an assessment of corrective measures (ACM) for the Unit on December 18, 2018.

(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

- Dominion Energy completed the ACM measures 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 7, 2023. These results are being evaluated against applicable background concentrations and GWPS 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.

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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 d/b/a Dominion Energy Virginia (Dominion Energy) for the Lower Ash Pond (Unit) at the Chesterfield Power Station (Station) 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 (VAC) Agency 20, Chapter 81, section 800 *et seq.* (9VAC20-81-800; VWMB, 2019)]. Pursuant to the CCR Rule, no later than January 31st annually, the owner or operator of a CCR Unit 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 events performed in April 2023, and provides the monitoring data for the second semi-annual 2023 CCR monitoring compliance events 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 Figure 1.

1.2 Site History

Virginia Electric and Power Company acquired the Unit property in 1959. The Unit, a former borrow area, was commissioned in 1964 by constructing dikes on its east, south, and west sides. The western, southern, and eastern dikes were raised approximately 5 feet in the late 1960s. The Unit stopped accepting newly generated CCR in November 2017 and is currently covered with a synthetic rain cover. The Unit is subject to the groundwater monitoring requirements of the CCR Rule.

1.3 Key Actions

Key actions for this Unit are as follows:

- Initiated the CCR Detection Monitoring Program (DMP) in October 2016, with the collection of eight (8) baseline/background samples and completed the background monitoring activities in August 2017, pursuant to the CCR Rule [257.94(b)];

- Conducted the initial DMP compliance sampling event on September 12-14, 2017, and completed the sample analyses on September 26, 2017 (revised data package received on February 27, 2018), 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 in April 2021 (Revision 2) following installation of replacement wells as part of the Unit 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 December 25, 2017;
- Conducted the initial assessment monitoring program (AMP) compliance sampling event on February 57, 2018, and completed the sample analyses on March 9, 2018 (revised data package received on March 23, 2018), pursuant to the CCR Rule [257.95(b)];
- Established groundwater protection standards (GWPS) for detected constituents in Appendix IV of §257 on September 19, 2018, pursuant to the CCR Rule [257.95(d)(2)];
- Notification of GWPS exceedances placed in the Station's operating record on October 19, 2018 (revised November 4, 2018);
- Placed an Assessment of Corrective Measures (ACM) Initiation Notification in the Unit's operating record on January 17, 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;
- Re-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 March 29, 2021, pursuant to the CCR Rule [257.105(h)(3)] following installation of replacement wells;
- Re-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 March 31, 2023, pursuant to the CCR Rule [257.105(h)(3)] following installation of replacement wells;
- Conducted the first semi-annual 2023 AMP compliance sampling event on April 10-14, 2023, and completed the sample analyses on June 26, 2023, pursuant to the CCR Rule [257.95(d)(1)];

- Notification of 2022 second semi-annual federal GWPS and Virginia CCR Rule GWPS exceedances placed on the Unit's operating record on April 13, 2023;
- Placed a copy of the Semi-Annual Remedy Selection Progress Report No. 8 in the Unit's operating record on April 24, 2023.
- Conducted the second semi-annual 2023 AMP compliance sampling event on October 9-13, 2023, and completed the sample analyses on December 7, 2023, pursuant to the CCR Rule [257.95(d)(1)];
- Notification of 2023 first semi-annual federal GWPS and Virginia CCR Rule GWPS exceedances placed on the Unit's operating record on October 20, 2023; and
- Placed a copy of the Semi-Annual Remedy Selection Progress Report No. 9 in the Unit's operating record on October 20, 2023.

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 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 operated the Unit for CCR storage as an existing CCR impoundment under the CCR Rule. 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 requires Dominion Energy to close the Unit by removal of all CCR. The Unit is currently covered with a synthetic rain cover and is being prepared for closure by removal.

2.1 Monitoring Well Network

The Unit's GMP (Golder, 2021) details the design of the Unit's CCR Rule groundwater monitoring network. As presented in the GMP, the monitoring network is comprised of two (2) upgradient/background wells (MW-29U and MW-35S) and 13 downgradient monitoring wells (MW-20, MW-21R, MW-22R, MW-23R, MW-25, MW-26, MW-27, MW-28, MW-32SR, MW-33R, MW-34, MW-36S, and MWB50) designed to monitor the uppermost aquifer beneath the Unit.

In addition, the Station maintains several observation wells that are presently used for periodic water level monitoring activities.

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 the 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 Yorktown Formation). The groundwater flow direction in the uppermost aquifer beneath the Unit is radial in nature.

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 compliance sampling event. The Groundwater Potentiometric Surface Maps presented as Figures 2 and 3 were prepared using static water level data from the uppermost aquifer obtained during the first and second semi-annual AMP events on April 10, 2023, 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 be operated and maintained so that they perform to the design specifications in the Groundwater Monitoring System Certification for the LAP (Golder, 2017) and as recertified on March 31, 2023, consistent with 40 CFR §257.91(e)(2) of the CCR Rule.

Using the groundwater contours presented as an overlay on Figures 2 and 3, the average hydraulic gradient along the ideal flow line beneath the Unit for the uppermost aquifer in the study area was calculated for each monitoring event using the following equations:

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

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, based on slug test evaluations, was calculated using the algorithm below.

Groundwater Flow	Hydraulic Conductivity (k, cm/s)	Contour lines (feet amsl)	Flow Length (feet)	Calculated Gradient (i)	Geometric Average Gradient (i)	Assumed Porosity (Ø)	Estimated Groundwater Velocity	
							(cm/s)	(feet/year)
1st Semi-Annual Assessment Monitoring Program Event (April 2023)								
Unit -Columbia Vgw₁	1.39E-03	5-1	186	2.15E-02	1.4E-02	0.20	9.7E-05	100
Unit -Columbia Vgw₂		9.9-5	800	6.13E-03				
2nd Semi-Annual Assessment Monitoring Program Event (October 2023)								
Unit -Columbia Vgw₁	1.39E-03	5-1	153	2.61E-02	1.6E-02	0.20	1.1E-04	114
Unit -Columbia Vgw₂		9.9-5.0	748	6.55E-03				

As presented, the estimated average groundwater flow rate in the uppermost aquifer beneath the Unit (*Vgw*) is approximately 100 to 114 feet per year. The calculated flow rate velocity for the events conducted in 2023 is relatively reduced compared to historical data prior to 2019. The reduced and variable flow rate velocity observed from second semiannual 2019 event to current is associated with the installation of the rain cover at the LAP.

Specifically, the reduced gradient and associated reduction in the groundwater flow rate was expected due to the reduction in recharge to the uppermost aquifer.

3.0 FIELD ACTIVITIES

Pursuant to the requirements in 40 CFR 257.95(d)(1) two (2) semi-annual AMP monitoring events were completed 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 Assessment 2023 Monitoring Program Event	April 10-14, 2023	June 26, 2023
2nd Semi-Annual Assessment 2023 Monitoring Program Event	October 9-13, 2023	December 7, 2023

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 sampling events are included in Appendix A.

Samples collected during the first and second semi-annual 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 and Ormond Beach, Florida locations of Pace for analysis. Pace of Asheville, North Carolina (#460222) and Ormond Beach, Florida (#460165) are both 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 2023 AMP event were analyzed for the presence of concentration of the constituents and parameters listed in Appendix III and Appendix IV of the CCR rule. The laboratory certificates of analysis and chain-of-custody forms for the sampling event are presented in Appendix B.1. A summary of the CCR sampling data for the Unit is presented in Table 3.

4.2 2nd Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual 2023 AMP event were analyzed for the presence of concentration of the constituent and parameters listed in Appendix III and Appendix IV of the CCR rule. The laboratory certificates of analysis and chain-of-custody forms for the sampling event are presented in Appendix B.2. A summary of the CCR sampling data for the Unit is presented in Table 4.

5.0 DATA QUALITY VALIDATION

The Quality Assurance (QA) and quality control (QC) data provided by the laboratory for the AMP 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 Environmental Protection Agency (EPA) guidance document *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 compliance monitoring event samples collected April 10-14, 2023. Field QA/QC samples for this event included a field blank, equipment blank, and a field duplicate sample that was collected from compliance well MW-25 during the first semi-annual 2023 compliance event. 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 Table 3. A copy of the data validation record is presented in Appendix C.1.

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 9-13, 2023. Field QA/QC samples for this event included a field blank, equipment blank, and a field duplicate sample that was collected from compliance well MW-36S during the second semi-annual compliance event. 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 Table 4. A copy of the data validation record is presented in Appendix C.2.

6.0 STATISTICAL EVALUATION

This section presents a statistical evaluation for the semi-annual data according to the requirements of the CCR Rule and the SWP. Two (2) 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 background data; this analysis identifies statistically significant increases (SSIs) in downgradient wells over background (inter-well analysis); and
- Data from the second semi-annual 2022 compliance event and the first semi-annual 2023 compliance event have been evaluated with respect to GPS/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 Second Semi-Annual Compliance 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. Based on that evaluation, the following Appendix III SSIs were identified for the second semi-annual 2022 event (see Table 2):

- Boron (MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-33R, MW-34, MW-B50)
- Calcium (MW-28, MW-B50)
- Chloride (MW-27, MW-34, MW-B50)
- Fluoride (MW-23R, MW-25, MW-28)
- pH (MW-28)
- Sulfate (MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-B50)
- Total Dissolved Solids (MW-B50)

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 Table 2).

- Arsenic (MW-28)
- Cobalt (MW-20, MW-21R, MW-22R, MW-27)
- Fluoride (MW-23R, MW-25, MW-28)
- Molybdenum (MW-28)
- Radium 226 and 228 combined (MW-27)
- Selenium (MW-29U [upgradient], MW-23R, MW-B50)

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

6.1.2 2023 First Semi-Annual Compliance 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. Based on that evaluation, the following Appendix III SSIs were identified for the first semi-annual 2023 event (see Table 3):

- Boron (MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-33R, MW-34, MW-36S, MW-B50)
- Calcium (MW-28, MW-B50)
- Chloride (MW-21R, MW-27, MW-34, MW-36S, MW-B50)
- Fluoride (MW-23R, MW-25, MW-28)
- pH (MW-28)
- Sulfate (MW-20, MW-21R, MW-22R, MW-27, MW-28, MW-32SR, MW-B50)
- Total Dissolved Solids (MW-B50)

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 Table 3).

- Arsenic (MW-28)
- Barium (MW-29U [Upgradient], MW-36S)
- Cobalt (MW-20, MW-21R, MW-22R, MW-27, MW-36S)
- Fluoride (MW-23R, MW-25, MW-28)
- Molybdenum (MW-28)
- Radium 226 and 228 combined (MW-29U [Upgradient], MW-27)

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

6.1.3 2023 Second Semi-Annual Compliance 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 Standards

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 September 19, 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 Virginia Solid Waste Management Regulations (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 (2) sets of GWPS 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 GWPS Evaluations

The following constituents were detected at concentrations above the Federal GWPS during the 2022 second semi-annual event as presented in Table 2 based on a value-to-standard comparison.

Federal CCR Rule Groundwater Protection Standard Exceedances

Constituent	Federal CCR Groundwater Protection Standard	Assessment Monitoring Well	2SA 2022 Concentration
Arsenic (ug/L)	19.8	MW-28	192
Cobalt (ug/L)	7.4	MW-20	17.8
		MW-21R	8.0
		MW-22R	42.0
		MW-27	10.9
Radium 226 and 228 (combined) (pCi/L)	5	MW-27	5.86 J

Notes: ug/L = Microgram per liter
pCi/L = picoCurie per liter
J = Quantitation is approximate

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

Virginia CCR Rule Groundwater Protection Standard Exceedances

Constituent	Virginia CCR Groundwater Protection Standard	Assessment Monitoring Well	2SA 2022 Concentration
Arsenic (ug/L)	19.8	MW-28	192
Cobalt (ug/L)	7.4	MW-20	17.8
		MW-21R	8.0
		MW-22R	42.0
		MW-27	10.9
Molybdenum (ug/L)	QL (10)	MW-28	17.5
Radium 226 and 228 combined (pCi/L)	5	MW-27	5.86 J

Notes: ug/L = Microgram per liter
pCi/L = picoCurie per liter
QL= Quantitation Limit
J = Quantitation is approximate

A record of the exceedances was placed in the Unit's operating record on April 13, 2023. An ACM was completed for the Unit in May 2019 and includes the constituents noted above.

6.2.2 2023 1st Semi-Annual GWPS Evaluations

The following constituents were detected at concentrations above the Federal GWPS during the 2023 first semi-annual groundwater monitoring event based on a value-to-standard comparison.

Federal CCR Rule Groundwater Protection Standard Exceedances

Constituent	Federal CCR Groundwater Protection Standard	Assessment Monitoring Well	1SA 2023 Concentration
Arsenic (ug/L)	19.8	MW-28	137
Cobalt (ug/L)	7.4	MW-20	78.7
		MW-21R	10.9
		MW-22R	14.2
		MW-27	8.9
		MW-36S	13.0
Radium 226 and 228 (combined) (pCi/L)	5	MW-27	5.92 J+

Note: ug/L = Micrograms per liter
pCi/L = picoCurie per liter
J+ = The result is an estimated quantity; the result may be biased high

Under 9VAC-20-81-800, the following constituents were detected at a concentration above the Virginia CCR Rule GWPS.

Virginia CCR Rule Groundwater Protection Standard Exceedances

Constituent	Virginia CCR Groundwater Protection Standard	Assessment Monitoring Well	1SA 2023 Concentration
Arsenic (ug/L)	19.8	MW-28	137
Cobalt (ug/L)	7.4	MW-20	78.7
		MW-21R	10.9
		MW-22R	14.2
		MW-27	8.9
		MW-36S	13.0
Molybdenum	QL (10)	MW-28	15.6
Radium 226 and 228 combined (pCi/L)	5	MW-27	5.92 J+

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 October 20, 2023. An ACM was completed for the Unit in May 2019 and includes the constituents noted above.

6.2.3 2023 2nd Semi-Annual GWPS Evaluations

The data for the 2023 second semi-annual AMP sampling event 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 June 26, 2023. The second semi-annual 2023 AMP compliance sampling event was completed on October 9-13, 2023, with sample analyses completed on December 7, 2023. These groundwater sampling and analysis activities were conducted in general accordance with the requirements of the Unit's GMP for the CCR network.

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

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 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

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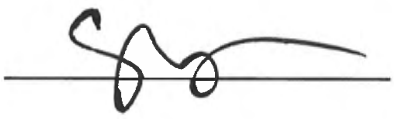
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9.0 SIGNATURE SECTION

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) has been prepared by WSP USA Inc. on the behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Unit at Chesterfield Power Station to satisfy the reporting requirements specified in Title 40 Code of Federal Regulations (CFR) Part 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.* (9VAC2081800).

Signature	Name & Title
	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, Lower Ash Pond, Chesterfield, VA

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-29U	7.13	10/07/2016	6.22	0.91
		11/14/2016	6.40	0.73
		01/09/2017	7.00	0.13
		02/20/2017	5.74	1.39
		04/03/2017	4.69	2.44
		05/15/2017	4.60	2.53
		06/19/2017	4.79	2.34
		07/24/2017	6.30	0.83
		09/11/2017	6.90	0.23
		02/05/2018	6.72	0.41
		05/17/2018	5.55	1.58
		11/19/2018	4.58	2.55
		04/22/2019	3.93	3.20
		11/18/2019	6.71	0.42
		05/04/2020	4.45	2.68
		11/02/2020	4.31	2.82
		04/19/2021	3.90	3.23
		10/18/2021	6.78	0.35
		04/04/2022	5.60	1.53
		10/03/2022	7.33	-0.20
		04/10/2023	4.71	2.42
		10/09/2023	7.10	0.03
MW-35S	57.81	01/09/2017	49.67	8.14
		02/20/2017	50.02	7.79
		04/03/2017	50.06	7.75
		05/03/2017	50.12	7.69
		05/15/2017	49.62	8.19
		05/26/2017	49.48	8.33
		06/06/2017	49.03	8.78
		06/19/2017	49.42	8.39
		07/05/2017	49.81	8.00
		07/24/2017	50.13	7.68
		08/10/2017	50.32	7.49
		09/11/2017	50.38	7.43
		02/05/2018	51.75	6.06
		05/17/2018	51.30	6.51
		11/19/2018	49.47	8.34
		04/22/2019	48.77	9.04
		11/18/2019	50.38	7.43
		05/04/2020	50.59	7.22
		11/02/2020	48.44	9.37
		04/19/2021	47.57	10.24
		10/18/2021	49.04	8.77
		04/04/2022	50.82	6.99
		10/03/2022	50.96	6.85
		04/10/2023	50.99	6.82
		10/09/2023	51.05	6.76
MW-20	21.30	10/07/2016	14.86	6.44
		11/14/2016	15.45	5.85
		01/09/2017	15.46	5.84
		02/20/2017	15.57	5.73
		04/03/2017	15.12	6.18
		05/15/2017	15.59	5.71
		06/19/2017	15.97	5.33
		07/24/2017	16.50	4.80
		09/11/2017	16.35	4.95
		02/05/2018	17.36	3.94
		05/17/2018	17.26	4.04
		11/19/2018	15.89	5.41
		04/22/2019	16.22	5.08
		11/18/2019	18.56	2.74
		05/04/2020	17.68	3.62
		11/02/2020	16.40	4.90
		04/19/2021	16.27	5.03
		10/18/2021	18.23	3.07
		04/04/2022	18.56	2.74
		10/03/2022	19.43	1.87
		04/10/2023	18.54	2.76
		10/09/2023	19.14	2.16
MW-21	11.91	10/04/2016	4.31	7.60
		11/14/2016	5.09	6.82
		01/09/2017	4.69	7.22
		02/20/2017	4.74	7.17
		04/03/2017	3.86	8.05
		05/15/2017	5.01	6.90
		06/19/2017	5.64	6.27
		07/24/2017	6.57	5.34
		09/11/2017	6.51	5.40
		02/05/2018	6.80	5.11
		05/17/2018	6.76	5.15
		11/19/2018	4.91	7.00
		04/22/2019	5.25	6.66
		11/18/2019	8.77	3.14
		05/04/2020	6.92	4.99
		11/02/2020	5.58	6.33
		04/06/2021	Decommissioned	

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Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-21R	20.88	04/19/2021	14.70	6.18
		10/18/2021	17.65	3.23
		04/04/2022	17.16	3.72
		10/03/2022	18.96	1.92
		04/10/2023	17.73	3.15
		10/09/2023	18.91	1.97
MW-22	12.33	10/04/2016	4.50	7.83
		11/14/2016	5.98	6.35
		01/09/2017	5.59	6.74
		02/20/2017	5.54	6.79
		04/03/2017	4.80	7.53
		05/15/2017	5.77	6.56
		06/19/2017	6.52	5.81
		07/24/2017	7.40	4.93
		09/11/2017	7.48	4.85
		02/05/2018	7.63	4.70
		05/17/2018	7.42	4.91
		11/19/2018	5.69	6.64
		04/22/2019	5.85	6.48
		11/18/2019	9.45	2.88
		05/04/2020	7.34	4.99
		11/02/2020	6.19	6.14
		04/06/2021	Decommissioned	
MW-22R	19.99	04/19/2021	13.75	6.24
		10/18/2021	16.74	3.25
		04/04/2022	16.16	3.83
		10/03/2022	18.10	1.89
		04/10/2023	16.65	3.34
		10/09/2023	18.40	1.59
MW-23	8.37	10/03/2016	4.26	4.11
		11/14/2016	4.96	3.41
		01/09/2017	5.11	3.26
		02/20/2017	4.83	3.54
		04/03/2017	4.31	4.06
		05/15/2017	4.42	3.95
		06/19/2017	4.92	3.45
		07/24/2017	5.49	2.88
		09/11/2017	5.37	3.00
		02/05/2018	5.61	2.76
		05/17/2018	5.39	2.98
		11/19/2018	4.67	3.70
		04/22/2019	4.83	3.54
		11/18/2019	5.51	2.86
		05/04/2020	4.95	3.42
		11/02/2020	4.79	3.58
		04/05/2021	Decommisioned	
MW-23R	17.14	04/19/2021	13.90	3.24
		10/18/2021	15.57	1.57
		04/04/2022	15.20	1.94
		10/03/2022	14.99	2.15
		04/10/2023	16.13	1.01
		10/09/2023	15.20	1.94
MW-24	18.66	10/07/2016	9.82	8.84
		11/14/2016	10.45	8.21
		01/09/2017	11.65	7.01
		02/20/2017	11.05	7.61
		04/03/2017	10.57	8.09
		05/15/2017	10.05	8.61
		06/19/2017	10.29	8.37
		07/24/2017	10.45	8.21
		09/11/2017	10.61	8.05
		02/05/2018	13.58	5.08
		05/17/2018	14.85	3.81
		11/19/2018	13.20	5.46
		04/22/2019	9.36	9.30
		11/18/2019	12.71	5.95
		05/04/2020	12.76	5.90
		11/02/2020	12.98	5.68
		04/19/2021	12.62	6.04
		10/18/2021	13.08	5.58
		04/04/2022	13.56	5.10
		10/03/2022	Decommisioned	

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Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-25	12.64	10/12/2016	9.66	2.98
		11/14/2016	10.28	2.36
		11/16/2016	10.72	1.92
		01/09/2017	11.24	1.40
		02/20/2017	10.88	1.76
		04/03/2017	10.15	2.49
		05/15/2017	9.74	2.90
		06/19/2017	10.73	1.91
		07/24/2017	10.90	1.74
		09/11/2017	10.30	2.34
		02/05/2018	11.20	1.44
		05/17/2018	10.60	2.04
		11/19/2018	10.02	2.62
		04/22/2019	9.73	2.91
		11/18/2019	10.43	2.21
		05/04/2020	10.27	2.37
		11/02/2020	10.65	1.99
		04/19/2021	9.95	2.69
		10/18/2021	10.92	1.72
		04/04/2022	11.29	1.35
		10/04/2022	10.32	2.32
		04/10/2023	10.62	2.02
		10/09/2023	10.86	1.78
MW-26	9.71	10/04/2016	6.97	2.74
		11/14/2016	9.34	0.37
		11/15/2016	8.21	1.50
		01/09/2017	9.20	0.51
		02/20/2017	8.09	1.62
		04/03/2017	7.33	2.38
		05/15/2017	7.03	2.68
		06/19/2017	8.76	0.95
		07/24/2017	9.10	0.61
		09/11/2017	7.69	2.02
		02/05/2018	8.54	1.17
		05/17/2018	9.76	-0.05
		11/19/2018	6.98	2.73
		04/22/2019	6.70	3.01
		11/18/2019	8.21	1.50
		05/04/2020	7.58	2.13
		11/02/2020	9.10	0.61
		04/19/2021	7.15	2.56
		10/18/2021	8.34	1.37
		04/04/2022	9.07	0.64
		10/03/2022	8.19	1.52
		04/10/2023	7.68	2.03
		10/09/2023	8.83	0.88
MW-27	17.15	10/04/2016	15.00	2.15
		10/12/2016	15.01	2.14
		11/14/2016	17.77	-0.62
		11/15/2016	16.98	0.17
		01/09/2017	17.20	-0.05
		02/20/2017	15.76	1.39
		04/03/2017	15.18	1.97
		05/15/2017	15.02	2.13
		06/19/2017	16.80	0.35
		07/24/2017	17.41	-0.26
		09/11/2017	15.15	2.00
		02/05/2018	16.44	0.71
		05/17/2018	15.90	1.25
		11/19/2018	15.59	1.56
		04/22/2019	14.55	2.60
		11/18/2019	15.97	1.18
		05/04/2020	15.23	1.92
		11/02/2020	17.45	-0.30
		04/19/2021	15.17	1.98
		10/18/2021	16.05	1.10
		04/04/2022	17.34	-0.19
		10/03/2022	16.32	0.83
		04/10/2023	15.21	1.94
		10/09/2023	16.54	0.61

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Summary of Historical CCR Static Water Level Data
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Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-28	22.01	10/04/2016	16.37	5.64
		10/12/2016	15.81	6.20
		11/14/2016	16.60	5.41
		01/09/2017	16.93	5.08
		02/20/2017	16.90	5.11
		04/03/2017	16.80	5.21
		05/15/2017	16.83	5.18
		06/19/2017	17.04	4.97
		07/24/2017	17.52	4.49
		09/11/2017	17.11	4.90
		02/05/2018	18.55	3.46
		05/17/2018	18.33	3.68
		11/19/2018	17.26	4.75
		04/22/2019	17.66	4.35
		11/18/2019	19.11	2.90
		05/04/2020	18.85	3.16
		11/02/2020	17.75	4.26
		04/19/2021	17.63	4.38
		10/18/2021	18.74	3.27
		04/04/2022	18.49	3.52
		10/03/2022	19.81	2.20
		04/10/2023	19.33	2.68
		10/09/2023	19.52	2.49
MW-32	8.37	10/03/2016	3.79	4.58
		11/14/2016	4.01	4.36
		01/09/2017	4.12	4.25
		02/20/2017	4.08	4.29
		04/03/2017	3.81	4.56
		05/15/2017	3.90	4.47
		06/19/2017	4.42	3.95
		07/24/2017	4.98	3.39
		09/11/2017	4.95	3.42
		02/05/2018	5.07	3.30
		05/17/2018	4.88	3.49
		11/19/2018	3.98	4.39
		04/22/2019	3.99	4.38
		11/18/2019	5.63	2.74
		12/30/2019	4.58	3.79
		05/04/2020	4.53	3.84
		11/02/2020	4.20	4.17
		04/06/2021	Decommissioned	
MW-32SR	17.88	04/19/2021	13.85	4.03
		10/18/2021	14.99	2.89
		04/04/2022	15.21	2.67
		10/03/2022	15.84	2.04
		04/10/2023	14.47	3.41
		10/09/2023	16.05	1.83
MW-33	12.73	10/03/2016	8.88	3.85
		11/14/2016	9.45	3.28
		01/09/2017	3.26	9.47
		02/20/2017	9.71	3.02
		04/03/2017	5.45	7.28
		05/15/2017	8.15	4.58
		06/19/2017	8.66	4.07
		07/24/2017	9.05	3.68
		09/11/2017	9.35	3.38
		02/05/2018	10.06	2.67
		05/17/2018	9.85	2.88
		11/19/2018	9.34	3.39
		04/22/2019	9.50	3.23
		11/18/2019	9.35	3.38
		05/04/2020	9.30	3.43
		11/02/2020	9.62	3.11
		04/04/2021	Decommissioned	
MW-33R	20.35	04/19/2021	15.70	4.65
		10/18/2021	15.81	4.54
		04/04/2022	16.23	4.12
		10/03/2022	16.59	3.76
		04/10/2023	17.16	3.19
		10/09/2023	17.16	3.19

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

Monitoring Well ID	TOC Elevation (ft msl)	Date of Measurement	Depth to Water ft btoc	Groundwater Elevation ft msl
MW-34	9.70	10/12/2016	5.95	3.75
		11/14/2016	6.58	3.12
		01/09/2017	7.65	2.05
		02/20/2017	7.34	2.36
		04/03/2017	6.70	3.00
		05/15/2017	6.28	3.42
		06/19/2017	6.53	3.17
		07/24/2017	7.02	2.68
		09/11/2017	6.85	2.85
		02/05/2018	8.42	1.28
		05/17/2018	10.30	-0.60
		11/19/2018	7.32	2.38
		04/22/2019	6.73	2.97
		11/18/2019	7.05	2.65
		05/04/2020	7.18	2.52
		11/02/2020	7.29	2.41
		04/19/2021	7.25	2.45
		10/18/2021	7.48	2.22
		04/04/2022	8.38	1.32
		10/03/2022	7.72	1.98
		04/10/2023	8.15	1.55
		10/09/2023	7.91	1.79
MW-36S	14.71	04/10/2023	14.40	0.31
		10/09/2023	12.60	2.11
MW-B40A	18.49	10/05/2016	5.52	12.97
		11/14/2016	6.02	12.47
		01/09/2017	5.99	12.50
		02/20/2017	6.00	12.49
		04/03/2017	5.50	12.99
		05/15/2017	5.54	12.95
		06/19/2017	5.66	12.83
		07/24/2017	6.21	12.28
		09/11/2017	5.54	12.95
		02/05/2018	6.96	11.53
		05/17/2018	8.68	9.81
		11/19/2018	8.49	10.00
		04/22/2019	5.63	12.86
		11/18/2019	8.54	9.95
		05/04/2020	6.50	11.99
		11/02/2020	6.88	11.61
		04/19/2021	7.56	10.93
		10/18/2021	8.98	9.51
		04/04/2022	9.28	9.21
		10/03/2022	Decommissioned	
MW-B50	25.83	10/04/2016	20.19	5.64
		10/12/2016	19.69	6.14
		11/14/2016	20.39	5.44
		01/09/2017	20.75	5.08
		02/20/2017	20.96	4.87
		04/03/2017	20.73	5.10
		05/15/2017	20.61	5.22
		06/19/2017	20.94	4.89
		07/24/2017	21.32	4.51
		09/11/2017	21.11	4.72
		02/05/2018	22.39	3.44
		05/17/2018	22.20	3.63
		11/19/2018	21.19	4.64
		04/22/2019	21.46	4.37
		11/18/2019	22.80	3.03
		05/04/2020	22.60	3.23
		11/02/2020	21.56	4.27
		04/19/2021	21.37	4.46
		10/18/2021	23.53	2.30
		04/04/2022	23.29	2.54
		10/03/2022	23.39	2.44
		04/10/2023	23.09	2.74
		10/09/2023	23.25	2.58

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

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

					Upgradient								Downgradient															
				Sample ID:	MW-29U				MW-35S				MW-20				MW-21R				MW-22R				MW-23R				MW-25			
				Sample Date:	10/3/2022				10/3/2022				10/7/2022				10/7/2022				10/7/2022				10/7/2022				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)	--	--	< 32.4	U	32.4	50.0	< 32.4	U	32.4	50.0	**416**		32.4	50.0	**405**		32.4	50.0	**425**		32.4	50.0	< 32.4	U	32.4	50.0	< 32.4	U	32.4	50.0
Calcium	ug/L	63,900	--	--	**49200**		94.2	100	**5880**		94.2	100	**26900**		94.2	100	**49200**		94.2	100	**27900**		94.2	100	**58200**		94.2	100	**29200**		94.2	100
Chloride	mg/L	46	--	--	**14.5**		0.60	1.0	**11.8**		0.60	1.0	**23.3**		0.60	1.0	**44.1**		0.60	1.0	**15.5**		0.60	1.0	**3.1**		0.60	1.0	**5.5**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.21**		0.050	0.10	**0.070**	J	0.050	0.10	**0.083**	J	0.050	0.10	**0.099**	J	0.050	0.10	**0.071**	J	0.050	0.10	**0.32**		0.050	0.10	**0.40**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.23		0.01	0.01	5.23		0.01	0.01	5.13		0.01	0.01	5.82		0.01	0.01	5.60		0.01	0.01	6.37		0.01	0.01	6.35		0.01	0.01
Sulfate	mg/L	9.16	--	--	< 0.50	U	0.50	1.0	**4.2**		0.50	1.0	**31.7**		0.50	1.0	**80.5**		0.50	1.0	**134**		1.5	3.0	**0.82**	J	0.50	1.0	**1.1**		0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**395**		25.0	25.0	**80.0**		25.0	25.0	**223**		25.0	25.0	**366**		50.0	50.0	**261**		25.0	25.0	**302**		50.0	50.0	**192**		25.0	25.0
Detected CCR Appendix IV Constituents																																
Arsenic	ug/L	19.8	19.8	19.8	**10.1**		0.087	1.0	**0.10**	J	0.087	1.0	**1.1**		0.087	1.0	**0.85**	J	0.087	1.0	**0.23**	J	0.087	1.0	**5.5**		0.087	1.0	**13.7**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**259**		3.5	5.0	**27.8**		3.5	5.0	**132**		3.5	5.0	**71.4**		3.5	5.0	**26.6**		3.5	5.0	**192**		3.5	5.0	**95.7**		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	**0.44**	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	**17.8**		0.050	1.0	**8.0**		0.050	1.0	**42.0**		0.050	1.0	**5.8**		0.050	1.0	**0.83**	J	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.21**		0.050	0.10	**0.070**	J	0.050	0.10	**0.083**	J	0.050	0.10	**0.099**	J	0.050	0.10	**0.071**	J	0.050	0.10	**0.32**		0.050	0.10	**0.40**		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	**0.12**	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	QL (50)	40	QL (50)	< 0.50	U	0.50	2.5	**4.3**		0.50	2.5	**2.3**	J	0.50	2.5	**0.78**	J	0.50	2.5	**1.5**	J	0.50	2.5	< 0.50	U	0.50	2.5	**1.4**	J	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	**0.18**	J	0.13	1.0	**0.51**	J	0.13	1.0	< 0.13	U	0.13	1.0	**6.6**		0.13	1.0	**3.1**		0.13	1.0
Selenium	ug/L	QL (5)	50	50	**11.1**		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	**5.6**	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	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47	**0.12**	J	0.050	0.47	**0.12**	J	0.050	0.47	< 0.050	U	0.050	0.47	< 0.050	U	0.050	0.47
Radium, Total	pCi/L	1.55	5	5	**0.526**	J	--	--	**0.781**	J	--	--	0.152	UJ	--	--	**1.28**	J	--	--	**1.04**	J	--	--	0.583	UJ	--	--	0.0395	UJ	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	761		0.1	.01	120.1		0.1	.01	394.2		0.1	.01	549		0.1	.01	382.6		0.1	.01	609		0.1	.01	379.1		0.1	.01
Dissolved Oxygen	mg/L	--	--	--	0.99		0.01	0.01	8.02		0.01	0.01	0.88		0.01	0.01	0.24		0.01	0.01	-0.04		0.01	0.01	0.03		0.01	0.01	0.49		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-37.0		0.1	0.1	175.5		0.1	0.1	129.8		0.1	0.1	108.1		0.1	0.1	91.7		0.1	0.1	-79.3		0.1	0.1	-86.7		0.1	0.1
Temperature	C	--	--	--	18.7		0.1	0.1	17.0		0.1	0.1	18.9		0.1	0.1	18.7		0.1	0.1	17.5		0.1	0.1	17.7		0.1	0.1	18.2		0.1	0.1
Turbidity	ntu	--	--	--	24.10		0.01	0.01	4.70		0.01	0.01	8.37		0.01	0.01	8.45		0.01	0.01	18.21		0.01	0.01	8.57		0.01	0.01	3.34		0.01	0.01

					Downgradient																							
				Sample ID:	MW-26				MW-27				MW-28				MW-32SR				MW-33R				MW-34				MW-B50			
				Sample Date:	10/6/2022				10/6/2022				10/7/2022				10/7/2022				10/7/2022				10/6/2022				10/4/2022			
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	**395**		32.4	50.0	**201**		32.4	50.0	< 32.4	U	32.4	50.0	**300**		32.4	50.0	**988**		32.4	50.0	**328**		32.4	50.0
Calcium	ug/L	63,900	--	--	**6250**		94.2	100	**24800**		94.2	100	**75100**		94.2	100	**30200**		94.2	100	**42400**		94.2	100	**45800**		94.2	100	**84700**		94.2	100
Chloride	mg/L	46	--	--	**7.1**		0.60	1.0	**52.9**		0.60	1.0	**26.0**		0.60	1.0	**17.4**		0.60	1.0	**12.7**		0.60	1.0	**94.3**		0.60	1.0	**114**		1.2	2.0
Fluoride	mg/L	0.281	4	4	**0.14**		0.050	0.10	**0.072**	J	0.050	0.10	**0.35**		0.050	0.10	**0.19**		0.050	0.10	**0.069**	J	0.050	0.10	**0.10**		0.050	0.10	**0.15**		0.050	0.10
pH	SU	4.63-6.72	--	--	5.92		0.01	0.01	5.72		0.01	0.01	7.07		0.01	0.01	6.03		0.01	0.01	6.29		0.01	0.01	6.45		0.01	0.01	5.39		0.01	0.01
Sulfate	mg/L	9.16	--	--	**2.7**		0.50	1.0	**35.4**		0.50	1.0	**21.5**		0.50	1.0	**4.3**		0.50	1.0	< 0.50	U	0.50	1.0	< 0.50	U	0.50	1.0	**52.7**		0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**97.0**		25.0	25.0	**240**		50.0	50.0	**344**		50.0	50.0	**242**		50.0	50.0	**234**		50.0	50.0	**81.0**		25.0	25.0	**462**		25.0	25.0
Detected CCR Appendix IV Constituents																																
Arsenic	ug/L	19.8	19.8	19.8	**5.8**		0.087	1.0	**0.24**	J	0.087	1.0	**192**		0.087	1.0	**9.2**		0.087	1.0	**2.2**		0.087	1.0	**10.3**		0.087	1.0	**2.2**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**31.3**		3.5	5.0	**80.2**		3.5	5.0	**101**		3.5	5.0	**151**		3.5	5.0	**162**		3.5	5.0	**214**		3.5	5.0	**97.4**		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)	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	**2.3**		0.050	1.0	**10.9**		0.050	1.0	**2.9**		0.050	1.0	**4.5**		0.050	1.0	**1.0**		0.050	1.0	**2.2**		0.050	1.0	**0.96**	J	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.14**		0.050	0.10	**0.072**	J	0.050	0.10	**0.35**		0.050	0.10	**0.19**		0.050	0.10	**0.069**	J	0.050	0.10	**0.10**		0.050	0.10	**0.15**		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	< 0.077	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)	**2.6**		0.50	2.5	**1.8**	J	0.50	2.5	**13.0**		0.50	2.5	**2.4**	J	0.50	2.5	**1.7**	J	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)	**0.66**	J	0.13	1.0	< 0.13	U	0.13	1.0	**17.5**		0.13	1.0	**0.90**	J	0.13	1.0	**0.93**	J	0.13	1.0	**1.6**		0.13	1.0	**0.35**	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	**6.2**	J	4.7	10.0
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.47	**0.052**	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	**0.084**	J	0.050	0.47
Radium, Total	pCi/L	1.55	5	5	**0.694**	J	--	--	**5.86**	J	--	--	**0.568**	J	--	--	**0.774**	J	--	--	**1.45**	J	--	--	**1.16**	J	--	--	0.245	UJ	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	160.9		0.1	.01	441.6		0.1	.01	672		0.1	.01	503		0.1	.01	658		0.1	.01	748		0.1	.01	856		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.50		0.01	0.01	0.16		0.01	0.01	0.39		0.01	0.01	-0.02		0.01	0.01	0.14		0.01	0.01	0.21		0.01	0.01	1.45		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	8.2		0.1	0.1	177.1		0.1	0.1	-129.3		0.1	0.1	-37.3		0.1	0.1	-96.0		0.1	0.1	-97.1		0.1	0.1	3.5		0.1	0.1
Temperature	C	--	--	--	20.6		0.1	0.1	20.0		0.1	0.1	20.9		0.1	0.1	17.6		0.1	0.1	17.5		0.1	0.1	18.8		0.1	0.1	18.5		0.01	0.01
Turbidity	ntu	--	--	--	9.81		0.01	0.01	3.01		0.01	0.01	7.96		0.01	0.01	9.57		0.01	0.01	7.70		0.01	0.01	7.08		0.01	0.01	9.63		0.1	0.1

Notes:

BKG = Background
C = Degrees Celsius
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
MDL = Method Detection Limit
RL = Reporting Limit
-- = Not analyzed

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

Quals (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 analyzed for, but was not detected above the level of the reported sample quantitation limit

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

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

					Field QC							
				Sample ID:	MW-33R Duplicate				Field Blank			
				Sample Date:	10/7/2022				10/7/2022			
Parameter Name	**Unit**	**CCR Site-Specific BKG**	**Federal CCR GWPS**	**Virgina CCR GWPS**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents												
Boron	ug/L	QL (50)	--	--	**307**		32.4	50.0	< 32.4	U	32.4	50.0
Calcium	ug/L	63,900	--	--	**41200**		94.2	100	< 94.2	U	94.2	100
Chloride	mg/L	46	--	--	**12.7**		0.60	1.0	< 1.8	U	0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.069**	J	0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	4.63-6.72	--	--	--		--	--	--		--	--
Sulfate	mg/L	9.16	--	--	< 0.50	U	0.50	1.0	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**240**		50.0	50.0	< 25.0	U	25.0	25.0
Detected CCR Appendix IV Constituents												
Arsenic	ug/L	19.8	19.8	19.8	**2.4**		0.087	1.0	< 0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	**160**		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
Cadmium	ug/L	QL (1)	5	5	< 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
Cobalt	ug/L	7.4	7.4	7.4	**0.90**	J	0.050	1.0	< 0.050	U	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.069**	J	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	< 0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**1.7**	J	0.50	2.5	< 0.50	U	0.50	2.5
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.83**	J	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	< 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
Radium, Total	pCi/L	1.55	5	5	**0.801**	J	--	--	0.201	UJ	--	--
Field Parameters												
Conductivity	uS/cm	--	--	--	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	--		--	--	--		--	--
Temperature	C	--	--	--	--		--	--	--		--	--
Turbidity	ntu	--	--	--	--		--	--	--		--	--

Notes:
BKG = Background
C = Degrees Celsius
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
MDL = Method Detection Limit
RL = Reporting Limit
-- = Not analyzed

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

Quals (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 analyzed for, but was not detected above the level of the reported sample quantitation limit

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

Table 3
Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data
Chesterfield Power Station, Lower Ash Pond

					Upgradient								Downgradient															
				Sample ID:	MW-29U				MW-35S				MW-20				MW-21R				MW-22R				MW-23R				MW-25			
				Sample Date:	4/12/2023				4/12/2023				4/14/2023				4/14/2023				4/14/2023				4/14/2023				4/10/2023			
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	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	**503**		12.4	50.0	**366**		12.4	50.0	**139**		12.4	50.0	**13.9**	J	12.4	50.0	< 12.4	U	12.4	50.0
Calcium	ug/L	63,900	--	--	**54000**		190	500	**6000**		190	500	**36800**		190	500	**44700**		190	500	**19100**		190	500	**61700**		190	500	**30400**		190	500
Chloride	mg/L	46	--	--	**13.1**		0.60	1.0	**11.5**		0.60	1.0	**29.0**		0.60	1.0	**47.8**		0.60	1.0	**20.5**		0.60	1.0	**3.0**		0.60	1.0	**5.5**		0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.079**	J	0.050	0.10	**0.081**	J	0.050	0.10	**0.12**		0.050	0.10	**0.10**		0.050	0.10	**0.34**		0.050	0.10	**0.44**		0.050	0.10
pH	SU	4.63-6.72	--	--	6.23		0.01	0.01	5.55		0.01	0.01	5.08		0.01	0.01	5.85		0.01	0.01	5.58		0.01	0.01	6.50		0.01	0.01	6.07		0.01	0.01
Sulfate	mg/L	9.16	--	--	**1.1**		0.50	1.0	**4.4**		0.50	1.0	**161**		1.5	3.0	**97.7**		1.0	2.0	**28.2**		0.50	1.0	**1.7**		0.50	1.0	**0.94**	J	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**358**		25.0	25.0	**99.0**		25.0	25.0	**331**		25.0	25.0	**376**		25.0	25.0	**177**		25.0	25.0	**320**		25.0	25.0	**211**		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	19.8	19.8	19.8	**13.7**		0.43	5.0	< 0.087	U	0.087	1.0	**0.21**	J	0.087	1.0	**0.72**	J	0.087	1.0	**0.36**	J	0.087	1.0	**4.8**		0.087	1.0	**9.5**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**348**		0.84	10.0	**31.2**		0.84	10.0	**27.7**		0.84	10.0	**68.6**		0.84	10.0	**123**		0.84	10.0	**164**		0.84	10.0	**108**		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	< 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	**0.57**	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	< 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	< 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	**78.7**		0.050	1.0	**10.9**		0.050	1.0	**14.2**		0.050	1.0	**1.6**		0.050	1.0	**0.79**	J	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.17**		0.050	0.10	**0.079**	J	0.050	0.10	**0.081**	J	0.050	0.10	**0.12**		0.050	0.10	**0.10**		0.050	0.10	**0.34**		0.050	0.10	**0.44**		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	**0.17**	J	0.077	1.0	**0.098**	J	0.077	1.0	**0.34**	J	0.077	1.0	**0.12**	J	0.077	1.0	**0.17**	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	**2.9**		0.50	2.5	**1.2**	J	0.50	2.5	**2.7**		0.50	2.5	**0.58**	J	0.50	2.5	**1.9**	J	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	< 0.13	U	0.13	1.0	**0.36**	J	0.13	1.0	**0.14**	J	0.13	1.0	**5.3**		0.13	1.0	**2.6**		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	**0.21**		0.050	0.20	**0.079**	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
Radium, Total	pCi/L	1.55	5	5	**1.91**	J	--	--	**1.17**	J	--	--	**1.54**		--	--	**0.630**	J	--	--	**0.703**	J	--	--	**0.428**	J	--	--	0.287	U	--	--
Field Parameters																																
Conductivity	uS/cm	--	--	--	732		0.1	0.1	123.4		0.1	0.1	486.1		0.1	0.1	555		0.1	0.1	249.7		0.1	0.1	527		0.1	0.1	360.0		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	0.62		0.01	0.01	8.56		0.01	0.01	1.23		0.01	0.01	0.56		0.01	0.01	1.19		0.01	0.01	0.66		0.01	0.01	0.71		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	-106.6		0.1	0.1	209.5		0.1	0.1	151.2		0.1	0.1	112.0		0.1	0.1	152.2		0.1	0.1	-36.0		0.1	0.1	-37.2		0.1	0.1
Temperature	C	--	--	--	15.5		0.01	0.01	17.0		0.01	0.01	17.8		0.01	0.01	17.5		0.01	0.01	18.5		0.01	0.01	18.0		0.01	0.01	16.5		0.01	0.01
Turbidity	ntu	--	--	--	9.67		0.1	0.1	3.49		0.1	0.1	9.42		0.1	0.1	9.84		0.1	0.1	9.83		0.1	0.1	35.86		0.1	0.1	8.33		0.1	0.1

					Downgradient																							
				Sample ID:	MW-26				MW-27				MW-28				MW-32SR				MW-33R				MW-34			
				Sample Date:	4/10/2023				4/10/2023				4/14/2023				4/14/2023				4/14/2023				4/10/2023			
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	Result	Qual	MDL	RL
CCR Appendix III Constituents																												
Boron	ug/L	QL (50)	--	--	< 12.4	U	12.4	50.0	**419**		12.4	50.0	**196**		12.4	50.0	**31.8**	J	12.4	50.0	**298**		12.4	50.0	**1040**		12.4	50.0
Calcium	ug/L	63,900	--	--	**6570**		190	500	**28100**		190	500	**72100**		190	500	**29200**		190	500	**33000**		190	500	**50000**		190	500
Chloride	mg/L	46	--	--	**7.2**		0.60	1.0	**58.5**		0.60	1.0	**28.0**		0.60	1.0	**18.7**		0.60	1.0	**31.7**		0.60	1.0	**98.7**		1.2	2.0
Fluoride	mg/L	0.281	4	4	**0.13**		0.050	0.10	**0.093**	J	0.050	0.10	**0.37**		0.050	0.10	**0.26**		0.050	0.10	**0.15**		0.050	0.10	**0.14**		0.050	0.10
pH	SU	4.63-6.72	--	--	5.80		0.01	0.01	5.71		0.01	0.01	**7.01**		0.01	0.01	6.11		0.01	0.01	6.57		0.01	0.01	6.47		0.01	0.01
Sulfate	mg/L	9.16	--	--	**2.8**		0.50	1.0	**42.9**		0.50	1.0	**29.9**		0.50	1.0	**37.2**		0.50	1.0	< 0.50	U	0.50	1.0	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**90.0**		25.0	25.0	**260**		25.0	25.0	**336**		25.0	25.0	**278**		25.0	25.0	**259**		25.0	25.0	**318**		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
Arsenic	ug/L	19.8	19.8	19.8	**1.2**		0.087	1.0	< 0.087	U	0.087	1.0	**137**		0.087	1.0	**8.1**		0.087	1.0	**10.5**		0.087	1.0	**9.2**		0.087	1.0
Barium	ug/L	318	2,000	2,000	**31.1**		0.84	10.0	**92.6**		0.84	10.0	**100**		0.84	10.0	**183**		0.84	10.0	**208**		0.84	10.0	**250**		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	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
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	**2.0**	J	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	**1.2**		0.050	1.0	**8.9**		0.050	1.0	**5.1**		0.050	1.0	**4.9**		0.050	1.0	**1.2**		0.050	1.0	**2.3**		0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.13**		0.050	0.10	**0.093**	J	0.050	0.10	**0.37**		0.050	0.10	**0.26**		0.050	0.10	**0.15**		0.050	0.10	**0.14**		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	< 0.077	U	0.077	1.0	**0.80**	J	0.077	1.0	**0.078**	J	0.077	1.0	< 0.077	U	0.077	1.0
Lithium	ug/L	QL (50)	40	QL (50)	**2.8**		0.50	2.5	**2.0**	J	0.50	2.5	**8.6**		0.50	2.5	**3.0**		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	< 0.12	U	0.12	0.20
Molybdenum	ug/L	QL (10)	100	QL (10)	**0.23**	J	0.13	1.0	< 0.13	U	0.13	1.0	**15.6**		0.13	1.0	**1.8**		0.13	1.0	**2.0**		0.13	1.0	**1.5**		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
Thallium	ug/L	QL (1)	2	2	< 0.050	U	0.050	0.20	**0.060**	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
Radium, Total	pCi/L	1.55	5	5	**0.931**	J+	--	--	**5.92**	J+	--	--	0.277	U	--	--	**1.06**	J	--	--	0.298	U	--	--	**1.14**	J	--	--
Field Parameters																												
Conductivity	uS/cm	--	--	--	117.1		0.1	0.1	462.5		0.1	0.1	587		0.1	0.1	425.1		0.1	0.1	645		0.1	0.1	779		0.1	0.1
Dissolved Oxygen	mg/L	--	--	--	1.07		0.01	0.01	0.87		0.01	0.01	0.50		0.01	0.01	0.37		0.01	0.01	0.21		0.01	0.01	0.24		0.01	0.01
Oxidation Reduction Potential	millivolts	--	--	--	94.6		0.1	0.1	172.7		0.1	0.1	-94.1		0.1	0.1	-9.2		0.1	0.1	-105.1		0.1	0.1	-73.8		0.1	0.1
Temperature	C	--	--	--	18.2		0.01	0.01	18.0		0.01	0.01	19.8		0.01	0.01	19.0		0.01	0.01	17.8		0.01	0.01	16.2		0.01	0.01
Turbidity	ntu	--	--	--	7.01		0.1	0.1	3.09		0.1	0.1	2.73		0.1	0.1	40.83		0.1	0.1	17.40		0.1	0.1	9.98		0.1	0.1

Notes:

BKG = Background
C = Degrees Celsius
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

Quals (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 analyzed for, but was not detected above the level of the reported sample quantitation limit

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

Table 3
Summary of 2023 1st Semi-Annual Assessment Monitoring Program Sampling Event Data
Chesterfield Power Station, Lower Ash Pond

					Downgradient								Field QC											
				Sample ID:	MW-36S				MW-B50				MW-25 Duplicate				Field Blank				Equipment Blank			
				Sample Date:	4/13/2023				4/12/2023				4/10/2023				4/10/2023				4/10/2023			
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)	--	--	**155**		12.4	50.0	**389**		12.4	50.0	< 12.4	U	12.4	50.0	< 12.4	U	12.4	50.0	< 12.4	U	12.4	50.0
Calcium	ug/L	63,900	--	--	**26900**		190	500	**89500**		190	500	**29400**		190	500	< 190	U	190	500	< 190	U	190	500
Chloride	mg/L	46	--	--	**57.3**		0.60	1.0	**81.0**		0.60	1.0	**5.7**		0.60	1.0	< 0.60	U	0.60	1.0	< 0.60	U	0.60	1.0
Fluoride	mg/L	0.281	4	4	**0.15**		0.050	0.10	**0.14**		0.050	0.10	**0.42**		0.050	0.10	< 0.050	U	0.050	0.10	< 0.050	U	0.050	0.10
pH	SU	4.63-6.72	--	--	6.39		0.01	0.01	6.48		0.01	0.01	--		0.01	0.01	--		0.01	0.01	--		0.01	0.01
Sulfate	mg/L	9.16	--	--	< 0.50	U	0.50	1.0	**60.9**		0.50	1.0	**0.81**	J	0.50	1.0	< 0.50	U	0.50	1.0	< 0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	450	--	--	**240**		25.0	25.0	**478**		25.0	25.0	**199**		25.0	25.0	< 25.0	U	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
Arsenic	ug/L	19.8	19.8	19.8	**13.8**		0.087	1.0	**0.76**	J	0.087	1.0	**8.7**		0.087	1.0	< 0.087	U	0.087	1.0	< 0.087	U	0.087	1.0
Barium	ug/L	318	2,000	2,000	**434**		0.84	10	**108**		0.84	10.0	**107**		0.84	10.0	< 0.84	U	0.84	10.0	< 0.84	U	0.84	10.0
Beryllium	ug/L	QL (1)	4	4	**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	< 0.17	U	0.17	4.0
Cadmium	ug/L	QL (1)	5	5	**0.80**	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	< 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	**13.0**		0.050	1.0	**0.99**	J	0.050	1.0	**0.66**	J	0.050	1.0	< 0.050	U	0.050	1.0	< 0.050	U	0.050	1.0
Fluoride	mg/L	0.281	4	4	**0.15**		0.050	0.10	**0.14**		0.050	0.10	**0.42**		0.050	0.10	< 0.050	U	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	< 0.077	U	0.077	1.0	**0.10**	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)	**0.81**	J	0.50	2.5	< 0.50	U	0.50	2.5	**1.8**	J	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)	**4.4**		0.13	1.0	**0.36**	J	0.13	1.0	**2.2**		0.13	1.0	< 0.13	U	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	**0.12**	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
Radium, Total	pCi/L	1.55	5	5	**1.20**	J	--	--	**0.479**	J	--	--	**1.12**	J	--	--	0.204	U	--	--	0.0799	U	--	--
Field Parameters																								
Conductivity	uS/cm	--	--	--	573		0.1	0.1	821		0.1	0.1	--				--				--			
Dissolved Oxygen	mg/L	--	--	--	1.00		0.01	0.01	0.99		0.01	0.01	--				--				--			
Oxidation Reduction Potential	millivolts	--	--	--	-71.4		0.1	0.1	16.9		0.1	0.1	--				--				--			
Temperature	C	--	--	--	16.9		0.01	0.01	19.1		0.01	0.01	--				--				--			
Turbidity	ntu	--	--	--	9.37		0.1	0.1	9.01		0.1	0.1	--				--				--			

Notes:
BKG = Background
C = Degrees Celsius
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

Quals (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 analyzed for, but was not detected above the level of the reported sample quantitation limit

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

Table 4
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Chesterfield Power Station, Lower Ash Pond

		Upgradient								Downgradient															
Sample ID:		MW-29U				MW-35S				MW-20				MW-21R				MW-22R				MW-23R				MW-25			
Sample Date:		10/11/2023				10/9/2023				10/12/2023				10/12/2023				10/12/2023				10/12/2023				10/13/2023			
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	**417**		32.4	50.0	**765**		32.4	50.0	**256**		32.4	50.0	<32.4	U	32.4	50.0	<32.4	U	32.4	50.0
Calcium	ug/L	**44000**		94.2	100	**5650**		94.2	100	**29100**		94.2	100	**64100**		94.2	100	**21500**		94.2	100	**56900**		94.2	100	**15300**		94.2	100
Chloride	mg/L	**14.9**		0.60	1.0	**12.5**		0.60	1.0	**19.6**		0.60	1.0	**48.2**		0.60	1.0	**21.8**		0.60	1.0	**3.0**		0.60	1.0	**6.1**		0.60	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.059**	J	0.050	0.10	**0.053**	J	0.050	0.10	**0.10**		0.050	0.10	<0.050	U	0.050	0.10	**0.34**		0.050	0.10	**0.22**		0.050	0.10
pH	SU	6.21		0.01	0.01	4.59		0.01	0.01	5.22		0.01	0.01	6.02		0.01	0.01	5.54		0.01	0.01	6.58		0.01	0.01	6.20		0.01	0.01
Sulfate	mg/L	<0.50	U	0.50	1.0	**4.9**		0.50	1.0	**127**		1.5	3.0	**93.1**		1.0	2.0	**30.0**		0.50	1.0	**1.1**		0.50	1.0	**7.8**		0.50	1.0
Total Dissolved Solids	mg/L	**400**		25.0	25.0	**114**		25.0	25.0	**269**		25.0	25.0	**433**		25.0	25.0	**180**		25.0	25.0	**306**		25.0	25.0	**133**		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	**0.26**	J	0.087	1.0	**0.59**	J	0.087	1.0	**0.38**	J	0.087	1.0	**8.6**		0.087	1.0	**18.2**		0.087	1.0
Barium	ug/L	**249**		3.5	5.0	**33.3**		3.5	5.0	**38.5**		3.5	5.0	**103**		3.5	5.0	**124**		3.5	5.0	**140**		3.5	5.0	**54.8**		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	<0.40	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	**0.50**	J	0.050	1.0	**62.2**		0.050	1.0	**6.3**		0.050	1.0	**13.1**		0.050	1.0	**1.8**		0.050	1.0	**2.4**		0.050	1.0
Fluoride	mg/L	**0.19**		0.050	0.10	**0.059**	J	0.050	0.10	**0.053**	J	0.050	0.10	**0.10**		0.050	0.10	<0.050	U	0.050	0.10	**0.34**		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	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	**0.15**	J	0.077	1.0	**0.21**	J	0.077	1.0
Lithium	ug/L	**0.62**	J	0.50	2.5	**3.6**		0.50	2.5	**2.3**	J	0.50	2.5	**0.86**	J	0.50	2.5	**2.3**	J	0.50	2.5	**0.72**	J	0.50	2.5	**2.6**		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	**0.50**	J	0.13	1.0	**0.74**	J	0.13	1.0	<0.13	U	0.13	1.0	<0.59	U	0.59	1.0	<0.16	U	0.16	1.0	**3.3**		0.13	1.0	**2.2**		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	**0.13**	J	0.050	0.20	**0.13**	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
Radium 226 and 228 (combined)	pCi/L	0.933	U	--	--	**1.8**		--	--	**1.49**	J	--	--	**1.33**	J	--	--	1.57	U	--	--	**2.17**	J	--	--	**0.719**	J	--	--
Field Parameters																													
Conductivity	uS/cm	843		0.1	0.1	123.3		0.1	0.1	451.7		0.1	0.1	752		0.1	0.1	300.8		0.1	0.1	562		0.1	0.1	216.0		0.1	0.1
Dissolved Oxygen	mg/L	0.16		0.01	0.01	5.56		0.01	0.01	0.17		0.01	0.01	0.08		0.01	0.01	1.26		0.01	0.01	0.59		0.01	0.01	0.51		0.01	0.01
Oxidation Reduction Potential	millivolts	-82.3		0.1	0.1	389.7		0.1	0.1	152.2		0.1	0.1	82.1		0.1	0.1	122.6		0.1	0.1	-63.1		0.1	0.1	-13.5		0.1	0.1
Temperature	C	19.5		0.01	0.01	18.7		0.01	0.01	19.0		0.01	0.01	18.3		0.01	0.01	18.3		0.01	0.01	18.8		0.01	0.01	18.1		0.01	0.01
Turbidity	ntu	21.6		0.1	0.1	45.3		0.1	0.1	9.92		0.1	0.1	19.35		0.1	0.1	13.15		0.1	0.1	30.41		0.1	0.1	9.78		0.1	0.1

		Downgradient																							
Sample ID:		MW-26				MW-27				MW-28				MW-32SR				MW-33R				MW-34			
Sample Date:		10/13/2023				10/13/2023				10/12/2023				10/12/2023				10/12/2023				10/13/2023			
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**
CCR Appendix III Constituents																									
Boron	ug/L	<32.4	U	32.4	50.0	**734**		32.4	50.0	**174**		32.4	50.0	<32.4	U	32.4	50.0	**404**		32.4	50.0	**633**		32.4	50.0
Calcium	ug/L	**11900**		94.2	100	**34900**		94.2	100	**73900**		94.2	100	**30800**		94.2	100	**32200**		94.2	100	**40000**		94.2	100
Chloride	mg/L	**10.6**		0.60	1.0	**99.0**		0.60	1.0	**25.2**		0.60	1.0	**18.1**		0.60	1.0	**30.7**		0.60	1.0	**64.7**		0.60	1.0
Fluoride	mg/L	**0.16**		0.050	0.10	**0.075**	J	0.050	0.10	**0.36**		0.050	0.10	**0.20**		0.050	0.10	**0.12**		0.050	0.10	**0.13**		0.050	0.10
pH	SU	5.60		0.01	0.01	5.61		0.01	0.01	7.18		0.01	0.01	6.16		0.01	0.01	6.80		0.01	0.01	6.77		0.01	0.01
Sulfate	mg/L	**8.8**		0.50	1.0	**54.5**		0.50	1.0	**21.4**		0.50	1.0	**64.0**		0.50	1.0	<0.50	U	0.50	1.0	<0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	**134**		25.0	25.0	**385**		25.0	25.0	**364**		25.0	25.0	**280**		25.0	25.0	**248**		25.0	25.0	**315**		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
Arsenic	ug/L	**0.62**	J	0.087	1.0	**0.21**	J	0.087	1.0	**202**		0.17	2.0	**7.7**		0.087	1.0	**11.0**		0.087	1.0	**10.1**		0.087	1.0
Barium	ug/L	**67.9**		3.5	5.0	**136**		3.5	5.0	**103**		3.5	5.0	**167**		3.5	5.0	**208**		3.5	5.0	**223**		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
Cadmium	ug/L	<0.40	U	0.40	1.0	**0.49**	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
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
Cobalt	ug/L	**7.9**		0.050	1.0	**3.3**		0.050	1.0	**1.2**		0.050	1.0	**3.3**		0.050	1.0	**1.1**		0.050	1.0	**2.5**		0.050	1.0
Fluoride	mg/L	**0.16**		0.050	0.10	**0.075**	J	0.050	0.10	**0.36**		0.050	0.10	**0.20**		0.050	0.10	**0.12**		0.050	0.10	**0.13**		0.050	0.10
Lead	ug/L	**0.081**	J	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0	**0.49**	J	0.077	1.0	**0.18**	J	0.077	1.0	<0.077	U	0.077	1.0
Lithium	ug/L	**3.8**		0.50	2.5	**1.8**	J	0.50	2.5	**12.8**		0.50	2.5	**3.3**		0.50	2.5	<0.50	U	0.50	2.5	<0.50	U	0.50	2.5
Mercury	ug/L	<0.12	U	0.12	0.20	**0.15**	J	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	<0.13	U	0.13	1.0	**20.3**		0.13	1.0	**1.9**		0.13	1.0	**1.7**		0.13	1.0	**2.0**		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
Thallium	ug/L	**0.054**	J	0.050	0.20	**0.22**		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	**0.676**	J	--	--	**5.7**	J	--	--	**1.28**	J	--	--	**2.69**	J	--	--	**0.391**	J	--	--	**1.34**	J	--	--
Field Parameters																									
Conductivity	uS/cm	233.2		0.1	0.1	601		0.1	0.1	714		0.1	0.1	481.5		0.1	0.1	752		0.1	0.1	760		0.1	0.1
Dissolved Oxygen	mg/L	0.99		0.01	0.01	0.74		0.01	0.01	0.25		0.01	0.01	0.04		0.01	0.01	0.00		0.01	0.01	0.26		0.01	0.01
Oxidation Reduction Potential	millivolts	91.4		0.1	0.1	240.5		0.1	0.1	-133.2		0.1	0.1	-30.2		0.1	0.1	-121.8		0.1	0.1	-130.0		0.1	0.1
Temperature	C	21.5		0.01	0.01	21.1		0.01	0.01	20.5		0.01	0.01	18.1		0.01	0.01	20.4		0.01	0.01	18.1		0.01	0.01
Turbidity	ntu	8.53		0.1	0.1	7.10		0.1	0.1	5.13		0.1	0.1	37.96		0.1	0.1	8.99		0.1	0.1	6.94		0.1	0.1

Notes:

BKG = Background
C = Degrees Celsius
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

Quals (Qual):
J = Quantitation is approximate due to limitations identified during data validation
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Table 4
Summary of 2023 2nd Semi-Annual Assessment Monitoring Program Sampling Event Data - Chesterfield Power Station, Lower Ash Pond

		Downgradient								Field QC											
Sample ID:		MW-36S				MW-B50				MW-36S Duplicate				Field Blank				Equipment Blank			
Sample Date:		10/12/2023				10/10/2023				10/12/2023				10/13/2023				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**
CCR Appendix III Constituents																					
Boron	ug/L	**173**		32.4	50.0	**383**		32.4	50.0	**180**		32.4	50.0	<32.4	U	32.4	50.0	<32.4	U	32.4	50.0
Calcium	ug/L	**22200**		94.2	100	**74100**		94.2	100	**23200**		94.2	100	<94.2	U	94.2	100	<94.2	U	94.2	100
Chloride	mg/L	**55.0**		0.60	1.0	**70.9**		0.60	1.0	**55.0**		0.60	1.0	<0.60	U	0.60	1.0	<0.60	U	0.60	1.0
Fluoride	mg/L	**0.089**	J	0.050	0.10	**0.14**		0.050	0.10	**0.14**		0.050	0.10	<0.050	U	0.050	0.10	<0.050	U	0.050	0.10
pH	SU	6.72		0.01	0.01	6.52		0.01	0.01	--		--	--	--		--	--	--		--	--
Sulfate	mg/L	<0.50	U	0.50	1.0	**64.7**		0.50	1.0	<0.50	U	0.50	1.0	<0.50	U	0.50	1.0	<0.50	U	0.50	1.0
Total Dissolved Solids	mg/L	**237**		25.0	25.0	**431**		25.0	25.0	**234**		25.0	25.0	<25.0	U	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	<0.20	U	0.20	1.0
Arsenic	ug/L	**17.7**		0.087	1.0	**0.88**	J	0.087	1.0	**17.4**		0.087	1.0	<0.087	U	0.087	1.0	<0.087	U	0.087	1.0
Barium	ug/L	**367**		3.5	5.0	**88.0**		3.5	5.0	**381**		3.5	5.0	<3.5	U	3.5	5.0	<3.5	U	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
Cadmium	ug/L	<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
Cobalt	ug/L	**13**		0.050	1.0	**0.87**	J	0.050	1.0	**12.7**		0.050	1.0	<0.050	U	0.050	1.0	<0.050	U	0.050	1.0
Fluoride	mg/L	**0.089**	J	0.050	0.10	**0.14**		0.050	0.10	**0.14**		0.050	0.10	<0.050	U	0.050	0.10	<0.050	U	0.050	0.10
Lead	ug/L	**0.14**	J	0.077	1.0	**0.14**	J	0.077	1.0	**0.13**	J	0.077	1.0	<0.077	U	0.077	1.0	<0.077	U	0.077	1.0
Lithium	ug/L	**0.76**	J	0.50	2.5	<0.50	U	0.50	2.5	**0.70**	J	0.50	2.5	<0.50	U	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
Molybdenum	ug/L	**4.3**		0.13	1.0	<0.53	U	0.53	1.0	**4.2**		0.13	1.0	<0.13	U	0.13	1.0	**0.24**	J	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
Thallium	ug/L	<0.050	U	0.050	0.20	**0.15**	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
Radium 226 and 228 (combined)	pCi/L	**1.66**	J	--	--	**1.10**	J	--	--	**2.67**	J	--	--	**1.39**	J	--	--	**0.973**	J	--	--
Field Parameters																					
Conductivity	uS/cm	595		0.1	0.1	805		0.1	0.1	--		--	--	--		--	--	--		--	--
Dissolved Oxygen	mg/L	1.86		0.01	0.01	1.42		0.01	0.01	--		--	--	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	-95.2		0.1	0.1	44.7		0.1	0.1	--		--	--	--		--	--	--		--	--
Temperature	C	18.5		0.01	0.01	20.5		0.01	0.01	--		--	--	--		--	--	--		--	--
Turbidity	ntu	6.60		0.1	0.1	9.58		0.1	0.1	--		--	--	--		--	--	--		--	--

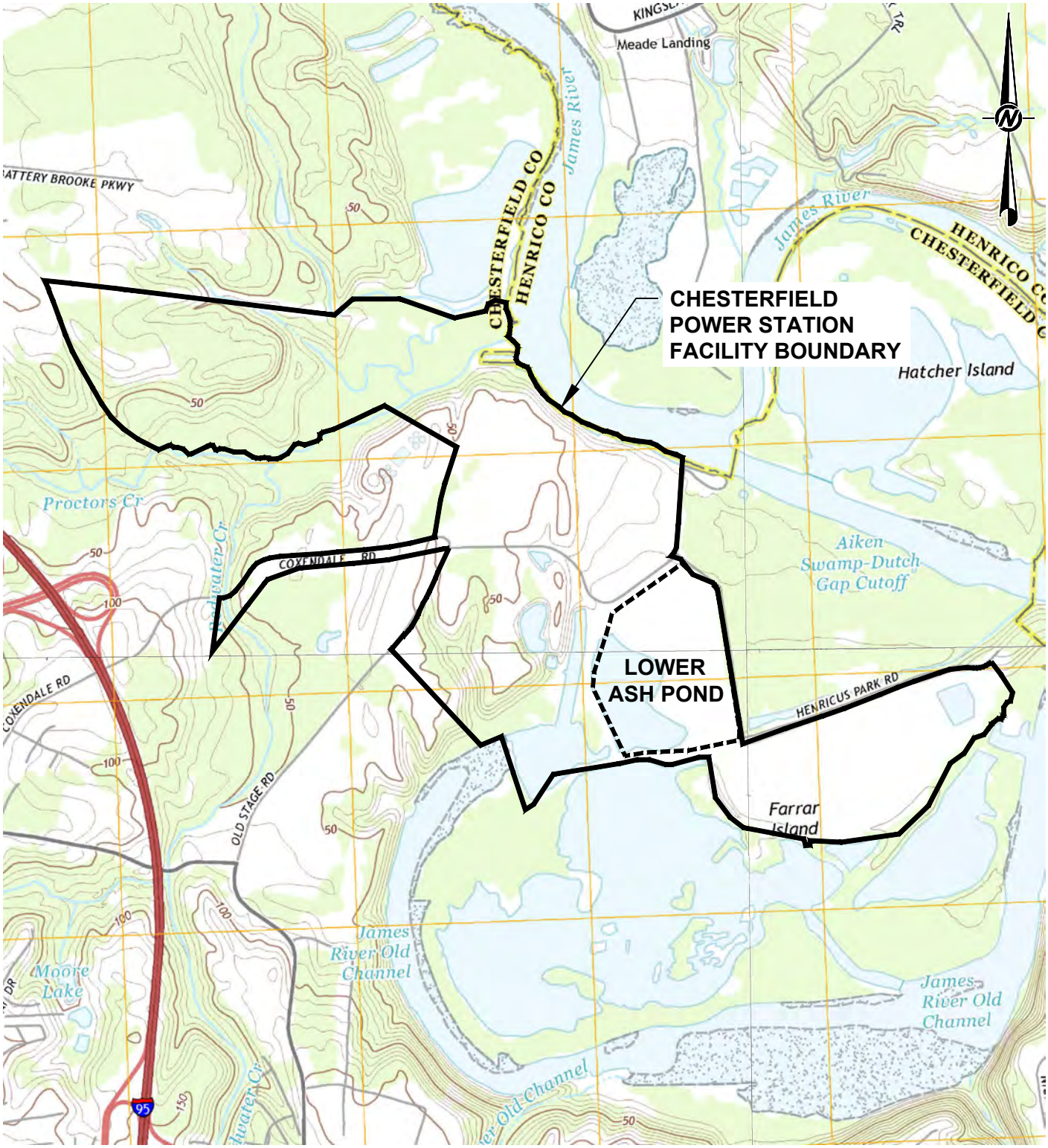
Notes:

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GWPS = Groundwater Protection Standards
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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

Quals (Qual):
J = Quantitation is approximate due to limitations identified during data validation
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

FIGURES



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
LOWER ASH POND

CONSULTANT
wsp

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

TITLE
SITE LOCATION MAP

PROJECT NO. 31406066.007
REV. 0
FIGURE 1

Path: G:\Plan Production Data Files\Drawing Data Files\31406066\080_CEC-GWA ctive Drawings\31406066_080_01.dwg

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

MW-35S
(6.82)

MW-20
(2.76)

MW-20I

BF-4

MW-28
(2.68)

MW-21I

MW-21R
(3.15)

MW-B50
(2.74)

APPROX. LIMITS
OF EX. RAIN COVER

MW-22R
(3.34)

MW-27
(1.94)

MW-32SR
(3.41)

ASSUMED ELEVATION OF
9.9 FEET AMSL BASED ON
SITE KNOWLEDGE

$i\ gw_2 = 800'$

LOWER
ASH POND

MW-26
(2.03)

MW-23R
(1.01)

$i\ gw_1 = 186'$

MW-25
(2.02)

MW-29U
(2.42)

APPROX. LIMITS
OF EX. RAIN COVER

MW-33R
(3.19)

MW-34
(1.55)

MW-36 (S)
(0.31)

300 0 300
SCALE FEET

LEGEND

- DOMINION PROPERTY BOUNDARY
- FACILITY BOUNDARY
- 40 — EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
- RPA — RESOURCE PROTECTION AREA BOUNDARY
- MW-20 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-20I — OBSERVATION WELL LOCATION AND IDENTIFICATION
- 10 — GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- ESTIMATED GROUNDWATER FLOW DIRECTION
- $i\ gw_1 = 181'$ — GROUNDWATER PATH LENGTH (FEET)
- (2.76) — STATIC GROUNDWATER ELEVATION (FEET AMSL)

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

PROJECT
CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
LOWER ASH POND

TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
UPPERMOST 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

Path: G:\Plan Production Data Files\Drawing Data Files\31-406\06\080_CEC-GWA\Active Drawings\31406066_080_07.dwg

MW-35S
(6.76)

MW-20
(2.16)

MW-20I

BF-4

MW-28
(2.49)

MW-21I

MW-21R
(1.97)

MW-B50
(2.58)

APPROX. LIMITS
OF EX. RAIN COVER

MW-22R
(1.59)

MW-27
(0.61)

MW-32SR
(1.83)

ASSUMED ELEVATION OF
9.9 FEET AMSL BASED ON
SITE KNOWLEDGE

$i\ gw_2 = 748'$

LOWER
ASH POND

MW-26
(0.88)

MW-23R
(1.94)

$i\ gw_1 = 153'$

MW-25
(1.78)

MW-29U
(0.03)

APPROX. LIMITS
OF EX. RAIN COVER

MW-33R
(3.19)

MW-34
(1.79)

MW-36 (S)
(2.11)

300 0 300
SCALE FEET

LEGEND

- DOMINION PROPERTY BOUNDARY
- FACILITY BOUNDARY
- 40 — EXISTING TOPOGRAPHIC CONTOURS (2' INTERVALS)
- RPA — RESOURCE PROTECTION AREA BOUNDARY
- MW-20 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-20I — OBSERVATION WELL LOCATION AND IDENTIFICATION
- 10 — GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- ESTIMATED GROUNDWATER FLOW DIRECTION
- $i\ gw_1 = 181'$ — GROUNDWATER PATH LENGTH (FEET)
- (2.16) — STATIC GROUNDWATER ELEVATION (FEET AMSL)

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

CLIENT
DOMINION ENERGY

CONSULTANT
WSP

PROJECT
CHESTERFIELD POWER STATION
CHESTERFIELD COUNTY, VIRGINIA
LOWER ASH POND

TITLE
GROUNDWATER POTENTIOMETRIC SURFACE MAP
UPPERMOST AQUIFER
OCTOBER 9, 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

Path: G:\Plan Production Data Files\Drawing Data Files\31406066\080_CEC-GWA\Active Drawings\31406066_080_06.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 LAP

Project No./Task No.: 31406066.007

Sampler(s): L. 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-20	MK	1234	18.54	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-21R	MK	1312	17.73	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-22R	MK	1258	16.65	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-23R	MK	1251	16.13	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-25	CM	1037	10.62	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-26	MK	1034	7.68	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-27	MK	0941	15.21	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-28	MK	1228	19.33	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-30	MK	1412	23.09	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-32R	MK	1303	14.47	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-33R	MK	1245	17.16	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-34	CM	0938	8.15	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-36S	CM	1449	14.40	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-200	MK	1437	4.71	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
MW-35S	MK	1448	50.99	—	☑ 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

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

Signature: M. Knez

Date: 04/20/23

QA/QC Signature:

Date: 4/20/23

MICROPURGE SAMPLING LOG

Date: 4/14/23
Weather: Sunny, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR LAP
Sampler(s): M. Kner
Well ID: MW-20
Field Calibration Completed: 4/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 17.61 feet
Depth to Bottom: ——— feet
Water Column Thickness: ——— feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS16E100132
- ☐ 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
0942	5.04	464.5	119.21	3.50	17.7	144.9	17.70	~300
0945	5.06	483.7	50.32	1.76	17.8	147.2	17.65	~300
0948	5.07	484.9	24.50	1.57	17.8	147.9	17.71	~300
0951	5.07	485.9	30.08	1.40	17.8	149.7	17.67	~300
0954	5.07	486.0	17.69	1.32	17.8	150.2	17.65	~300
0957	5.08	486.1	9.42	1.23	17.8	151.2	17.67	~300
1000				SAMPLE				
1012	5.09	488.8	6.94	1.14	18.0	152.2	17.65	~300

Purge Cycle (End): 14/6 seconds @ ~~30~~ 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): ~0.18
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0935

Sample Date/Time: 1000
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 = 29.48
Sample ID: 041423NMW20

Sampler Signature: M. Kner Date: 4/14/23
QA/QC Signature: M. Kner Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/14/23
Weather: Cloudy, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): M. Knee
Well ID: MW-21R
Field Calibration Completed: 4/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 17.79 feet
Depth to Bottom: ~~——~~ feet
Water Column Thickness: ~~——~~ feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI ProDSS 16E100132
- ☐ 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
1035	5.66	536	401.18	1.14	17.3	144.3	17.81	~300
1040	5.76	547	154.41	0.74	17.4	~~150~~ 130.2	17.83	~200
1045	5.79	551	92.44	0.52	17.3	120.4	17.85	~200
1050	5.82	554	59.40	0.56	17.4	116.7	17.81	~200
1055	5.83	555	39.41	0.54	17.5	112.0	17.85	~200
1100	5.83	555	25.22	0.41	17.5	111.0	17.83	~200
1105	5.84	555	18.64	0.61	17.6	111.6	17.81	~200
1110	5.85	555	9.84	0.56	17.5	112.0	17.83	~200
1115	~~——~~	~~——~~	~~——~~	SAMPLE	~~——~~	~~——~~	~~——~~	~~——~~
1135	5.86	560	6.47	0.63	17.8	109.9	17.81	~200

Purge Cycle (End): 25/5 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): ~3.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1030
Sample Date/Time: 1115
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 = 30.98
Sample ID: 041423NMW21R DON'T purge @ 300 mL/min as it will get turbid
Sampler Signature: M. Knee Date: 4/14/23 Page 1 of 1
QA/QC Signature: M. Knee Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/14/23
Weather: overcast, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ISA23 LAP CCR
Sampler(s): C. Miguez
Well ID: MW-22R
Field Calibration Completed: 4/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 16.65 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS 16E100132
- ☐ 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
1254	5.59	246.0	20.96	1.48	19.5	146.8	16.80	~200
1259	5.58	246.1	16.92	1.12	18.6	150.7	16.83	~200
1304	5.58	247.8	14.22	1.09	18.6	150.6	16.87	~200
1309	5.58	249.0	10.67	1.10	18.6	151.1	16.89	~200
1314	6.58	249.7	9.83	1.19	18.5	152.2	16.92	~200
1315	—	S	A	M	P	L	E	—
1330	5.60	252.9	11.67	1.58	18.8	155.5	16.90	~200

Purge Cycle (End): 25/5 seconds @ 30 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): 0.22
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1315

Sample Date/Time: 04/14/23 @ 1315
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 = 36.02
Sample ID: 041423NMW22R

Sampler Signature: [signature] Date: 04/14/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Cloudy 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: ~~MW-23R~~ ISA23 LAPCCR
Sampler(s): C. Meyer
Well ID: MW-23R
Field Calibration Completed: 04/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 15.00 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS/1841005/10
- ☐ 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
0858	6.29	594	131.15	0.79	17.7	-10.4	22.56	~300
0903	6.39	552	102.20	0.61	17.8	-18.9	25.40	~300
0908	6.44	538	92.31	0.57	17.8	-22.3	27.32	~200
0913	6.47	535	78.50	0.55	17.6	-23.1	28.05	~200
0918	6.47	527	69.69	0.77	17.8	-24.2	28.30	~200
0923	6.47	533	52.54	0.75	17.8	-25.5	29.11	~200
0928	6.49	530	40.52	0.71	17.8	-28.7	30.28	~200
0933	6.49	527	41.68	0.67	17.8	-30.8	31.50	~200
0938	6.49	527	39.00	0.64	17.9	-31.9	31.92	~200
0943	6.50	528	37.56	0.60	18.0	-34.0	32.17	~200
0948	6.50	527	35.86	0.66	18.0	-36.0	32.86	~200
0950	—	S	A	M	P	L	E	—
1007	6.55	515	16.96	0.77	18.0	-40.6	33.08	~200

Purge Cycle (End): 53/7 seconds @ 30 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): 45.56 (0.006) = ~0.27
Total Purge Volume (Gallons): ~3.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Lt. tan grab Sample
Purge Time: 0844
Sample Date/Time: 04/14/23 @ 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 = 45.56
Sample ID: 041423MW23R

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

MICROPURGE SAMPLING LOG

Date: 04/10/23
Weather: Sunny 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): C. Megee
Well ID: MW-25
Field Calibration Completed: 04/10/23 @ 0855
Well Diameter: 2.0 inches
Initial Depth to Water: 10.62 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI PRODSS/18X100510
- ☐ 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
1047	6.07	387.4	17.42	1.21	16.5	-15.2	10.74	~300
1050	6.07	389.9	14.50	1.05	16.6	-21.3	10.80	~300
1053	6.06	385.0	11.29	0.96	16.6	-26.7	10.78	~300
1056	6.06	380.9	10.85	0.90	16.5	-30.2	10.77	~300
1059	6.07	369.8	9.17	0.79	16.5	-34.7	10.75	~300
1102	6.07	365.7	9.84	0.75	16.5	-36.2	10.75	~300
1105	6.07	360.0	8.33	0.71	16.5	-37.2	10.76	~300
1110	—	S	A	M	P	L	E	—
1135	6.19	331.9	6.23	0.79	17.1	-46.2	10.85	~300

Purge Cycle (End): 13/7 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): 51.64 (0.006) = ~0.31
Total Purge Volume (Gallons): ~2.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 1040

Sample Date/Time: 04/10/23 @ 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 = 51.64'
Sample ID: 041023NMW25

Sampler Signature: [signature] Date: 04/10/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/10/23
Weather: sunny, 50s

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): M. Knez
Well ID: MW-26
Field Calibration Completed: 4/10/23 @ 0855
Well Diameter: 2.0 inches
Initial Depth to Water: 7.68 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
1045	5.89	126.0	7.18	2.00	17.3	150.7	8.08	~250
1050	5.86	123.7	26.55	1.64	17.6	150.7	8.12	~250
1055	5.84	120.4	35.41	1.53	17.7	144.2	8.15	~250
1100	5.83	118.5	31.88	1.40	17.9	132.0	8.14	~250
1105	5.82	118.8	20.77	1.27	18.1	115.9	8.17	~250
1110	5.81	118.4	~~mw~~ 11.97	1.19	18.1	104.5	8.16	~250
1115	5.80	117.5	10.87	1.14	18.1	98.3	8.17	~250
1120	5.80	117.1	7.01	1.07	18.2	94.6	8.20	~250
1125	—	—	—	SAMPLE	—	—	—	—
1143	5.82	115.5	4.04	1.80	18.7	96.1	8.34	~250

Purge Cycle (End): 2515 seconds @ 25 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): ~0.16
Total Purge Volume (Gallons): ~3.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1035
Sample Date/Time: 1125
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 = 26.98
Sample ID: 041023NMW26

Sampler Signature: M. Knez Date: 4/10/23
QA/QC Signature: M. Knez Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/10/23
Weather: sunny, 50's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): M. Knez
Well ID: MW-27
Field Calibration Completed: 4/10/23 @ 0855
Well Diameter: 2.0 inches
Initial Depth to Water: 15.21 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProSS19E104904
- ☐ 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
0948	5.65	462.2	5.04	1.36	17.9	184.3	15.43	~380
0951	5.68	460.3	4.70	1.08	18.0	177.7	15.50	~380
0954	5.70	458.9	3.83	0.94	18.1	173.9	15.47	~380
0957	5.71	462.5	3.09	0.87	18.0	172.7	15.49	~380
1000	—	—	—	SAMPLE	—	—	—	—
1010	~~5.9~~ 5.77	465.9	1.91	~~0.mg~~ 1.77	18.3	174.5	15.52	~380

Purge Cycle (End): 15/5 seconds @ 25 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): 0.16
Total Purge Volume (Gallons): ~2.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0942

Sample Date/Time: 1000
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 = 26.18
Sample ID: 041023NMW27

Sampler Signature: M. Knez Date: 4/10/23
QA/QC Signature: M. Kink Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/14/23
Weather: overcast, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): M. Knez
Well ID: MW-28
Field Calibration Completed: 4/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 19.42 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS 16E100132
- ☐ 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
0840	7.19	647	43.69	1.36	19.6	-96.0	19.45	~200
0845	7.23	643	34.05	0.89	19.8	-113.3	19.52	~300
~~0845 MW-28~~	7.19	630	11.09	0.72	19.8	-113.9	19.49	~300
0855	7.15	617	6.27	0.70	19.8	-109.2	19.50	~300
0900	7.07	598	3.01	0.60	19.8	-100.6	19.51	~300
~~0905 MW-03~~ 0903	7.04	591	2.62	0.54	19.8	-96.5	19.50	~300
0906	7.01	587	2.73	0.50	19.8	-94.1	19.48	~300
0910	—	—	—	—	SAMPLE	—	—	—
0920	6.94	567	3.35	0.45	19.8	-82.7	19.60	~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): ~0.18
Total Purge Volume (Gallons): ~4.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 0832

Sample Date/Time: 0910
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 = 30.20
Sample ID: 041423NMW28

Sampler Signature: M. Knez Date: 4/14/23
QA/QC Signature: M. Robert 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 LAB + UAP CCR
Sampler(s): M. Knez
Well ID: MW-29U
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
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI ProDSS#E04904
- ☐ 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
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				
1155	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 min~~ 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 tan
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: 041223N/MW29U

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

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Cloudy 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR-LAP
Sampler(s): C Megee
Well ID: MW-325R
Field Calibration Completed: 04/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 15.42 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☑ YSI 2SODSS18K100510
- ☐ 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
1033	6.25	523	84.27	0.97	18.2	0.9	16.50	~380
1038	6.29	510	46.89	0.50	18.1	-13.8	17.18	~380
1043	6.24	485.6	208.22	0.32	18.1	-20.0	17.50	~380
1048	6.17	459.4	376.23	0.27	18.1	-18.0	~~18~~ 17.20	~380
1053	6.14	446.6	323.17	0.46	18.5	-15.6	17.28	~200
1058	6.11	441.8	256.26	0.51	18.6	-11.8	16.82	~200
1103	6.08	437.2	192.74	0.50	18.7	-9.5	16.25	~200
1108	6.08	435.8	153.01	0.48	18.7	-9.2	16.05	~200
1113	6.05	434.8	124.85	0.45	18.7	-6.5	16.00	~200
1118	6.04	432.7	95.66	0.40	18.7	-5.9	16.00	~200
1123	6.05	432.1	82.00	0.46	18.7	-6.3	16.02	~200
1128	6.06	431.0	76.21	0.42	18.6	-6.8	15.98	~200
1133	6.07	429.8	64.68	0.39	18.7	-7.3	15.95	~200
1138	6.05	428.0	64.50	041	18.7	-6.3	15.98	~200
1143	6.06	428.7	48.20	0.43	18.7	-7.0	16.00	~200
1148	6.07	425.7	46.83	0.43	18.8	-7.1	16.00	~200
1153	6.08	425.9	49.56	0.41	18.9	-7.8	16.00	~200
1158	6.09	425.6	45.77	0.38	18.9	-8.1	1600	~200
1203	6.10	425.4	41.10	0.39	18.9	-8.6	16.00	~200

Purge Cycle (End): 53/7 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): 45.20 (0.006) = ~0.27
Total Purge Volume (Gallons): ~5.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): lt. tan grab sample
Purge Time: 1025

Sample Date/Time: 04/14/23 @ 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 = 45.20
Sample ID: 041423NMW325R

Sampler Signature: [signature] Date: 04/14/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Cloudy 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR - LAP
Sampler(s): C. Meyer
Well ID: MW-325R
Field Calibration Completed: 04/14/23 @ 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 15.42 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS/FT/K100510
- ☐ 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
1208	~~120~~ 6.10	425.4	43.97	0.40	18.9	-8.9	16.04	~200
1213	6.11	425.1	40.83	0.37	19.0	-9.2	16.05	~200
1215	—	S	A	M	P	L	E	—
1240	6.13	431.3	36.72	0.44	19.9	-9.9	16.00	~200

Purge Cycle (End): 53/7 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): 45.20(0.006) = ~0.27
Total Purge Volume (Gallons): ~5.5
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): lt. tan grab Sample
Purge Time: 1025

Sample Date/Time: 04/14/23 @ 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 = 45.20
Sample ID: 041423NMW325R

Sampler Signature: [signature] Date: 04/14/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/14/23
Weather: Overcast, 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR LAP
Sampler(s): M. Weideman
Well ID: MW-33R
Field Calibration Completed: 0715
Well Diameter: 2.0 inches
Initial Depth to Water: 16.83 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
0908	6.47	651	19.80	0.39	17.5	-102.9	19.50	~400
0911	6.58	624	17.25	0.27	17.7	-109.0	19.43	~400
0914	6.59	626	15.92	0.26	17.7	-108.5	19.45	~400
0917	6.57	631	16.62	0.23	17.7	-108.7	19.44	~400
0920	6.56	637	14.01	0.20	17.7	-108.9	19.45	~400
0923	6.56	642	12.78	0.18	17.7	-111.2	19.45	~400
0926	6.56	643	11.43	0.17	17.7	-112.3	19.45	~400
0929	6.57	644	15.80	0.17	17.7	-113.1	19.46	~400
0932	6.57	643	19.86	0.16	17.7	-113.7	19.45	~300
0935	6.57	643	20.01	0.16	17.8	-113.0	19.45	~300
0938	6.58	643	26.48	0.14	17.7	-113.2	19.45	~300
0941	6.57	644	35.31	0.14	17.8	-113.1	19.45	~300
0946	6.58	644	25.80	0.20	17.9	-111.7	19.45	~150
0951	6.58	644	20.48	0.22	17.8	-110.6	19.46	~150
0956	6.57	644	17.83	0.22	17.8	-107.7	19.46	~150
1001	6.57	645	14.22	0.22	17.8	-106.2	19.45	~150
1006	6.57	645	17.40	0.21	17.8	-105.1	19.45	~150
1010	—	—	—	SAMPLE	—	—	—	—
1039	6.62	645	15.53	0.51	18.5	-87.5	19.45	~150

change to 5 min * readings

Purge Cycle (End): 51/9 seconds @ 40 psi
Flow Rate (ml/min End): ~150
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (42.38)(0.006) = 0.25
Total Purge Volume (Gallons): ~5.25
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Mostly clear grab sample
Purge Time: 0900
Sample Date/Time: 1010
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 = (42.38)
Sample ID: 041423NMW33R

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

MICROPURGE SAMPLING LOG

Date: 04/10/23
Weather: Sunny 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAD CCR
Sampler(s): C. Meyer
Well ID: MW-34
Field Calibration Completed: 4/10/23 @ 0855
Well Diameter: 2.0 inches
Initial Depth to Water: 8.15 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- ☑ WL Indicator
- ☐ Turbidity Meter
- ☐ Air Tank
- ☑ Dedicated Bladder Pump
- ☑ YSI Pro DSS 18K 100510
- ☐ 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
0948	6.12	793	11.67	1.05	15.9	11.0	8.42	~300
0951	6.23	792	8.76	0.97	16.0	-19.5	8.54	~300
0954	6.32	789	6.91	0.84	16.1	-40.6	8.56	~300
0957	6.37	788	7.97	0.62	16.1	-53.4	8.55	~300
1000	6.41	783	8.33	0.60	16.1	-65.4	8.55	~300
1003	6.45	782	7.58	0.57	16.2	-70.2	8.57	~300
1006	6.47	779	9.98	0.24	16.2	-73.8	8.59	~300
1010	—	S	A	M	P	L	E	—
1024	6.51	775	9.88	0.16	16.3	-91.6	8.62	~300

Purge Cycle (End): 14/6 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): 25.93 (0.006) = ~0.16
Total Purge Volume (Gallons): ~2.0
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge Time: 0943
Sample Date/Time: 04/10/23 @ 1010
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 = 25.93'
Sample ID: 041023NMW34

Sampler Signature: [signature] Date: 04/10/23
QA/QC Signature: M. Kmit 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. Kmetz
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 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)^{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): 22/8 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. Kmetz Date: 4/12/23
QA/QC Signature: M. Kmetz Date: 04/17/23

MICROPURGE SAMPLING LOG

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

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 CCR LAP
Sampler(s): M. Weideman
Well ID: MW-36S
Field Calibration Completed: 0825 on 04/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 12.63 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
0930	6.29	576	12.73	1.30	16.8	-76.2	12.62	~300
0933	6.35	571	11.71	1.07	16.8	-75.9	12.60	~300
0942	6.38	571	9.90	1.26	17.2	-68.5	12.58	~300
0945	6.39	573	9.37	1.00	16.9	-71.4	12.61	~300
0950	———	———	——— SAMPLE	———	———	———	———	———
1005	6.44	571	5.81	1.15	16.8	-74.2	12.60	~300

Change air tank *

Purge Cycle (End): 25/5 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): (19.21)(0.006) = 0.16
Total Purge Volume (Gallons): ~1.75
Purge Water Management: on-site containment
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 0925
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 = 19.21
Sample ID: 041323NMW36S

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

MICROPURGE SAMPLING LOG

Date: 4/10/23
Weather: sunny, 70s

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): M. Knez / 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 MK
- ☐ In-Situ —
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box MK
- ☑ Dedicated Bladder Pump MK
- ☐ 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
1205	—	—	—	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 by MW-26 using lab provided D.I. Water
Purge Time:
Sample Date/Time: 1205
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: 041023FBLAP

Sampler Signature: M. Knez Date: 4/10/23
QA/QC Signature: M. Winslow Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 04/10/23
Weather: Sunny 60's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA2023 LAP CCR
Sampler(s): C. Magee
Well ID: FDLAP
Field Calibration Completed: —
Well Diameter: 2 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
1125	—	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-25
Purge Time: —

Sample Date/Time: 04/10/23 @ 1125
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: 041023FDLAP

Sampler Signature: [signature] Date: 04/10/23
QA/QC Signature: [signature] Date: 04/17/23

MICROPURGE SAMPLING LOG

Date: 4/10/23
Weather: Sunny, 70's

Project Name: Dominion - Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 1SA23 LAP CCR
Sampler(s): C. Magee / M. Knez
Well ID: Equipment 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~~ — MK
- ☐ In-Situ _____
- ☐ Turbidity Meter
- ☐ Peristaltic Pump
- ☐ MP-10 Controller Box
- ☐ Air Tank
- ☐ Compressor
- ☑ MP-15 Controller Box MK
- ☑ ~~Dedicated Bladder Pump~~ MK
- ☐ 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
1200	—	—	—	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 by MW-27 using lab provided D.I. water and poured over WL indicator
Purge Time:
Sample Date/Time: 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 = —
Sample ID: 041023EBLAP

Sampler Signature: C. Magee Date: 4/11/23
QA/QC Signature: M. Knez Date: 04/17/23

APPENDIX A.2

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

Date: 10/16/2023 (09/10/16/23 JD)

WELL GAUGING LOG

Project Name: CPS LAP 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-20	JD/TT/MW	0951	19.14	37.82	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-21R	JD/TT/MW	0958	18.91	35.74	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-22R	JD/TT/MW	1004	18.40	41.91	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-23R	JD/TT/MW	1012	15.20	51.40	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-25	JD/TT/MW	1146	10.86	56.06	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-26	JD/TT/MW	1136	8.83	30.64	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-27	JD/TT/MW	1121	16.54	32.18	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-28	JD/TT/MW	0915	19.52	37.28	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-B50	JD/TT/MW	0902	23.25	30.62	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-32SR	JD/TT/MW	1115	16.05	51.70	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-33R	JD/TT/MW	1102	17.16	46.55	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-34	JD/TT/MW	1158	7.91	29.57	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-36S	JD/TT/MW	1125	12.60	26.42	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
MW-36I	JD/TT/MW	1130	12.60	60.30	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
				01/04/24 JD	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
				01/04/24 JD	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
				01/04/24 JD	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes:

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

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

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

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Overcast, 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR ~~+ 4023 VPDES~~ + UAP
Sampler(s): M. Wideman
Well ID: MW-20
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 20 inches
Initial Depth to Water: 19.15 feet
Depth to Bottom: 37.82 feet
Water Column Thickness: ——— feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI Pro DSS 17M102880
- [ ] 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
1100	5.23	415.5	118.18	2.18	19.0	151.1	19.21	~300
1103	5.22	415.5	80.76	1.91	18.9	152.0	19.20	~300
1106	5.22	433.8	78.67	1.77	18.9	151.3	19.20	~300
1109	5.23	427.3	48.87	1.47	18.9	151.0	19.20	~300
1112	5.22	430.8	44.42	1.38	18.9	152.1	19.20	~300
1115	5.22	434.2	35.66	1.27	18.9	153.1	19.21	~300
1118	5.22	444.0	22.26	0.49	19.0	153.5	19.21	~300
1121	5.22	442.6	19.52	0.29	18.9	152.4	19.20	~300
1124	5.22	448.2	14.61	0.35	18.9	152.5	19.19	~300
1127	5.22	451.7	9.92	0.17	19.0	152.2	19.20	~300
1130	———	———	———	SAMPLE	———	———	———	———
1144	5.22	460.7	8.62	0.31	19.1	152.1	19.18	~300

Purge Cycle (End): 14/6 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): (29.48)(0.006)=0.18
Total Purge Volume (Gallons): ———
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample. Purged a bit before taking readings due to iron bacteria.
Purge Time: 1053
Sample Date/Time: 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 = 29.48
Sample ID: 101223NMW20

Sampler Signature: M. Wideman Date: 10/12/23
QA/QC Signature: J. M Date: 10/13/23

MICROPURGE SAMPLING LOG

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

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - ~~GAP~~ LAP
Sampler(s): Z. Mondshine
Well ID: MW-21R
Field Calibration Completed: 0615 10/12/23
Well Diameter: 2 inches
Initial Depth to Water: 18.92 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 23B10500 1
- [ ] 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
1015	6.03	754	241.84	0.47	18.0	76.8	18.96	~250
1020	6.02	753	123.66	0.28	18.0	80.2	18.97	~250
1025	6.02	752	91.69	0.22	18.0	80.2	18.97	~250
1030	6.02	751	65.22	0.18	18.0	80.2	18.97	~250
1035	6.02	752	41.75	0.14	18.1	79.9	18.97	~250
1040	6.02	753	30.92	0.12	18.1	80.1	18.97	~250
1045	6.02	753	22.82	0.11	18.2	80.3	18.97	~250
1050	6.02	754	24.08	0.09	18.2	80.3	18.98	~250
1055	6.02	754	20.15	0.12	18.4	81.0	18.98	~250
1100	6.02	753	19.81	0.09	18.3	81.4	18.98	~250
1105	6.02	753	18.79	0.08	18.3	81.7	18.98	~250
1110	6.02	752	19.35	0.08	18.3	82.1	18.98	~250
1115	—	—	— SAMPLE	—	—	—	—	—
1130	6.02	753	14.24	0.27	18.4	84.1	18.96	~250

Purge Cycle (End): 25/5 seconds @ 25 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): 0.19
Total Purge Volume (Gallons): ~4.25
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1007

Sample Date/Time: 1115 10/12/23
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 = 30.95
Sample ID: 101223NMW21R

Sampler Signature: [signature] Date: 10/12/23
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 ~~LAP~~ LAP
Sampler(s): Z. Mandshine
Well ID: MW-22R
Field Calibration Completed: 0915 10/12/23
Well Diameter: 20 inches
Initial Depth to Water: 18.43 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS 22B105001
- [ ] 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
1201	5.55	277.5	90.57	0.82	19.0	115.4	18.62	~200
1206	5.56	282.1	68.03	0.82	19.2	103.6	18.72	~200
1211	5.57	282.6	59.04	1.53	20.4	102.9	18.60	~200
1216	5.59	282.3	45.67	2.28	21.0	102.4	18.63	~200
1221	5.59	282.5	40.98	2.25	21.3	103.9	18.65	~200
1226	5.58	284.3	34.65	2.12	21.4	104.7	18.65	~200
1231	5.58	285.6	54.37	2.05	21.2	106.7	18.67	~200
1236	5.58	286.3	48.15	1.99	21.3	107.9	18.68	~200
1241	5.57	286.0	36.36	1.62	21.0	110.2	18.70	~200
1246	5.57	287.9	31.57	1.83	21.0	110.3	18.66	~200
1251	5.56	287.4	28.06	1.69	21.0	111.8	18.67	~200
1256	5.57	289.0	28.33	1.82	21.1	111.8	18.66	~200
1301	5.54	289.4	30.54	1.06	20.6	115.3	18.65	~200
1306	5.53	289.0	32.36	0.86	18.5	119.3	18.67	~330
1311	5.54	291.6	19.95	1.01	18.3	118.6	18.69	~330
1314	5.54	292.2	13.67	1.00	18.3	118.2	18.70	~330
1317	5.54	295.4	11.26	1.10	18.2	118.8	18.71	~330
1320	5.54	297.7	13.98	1.21	18.3	119.9	18.72	~330
1323	5.54	298.8	12.23	1.28	18.2	121.4	18.75	~330

IC out of range
after 3 min readings

Purge Cycle (End): 15/5 seconds @ 30 psi
Flow Rate (ml/min End): ~330
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.22
Total Purge Volume (Gallons): ~4.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1156

Sample Date/Time: 10/12/23 @ 1330
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 = 36.06
Sample ID: 101223NMW22R

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

MICROPURGE SAMPLING LOG

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

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - LAP
Sampler(s): Z. Mondshine
Well ID: MW-22R
Field Calibration Completed: 0616 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 18.43 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI 21005523B105a
- [ ] 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
1326	5.53	299.7	12.75	1.25	18.3	122.2	18.76	~330
1329	5.54	300.8	13.15	1.26	18.3	122.6	18.76	~330
1330		3	SAMPLE					
1345	5.54	305.5	15.62	1.52	18.2	124.0	18.85	~330

Purge Cycle (End): 1515 seconds @ 30 psi
Flow Rate (ml/min End): ~330
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.22
Total Purge Volume (Gallons): ~4.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge Time: 1156

Sample Date/Time: 1330 10/12/23
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: TP = 36.06
Sample ID: 101223MWN22R

Sampler Signature: [signature] Date: 10/12/23
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 - LAP
Sampler(s): J. DAVIS
Well ID: MW-232
Field Calibration Completed: 10/12/2023 @ 0615
Well Diameter: 2.0 inches
Initial Depth to Water: 14.46 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
1550	6.60	730	59.84	0.51	19.6	-120.7	18.66	~100
1555	6.62	733	50.93	0.48	19.7	-120.6	19.27	~125
1600	6.62	722	76.98	0.64	19.5	-111.9	20.31	~125
1605	6.59	646	34.08	0.95	19.3	-84.6	21.68	~125
1610	6.56	617	37.75	0.62	19.3	-76.8	22.27	~125
1615	6.57	595	34.85	0.98	19.2	-69.0	23.23	~125
1620	6.56	590	34.95	0.63	19.1	-65.9	24.21	~125
1625 ~~1618~~	6.55	584	36.47	0.67	19.1	-60.3	25.38	~125
1630	6.57	578	36.75	0.61	19.0	-62.8	26.24	~125
1635	6.57	568	36.85	0.62	19.0	-61.2	27.10	~125
1640	6.57	563	35.34	0.60	19.0	-59.9	27.78	~125
1645	6.57	562	36.71	0.58	19.0	-60.2	28.43	~125
1650	6.57	561	32.41	0.49	18.9	-60.9	29.22	~125
1655	6.57	561	34.56	0.50	18.9	-62.0	29.95	~125
1700	6.58	562	30.41	0.59	18.8	-63.1	30.71	~125
1705	—	S	A	M	P	L	E	—
1750	6.59	560	24.23	1.15	19.6	-59.6	35.53	~125

Purge Cycle (End): 55/5 seconds @ ~40 psi
Flow Rate (ml/min End): ~125 mL/min
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 45.59 x .006 = .27354
Total Purge Volume (Gallons): ~3.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1540

Sample Date/Time: 10/12/2023 @ 1705
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 = 45.59
Sample ID: 101223NMW232

Sampler Signature: [signature] Date: 10/12/2023 Page 1 of 1
QA/QC Signature: [signature] Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/13/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - LAP
Sampler(s): J. DAVIS
Well ID: MW 25
Field Calibration Completed: 10/13/2023 @ 0705
Well Diameter: 2.0 inches
Initial Depth to Water: 10.93 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
1042	6.30	240.9	41.65	0.97	17.7	-11.5	11.06	~300
1045	6.30	238.0	24.09	0.72	17.7	-17.3	11.07	~300
1048	6.29	236.9	20.39	0.61	17.6	-19.5	11.06	~300
1051	6.28	233.0	18.53	0.58	17.6	-20.4	11.00	~300
1054	6.27	229.6	17.70	0.54	17.8	-20.7	11.03	~300
* 1057	6.26	228.1	23.11	0.88	18.1	-20.6	11.01	~250
1102 ~~1100~~ 30	6.25	224.0	19.55	0.58	18.2	-19.1	10.99	~250
1107	6.24	220.8	18.05	0.62	18.2	-18.2	11.00	~250
1112 ~~1110~~ 30	6.23	219.8	16.52	0.51	18.1	-17.3	11.01	~250
1117	6.22	216.9	15.10	0.47	18.1	-16.4	11.01	~250
1122	6.22	219.3	14.03	0.74	18.9	-16.7	11.02	~250
1127	6.22	217.3	13.62	0.51	18.1	-15.8	11.00	~250
1132	6.21	216.3	11.77	0.53	18.2	-14.4	11.02	~250
1137	6.20	216.9	10.98	0.49	18.1	-14.5	11.03	~250
1142	6.20	216.0	9.78	0.51	18.1	-13.5	11.02	~250
1145	—	S	A	M	P	L	E	—
1205	6.21	217.2	9.26	0.80	18.3	-11.1	11.11	~250

Purge Cycle (End): 25/5 seconds @ 40 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): 50.15 x .006 = ~.3009
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: 1037 * = 13/7 → 25/5, 1118 change air tank
Sample Date/Time: 10/13/2023 @ 1145
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 = 50.15
Sample ID: 101323NMW25

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

MICROPURGE SAMPLING LOG

Date: 10/13/23
Weather: Sunny, 60s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR ~~/4023 VPDES~~ LAP
Sampler(s): T. Torrisi
Well ID: MW-26
Field Calibration Completed: 0705 on 10/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 8.28 feet
Depth to Bottom: – 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
1003	5.65	264.1	164.00	0.86	20.2	75.1	9.21	~210
1008	5.65	265.0	88.53	0.58	20.2	72.6	9.53	~200
1013	5.63	264.9	52.01	0.56	20.3	73.3	9.78	~200
1018	5.65	265.4	36.32	0.61	20.3	70.1	9.93	~200
1023	5.63	263.5	31.25	0.64	20.3	70.8	10.03	~200
1028	5.57	254.1	24.34	0.82	20.4	80.8	10.07	~200
1033	5.65	246.0	21.19	0.88	20.3	78.9	10.15	~200
1038	5.61	239.1	17.73	1.01	20.9	83.8	10.06	~100 ~~~200~~ 10/13/23
1043	5.61	237.2	15.51	1.13	21.4	86.7	9.84	~100 ~~~200~~ 10/13/23
1048	5.61	238.4	10.84	0.97	21.4	87.6	9.74	~100
1053	5.60	233.2	8.53	0.99	21.5	91.4	9.62	~100
1055				SAMPLE				
1135	5.68	216.9	11.99	1.66	23.0	88.6	4.57	~100

* drain flow-through cell

Purge Cycle (End): 55/5 seconds @ ~23 psi
Flow Rate (ml/min End): ~100
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (26.97)(0.006) * 0.16
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample; * drain flow-through cell
Purge Time: 0956

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 = 26.97'
Sample ID: 101323NMW26

Sampler Signature: T. T
Date: 10/13/23
Page 1 of 1

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

MICROPURGE SAMPLING LOG

Date: 10/13/23
Weather: Sunny, 50s

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - LAP
Sampler(s): T. Torrisi
Well ID: MW-27
Field Calibration Completed: 0705 on 10/13/23
Well Diameter: 2.0 inches
Initial Depth to Water: 16.56 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 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)^{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
0904	5.50	603	19.00	1.44	21.3	250.2	16.73	~300
0909	5.56	603	14.24	1.29	21.2	245.1	16.73	~300
0914	5.59	602	10.63	0.92	21.1	243.3	16.73	~300
0919	5.61	601	7.10	0.74	21.1	240.5	16.80	~300
0920	—	—	—	SAMPLE	—	—	—	—
0940	5.66	601	5.45	0.81	21.2	227.1	16.93	~300

Purge Cycle (End): 16/4 seconds @ ~22 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): (28.23)(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; *drain flow-through cell due to initial high turbidity leaving sediment
Purge Time: 0858
Sample Date/Time: 0920
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 = 28.23'
Sample ID: 101323NMW27

Sampler Signature: T. T
Date: 10/13/23
Page 1 of 1

QA/QC Signature: James Davi
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 - LAP
Sampler(s): Z. Mondshine
Well ID: MW-28
Field Calibration Completed: 0615 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 19.54 feet
Depth to Bottom: 37.28 feet
Water Column Thickness: - feet

Equipment Used:
- [x] WL Indicator
- [x] YSI 23B1G5001 PID 855
- [ ] 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
0902	7.17	725	13.51	0.85	20.4	-127.4	19.65	~325
0905	7.21	725	7.85	0.55	20.4	-134.3	19.60	~325
0908	7.21	721	6.80	0.51	20.4	-134.2	19.57	~325
0911	7.18	714	5.13	0.25	20.5	-133.2	19.56	~325
0915	—	—	— SAMPLE —	—	—	—	—	—
0925	7.03	673	3.64	0.56	20.5	-109.4	19.59	~325

Purge Cycle (End): 25/5 seconds @ 25 psi
Flow Rate (ml/min End): ~325
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 0.18
Total Purge Volume (Gallons): ~2.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample, sulfuric odor
Purge Time: 0956

Sample Date/Time: 0915 10/12/23
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 = 30.20
Sample ID: 101223NMW28

Sampler Signature: [signature] Date: 10/12/23
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~~ 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

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 - LAP
Sampler(s): Z. Mondshine
Well ID: MW-32SR
Field Calibration Completed: 0615 10/12/23
Well Diameter: 20 inches
Initial Depth to Water: 116.18 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 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)^{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
1430	6.52	5666	92.164	0.93	20.9	-101.3	16.57	~100
1435	6.51	556	68.03	0.75	20.8	-97.5	16.59	~100
1440	6.49	552	61.59	0.75	20.6	-95.2	16.60	~100
1445	6.48	542	58.75	0.67	20.10	-92.2	16.62	~100
1450	6.44	539	80.21	0.15	19.6	-89.3	16.65	~100
1455	6.43	533	94.92	0.24	20.2	-88.3	16.65	~100
1500	6.36	513	138.46	0.18	20.2	-74.8	16.66	~100
1505	6.31	499	133.02	0.08	19.2	-65.3	16.69	~300
1510	6.32	503	124.11	0.05	18.9	-66.2	16.71	~300
1515	6.30	494.6	110.65	0.04	18.8	-61.4	16.88	~300
1520	6.28	493.6	117.36	0.02	18.7	-58.9	16.92	~300
1525	6.27	492.0	116.06	0.02	18.7	-57.5	16.95	~300
1530	6.24	488.2	107.20	0.02	18.7	-50.1	17+16.17	~300
1535	6.23	488.5	84.86	+0.01	18.5	-46.6	17+16.24	~400
1540	6.27	498.0	73.78	0.00	18.4	-54.9	17+16.29	~400
1550	6.22	488.7	69.50	+0.02	18.3	-45.5	17+16.35	~400
1555	6.19	485.4	78.81	+0.04	18.2	-40.0	17+16.39	~400
1600	6.18	484.9	79.42	+0.04	18.2	-38.0	17+16.44	~400
1605	6.18	485.9	76.32	+0.04	18.2	-37.1	17.49	~400

* Change D2 tank

Purge Cycle (End): 15/5 seconds @ 35 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): 0.27
Total Purge Volume (Gallons): ~9.75
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab samples
Purge Time: 1417

Sample Date/Time: 10/12/23 @ 1646
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 = 45.32
Sample ID: 101223NMW32SR

Sampler Signature: Date: 10/12/23
QA/QC Signature: Date: 10/13/23

MICROPURGE SAMPLING LOG

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

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2S123 CCR GW-LAP
Sampler(s): Z. Mondshine
Well ID: MW-32SR
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 16.18 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI ProDSS23B105001
- [ ] 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
1610	6.17	484.1	64.92	+0.04	18.1	-35.9	17.52	~400
1615	6.17	482.7	65.71	+0.04	18.1	-35.0	17.56	~400
1620	6.17	481.0	54.85	+0.05	18.1	-33.6	17.60	~400
1625	6.16	484.0	36.51	+0.05	18.1	-32.7	17.68	~400
1630	6.15	482.9	37.75	+0.05	18.1	-31.4	17.70	~400
1635	6.15	483.2	36.13	+0.04	18.1	-30.1	17.73	~400
1640	6.16	481.5	37.96	+0.04	18.1	-30.2	17.76	~400
1645	—	—	SAMPLE	—	—	—	—	—
1655	6.14	480.2	27.23	0.03	18.0	-27.2	17.70	~400

Purge Cycle (End): 15'5 seconds @ 35 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): 0.27
Total Purge Volume (Gallons): 9.75
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1417

Sample Date/Time: 10/12/23 @ 1645
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 = 45.32
Sample ID: 101223NMW32SR

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

MICROPURGE SAMPLING LOG

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

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2S/A23 CCR ~~4023~~ VPDES LAP
Sampler(s): M. Weidemann
Well ID: MW-33R
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 17.20 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 17M102880
- [ ] 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
1220	6.83	749	148.80	0.28	20.6	-131.1	18.05	~150
1225	6.83	749	74.10	0.17	20.0	-130.7	18.15	~150
1230	6.84	750	84.78	0.12	20.0	-129.0	18.15	~150
1235	6.83	753	32.84	0.08	20.4	-127.9	18.15	~150
1240	6.83	754	25.72	0.06	20.5	-127.3	18.26	~150
1245	6.82	756	19.12	0.05	20.6	-125.2	18.30	~150
1250	6.82	754	18.42	0.04	20.3	-123.8	18.41	~150
1255	6.80	751	17.62	-0.00	20.2	-121.8	18.41	~150
1300 * purge air	6.80	752	~~18.8~~ 19 MW	0.00	20.4	-121.8	18.40	~150
1305	—	—	—	SAMPLE	—	—	—	—
1340	6.76	751	12.13	0.22	22.9	-111.6	18.30	~150

Purge Cycle (End): 51/9 seconds @ 40 psi
Flow Rate (ml/min End): ~150
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): (42.40)(0.006) = 0.25
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample. Carbonated well
Purge Time: 1212

Sample Date/Time: 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 = 42.40
Sample ID: 101223NMW33R

Sampler Signature: M. Weidemann Date: 10/12/23
QA/QC Signature: J. Jones Date: 10/13/23

MICROPURGE SAMPLING LOG

Date: 10/13/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW -LAP
Sampler(s): J. DAVIS
Well ID: MW-34
Field Calibration Completed: 10/13/2023 @0705
Well Diameter: 2.0 inches
Initial Depth to Water: 8.11 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 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	6.59	28.3	16.20	4.64	18.6	177.1	8.34	~250
0910	6.69	16.5	15.42	4.80	19.2	168.2	8.16	~250
0915	6.95	7.0	19.62	6.21	21.4	114.0	8.21	~250
0920	6.34	12.9	15.33	4.57	18.9	171.0	8.37	~250
0925	6.37	12.7	18.42	4.24	18.8	144.3	8.26	~250
0930	6.47	759	4.60	2.50	18.5	-89.3	8.31	~250
0935	6.73	760	6.19	0.37	18.2	-128.4	8.28	~250
0940	6.77	761	9.21	0.28	18.1	-132.0	8.36	~250
0945	6.77	760	6.94	0.26	18.1	-130.0	8.32	~250
0950	—	S	A	M	P	L	E	—
1005	6.84	758	9.08	0.11	18.3	-136.8	8.37	~250

* = back pack turned off # = water not flowing properly, data may be inaccurate

Purge Cycle (End): 24/16 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): 25.93 x .006 = ~.1558
Total Purge Volume (Gallons): ~4.0
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample, small air line leak, still flows
Purge Time: 0900
Sample Date/Time: 10/13/2023 @ 0950
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 = 25.93
Sample ID: 101323NMW34

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

* 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: 10/12/23
Weather: Overcast, 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR ~~+HQVPDES~~ LAP
Sampler(s): M. Weideman
Well ID: MW-36S
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: 2.0 inches
Initial Depth to Water: 13.00 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 17M102880
- [ ] Peristaltic Pump
- [ ] Compressor
- [x] ~~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
0909	6.66	599	40.70	1.09	18.7	-93.8	13.20	~300
0912	6.71	598	29.92	1.09	18.7	-93.2	13.12	~300
0915	6.72	598	26.90	0.74	18.6	-95.5	13.10	~300
0918	6.72	598	22.61	0.55	18.6	-101.3	13.11	~300
0921	6.74	596	24.64	0.42	18.6	-102.3	13.10	~300
0924	6.74	596	20.85	0.29	18.5	-105.9	13.10	~300
0927	6.72	595	6.60	1.86	18.5	-95.2	13.15	~300
0930	—	—	— SAMPLE	—	—	—	—	—
1000	6.67	597	9.87	0.15	18.5	-103.0	13.30	~300

Drain cell *

Purge Cycle (End): 24/6 seconds @ 22 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): (20.28)(0.006) = 0.12
Total Purge Volume (Gallons): ~2.5
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): Clear grab sample. Very carbonated
Purge Time: 0900

Sample Date/Time: 0930
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 = 20.28
Sample ID: 101223NMW36S

Sampler Signature: M. Weideman Date: 10/12/23
QA/QC Signature: F. [illegible] Date: 10/13/23

* Crossover CCR and VPDES

MICROPURGE SAMPLING LOG

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

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2S423 CCR / 4Q23 VPDES
Sampler(s): T. Tomsi
Well ID: MW-B50
Field Calibration Completed: 0635 on 10/10/23
Well Diameter: 2.0 inches
Initial Depth to Water: 23.25 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
1122	6.50	709	56.6	1.21	19.0	72.6	24.00	~300
1127	6.50	739	199	1.15	19.1	50.7	23.92	~200
1132	6.50	749	256	0.85	19.4	46.4	23.80	~200
1137	6.49	761	225	0.95	19.6	44.8	23.60	~200
1142	6.49	773	178	0.79	19.5	46.9	23.62	~200
1147	6.50	783	138	1.09	20.0	46.7	23.52	~120
1152	6.50	787	119	1.09	20.3	47.8	23.65	~120
1157	6.50	792	89.4	1.04	20.4	48.1	23.45	~120
1202	6.50	792	78.9	1.29	20.4	48.0	23.45	~120
1207	6.51	795	59.9	1.22	20.4	48.1	23.47	~120
1212	6.50	797	41.2	1.27	20.5	47.8	23.47	~120
1217	6.51	798	33.9	1.23	20.6	47.3	23.54	~120
1222	6.50	800	25.6	1.15	20.5	46.9	23.45	~120
1227	6.51	802	19.5	1.29	20.6	46.1	23.54	~120
1232	6.50	802	14.8	1.21	20.6	45.6	23.49	~120
1237	6.51	802	13.0	1.38	20.7	44.7	23.58	~120
1242	6.52	805	9.58	1.42	20.5	44.7	23.45	~120
1245				SAMPLE				
1336	6.50	812	5.22	1.12	21.4	37.1	23.43	~120

Purge Cycle (End): 57/3 seconds @ ~20 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): (25.81)(0.006) ≈ 0.15
Total Purge Volume (Gallons): ~4.25
Purge Water Management: On-Site Disposal in FFCP Basin
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge Time: 1117

Sample Date/Time: 1245
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 = 25.81'
Sample ID: 101023NB50

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

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

MICROPURGE SAMPLING LOG

Date: 10/13/2023
Weather: Sunny 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR GW - LAP
Sampler(s): J. DAVIS
Well ID: Field Blank - LAP
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)^{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	–	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 with ISS provided DI water at well MW 34
Purge Time: –

Sample Date/Time: 10/13/2023 @ 1020
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: 101323 FBLAP

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

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Overcast, 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR ~~HCUPDES~~ or LAP
Sampler(s): M. Weideman
Well ID: Duplicate LAP
Field Calibration Completed: 0615 on 10/12/23
Well Diameter: — inches
Initial Depth to Water: — 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 17M102880
- [ ] 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
0940	—	—	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 taken @ MW-36S
Purge Time: —

Sample Date/Time: 0940
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: 101223FD1LAP

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

MICROPURGE SAMPLING LOG

Date: 10/12/23
Weather: Overcast, 60's

Project Name: Chesterfield Power Station
Project No./Task No.: 31406066.007
Event: 2SA23 CCR ~~4Q VPDES~~ LAP
Sampler(s): M. Weideman
Well ID: Equipment Blank LAP
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~~
- [x] Non-dedicated BP
- [x] Lab provided DI water

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
1025	—	—	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 taken near MW-365
Purge Time: —

Sample Date/Time: 1025
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: 101223FBLAP

Sampler Signature: M. Weideman Date: 10/12/23
QA/QC Signature: J. J. Date: 10/13/23

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

June 26, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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

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

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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

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SAMPLE SUMMARY

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92661755001	**041023NMW25**	Water	04/10/23 11:10	04/12/23 09:55
92661755002	**041023NMW26**	Water	04/10/23 11:25	04/12/23 09:55
92661755003	**041023NMW27**	Water	04/10/23 10:00	04/12/23 09:55
92661755004	**041023NMW34**	Water	04/10/23 10:10	04/12/23 09:55
92661755005	**041023FBLAP**	Water	04/10/23 12:05	04/12/23 09:55
92661755006	**041023FDLAP**	Water	04/10/23 11:25	04/12/23 09:55
92661755007	**041023EBLAP**	Water	04/10/23 12:00	04/12/23 09:55
92662125001	**041223NMWB50**	Water	04/12/23 12:00	04/12/23 15:01
92662490001	**041323NMW36S**	Water	04/13/23 09:50	04/15/23 11:30
92662561001	**041423NMW20**	Water	04/14/23 10:00	04/15/23 11:30
92662561003	**041423NMW22R**	Water	04/14/23 13:15	04/15/23 11:30
92662561002	**041423NMW21R**	Water	04/14/23 11:15	04/15/23 11:30
92662561004	**041423NMW23R**	Water	04/14/23 09:50	04/15/23 11:30
92662561005	**041423NMW28**	Water	04/14/23 09:10	04/15/23 11:30
92662561006	**041423NMW32SR**	Water	04/14/23 12:15	04/15/23 11:30
92662561007	**041423NMW33R**	Water	04/14/23 10:10	04/15/23 11:30

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SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92661755001	**041023NMW25**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755002	**041023NMW26**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755003	**041023NMW27**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755004	**041023NMW34**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755005	**041023FBLAP**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755006	**041023FDLAP**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92661755007	**041023EBLAP**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	NMP	1	PASI-A
		SM 2540C-2011	JMH1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662125001	**041223NMWB50**	EPA 6010	AAM1	7	PASI-O
		EPA 6020B	KRL	7	PASI-A

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SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	NMP	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92662490001	**041323NMW36S**	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
92662561001	**041423NMW20**	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
92662561003	**041423NMW22R**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662561002	**041423NMW21R**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662561004	**041423NMW23R**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662561005	**041423NMW28**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
92662561006	**041423NMW32SR**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92662561007	**041423NMW33R**	EPA 6010	TMA	7	PASI-O
		EPA 6020B	LJR	7	PASI-A
		EPA 7470A	BM	1	PASI-A
		SM 2540C-2011	RVS	1	PASI-A
		EPA 9056A	CDC	3	PASI-A

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

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SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92661755001	**041023NMW25**					
EPA 6010	Barium	108	ug/L	10.0	04/19/23 11:51	
EPA 6010	Calcium	30400	ug/L	500	04/19/23 11:51	
EPA 6020B	Arsenic	9.5	ug/L	1.0	04/26/23 22:58	
EPA 6020B	Cobalt	0.79J	ug/L	1.0	04/26/23 22:58	
EPA 6020B	Lead	0.17J	ug/L	1.0	04/26/23 22:58	
EPA 6020B	Lithium	1.9J	ug/L	2.5	04/26/23 22:58	
EPA 6020B	Molybdenum	2.6	ug/L	1.0	04/26/23 22:58	
SM 2540C-2011	Total Dissolved Solids	211	mg/L	25.0	04/13/23 12:26	
EPA 9056A	Chloride	5.5	mg/L	1.0	04/14/23 04:24	
EPA 9056A	Fluoride	0.44	mg/L	0.10	04/14/23 04:24	
EPA 9056A	Sulfate	0.94J	mg/L	1.0	04/14/23 04:24	
92661755002	**041023NMW26**					
EPA 6010	Barium	31.1	ug/L	10.0	04/19/23 11:55	
EPA 6010	Calcium	6570	ug/L	500	04/19/23 11:55	
EPA 6020B	Arsenic	1.2	ug/L	1.0	04/26/23 23:03	
EPA 6020B	Cobalt	1.2	ug/L	1.0	04/26/23 23:03	
EPA 6020B	Lithium	2.8	ug/L	2.5	04/26/23 23:03	
EPA 6020B	Molybdenum	0.23J	ug/L	1.0	04/26/23 23:03	
SM 2540C-2011	Total Dissolved Solids	90.0	mg/L	25.0	04/13/23 12:26	
EPA 9056A	Chloride	7.2	mg/L	1.0	04/14/23 04:40	
EPA 9056A	Fluoride	0.13	mg/L	0.10	04/14/23 04:40	
EPA 9056A	Sulfate	2.8	mg/L	1.0	04/14/23 04:40	
92661755003	**041023NMW27**					
EPA 6010	Barium	92.6	ug/L	10.0	04/19/23 11:59	
EPA 6010	Boron	419	ug/L	50.0	04/19/23 11:59	
EPA 6010	Calcium	28100	ug/L	500	04/19/23 11:59	
EPA 6020B	Cobalt	8.9	ug/L	1.0	04/26/23 23:15	
EPA 6020B	Lithium	2.0J	ug/L	2.5	04/26/23 23:15	
EPA 6020B	Thallium	0.060J	ug/L	0.20	04/26/23 23:15	
SM 2540C-2011	Total Dissolved Solids	260	mg/L	25.0	04/13/23 12:26	
EPA 9056A	Chloride	58.5	mg/L	1.0	04/14/23 04:57	
EPA 9056A	Fluoride	0.093J	mg/L	0.10	04/14/23 04:57	
EPA 9056A	Sulfate	42.9	mg/L	1.0	04/14/23 04:57	
92661755004	**041023NMW34**					
EPA 6010	Barium	250	ug/L	10.0	04/19/23 12:02	
EPA 6010	Boron	1040	ug/L	50.0	04/19/23 12:02	
EPA 6010	Calcium	50000	ug/L	500	04/19/23 12:02	
EPA 6020B	Arsenic	9.2	ug/L	1.0	04/26/23 23:20	
EPA 6020B	Cobalt	2.3	ug/L	1.0	04/26/23 23:20	
EPA 6020B	Molybdenum	1.5	ug/L	1.0	04/26/23 23:20	
SM 2540C-2011	Total Dissolved Solids	318	mg/L	25.0	04/13/23 12:29	
EPA 9056A	Chloride	98.7	mg/L	2.0	04/14/23 08:15	
EPA 9056A	Fluoride	0.14	mg/L	0.10	04/14/23 05:13	M1
92661755006	**041023FDLAP**					
EPA 6010	Barium	107	ug/L	10.0	04/19/23 12:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92661755006	**041023FDLAP**					
EPA 6010	Calcium	29400	ug/L	500	04/19/23 12:10	
EPA 6020B	Arsenic	8.7	ug/L	1.0	04/26/23 23:28	
EPA 6020B	Cobalt	0.66J	ug/L	1.0	04/26/23 23:28	
EPA 6020B	Lead	0.10J	ug/L	1.0	04/26/23 23:28	
EPA 6020B	Lithium	1.8J	ug/L	2.5	04/26/23 23:28	
EPA 6020B	Molybdenum	2.2	ug/L	1.0	04/26/23 23:28	
SM 2540C-2011	Total Dissolved Solids	199	mg/L	25.0	04/13/23 12:29	
EPA 9056A	Chloride	5.7	mg/L	1.0	04/14/23 07:09	
EPA 9056A	Fluoride	0.42	mg/L	0.10	04/14/23 07:09	
EPA 9056A	Sulfate	0.81J	mg/L	1.0	04/14/23 07:09	
92662125001	**041223NMWB50**					
EPA 6010	Barium	108	ug/L	10.0	04/19/23 13:29	
EPA 6010	Boron	389	ug/L	50.0	04/19/23 13:29	
EPA 6010	Calcium	89500	ug/L	500	04/19/23 13:29	
EPA 6020B	Arsenic	0.76J	ug/L	1.0	04/27/23 00:34	
EPA 6020B	Cobalt	0.99J	ug/L	1.0	04/27/23 00:34	
EPA 6020B	Molybdenum	0.36J	ug/L	1.0	04/27/23 00:34	
EPA 6020B	Thallium	0.12J	ug/L	0.20	04/27/23 00:34	
EPA 9056A	Chloride	81.0	mg/L	1.0	04/15/23 03:42	
EPA 9056A	Fluoride	0.14	mg/L	0.10	04/15/23 03:42	
EPA 9056A	Sulfate	60.9	mg/L	1.0	04/15/23 03:42	
92662490001	**041323NMW36S**					
EPA 6010	Barium	434	ug/L	10.0	04/24/23 00:47	
EPA 6010	Beryllium	0.20J	ug/L	4.0	04/24/23 00:47	
EPA 6010	Boron	155	ug/L	50.0	04/24/23 00:47	
EPA 6010	Cadmium	0.80J	ug/L	1.0	04/24/23 00:47	
EPA 6010	Calcium	26900	ug/L	500	04/24/23 00:47	
EPA 6020B	Arsenic	13.8	ug/L	1.0	04/26/23 00:55	
EPA 6020B	Cobalt	13.0	ug/L	1.0	04/26/23 00:55	
EPA 6020B	Lithium	0.81J	ug/L	2.5	04/26/23 00:55	
EPA 6020B	Molybdenum	4.4	ug/L	1.0	04/26/23 00:55	
SM 2540C-2011	Total Dissolved Solids	240	mg/L	25.0	04/18/23 14:15	
EPA 9056A	Chloride	57.3	mg/L	1.0	04/18/23 22:32	
EPA 9056A	Fluoride	0.15	mg/L	0.10	04/18/23 22:32	
92662561001	**041423NMW20**					
EPA 6010	Barium	27.7	ug/L	10.0	04/21/23 11:57	
EPA 6010	Boron	503	ug/L	50.0	04/21/23 11:57	
EPA 6010	Cadmium	0.57J	ug/L	1.0	04/21/23 11:57	
EPA 6010	Calcium	36800	ug/L	500	04/21/23 11:57	
EPA 6020B	Arsenic	0.21J	ug/L	1.0	04/26/23 01:33	
EPA 6020B	Cobalt	78.7	ug/L	1.0	04/26/23 01:33	
EPA 6020B	Lead	0.17J	ug/L	1.0	04/26/23 01:33	
EPA 6020B	Lithium	2.9	ug/L	2.5	04/26/23 01:33	
EPA 6020B	Thallium	0.21	ug/L	0.20	04/26/23 01:33	
SM 2540C-2011	Total Dissolved Solids	331	mg/L	25.0	04/18/23 14:15	
EPA 9056A	Chloride	29.0	mg/L	1.0	04/18/23 23:21	

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SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662561001	**041423NMW20**					
EPA 9056A	Fluoride	0.081J	mg/L	0.10	04/18/23 23:21	
EPA 9056A	Sulfate	161	mg/L	3.0	04/19/23 13:02	
92662561003	**041423NMW22R**					
EPA 6010	Barium	123	ug/L	10.0	04/21/23 12:04	
EPA 6010	Boron	139	ug/L	50.0	04/21/23 12:04	
EPA 6010	Calcium	19100	ug/L	500	04/21/23 12:04	
EPA 6020B	Arsenic	0.36J	ug/L	1.0	04/26/23 01:40	
EPA 6020B	Cobalt	14.2	ug/L	1.0	04/26/23 01:40	
EPA 6020B	Lead	0.34J	ug/L	1.0	04/26/23 01:40	
EPA 6020B	Lithium	2.7	ug/L	2.5	04/26/23 01:40	
EPA 6020B	Molybdenum	0.14J	ug/L	1.0	04/26/23 01:40	
SM 2540C-2011	Total Dissolved Solids	177	mg/L	25.0	04/18/23 19:19	
EPA 9056A	Chloride	20.5	mg/L	1.0	04/19/23 01:33	
EPA 9056A	Fluoride	0.10	mg/L	0.10	04/19/23 01:33	
EPA 9056A	Sulfate	28.2	mg/L	1.0	04/19/23 01:33	
92662561002	**041423NMW21R**					
EPA 6010	Barium	68.6	ug/L	10.0	04/21/23 12:00	
EPA 6010	Boron	366	ug/L	50.0	04/21/23 12:00	
EPA 6010	Calcium	44700	ug/L	500	04/21/23 12:00	
EPA 6020B	Arsenic	0.72J	ug/L	1.0	04/26/23 01:36	
EPA 6020B	Cobalt	10.9	ug/L	1.0	04/26/23 01:36	
EPA 6020B	Lead	0.098J	ug/L	1.0	04/26/23 01:36	
EPA 6020B	Lithium	1.2J	ug/L	2.5	04/26/23 01:36	
EPA 6020B	Molybdenum	0.36J	ug/L	1.0	04/26/23 01:36	
EPA 6020B	Thallium	0.079J	ug/L	0.20	04/26/23 01:36	
SM 2540C-2011	Total Dissolved Solids	376	mg/L	25.0	04/18/23 19:19	
EPA 9056A	Chloride	47.8	mg/L	1.0	04/19/23 00:10	
EPA 9056A	Fluoride	0.12	mg/L	0.10	04/19/23 00:10	
EPA 9056A	Sulfate	97.7	mg/L	2.0	04/19/23 13:18	
92662561004	**041423NMW23R**					
EPA 6010	Barium	164	ug/L	10.0	04/21/23 12:16	
EPA 6010	Boron	13.9J	ug/L	50.0	04/21/23 12:16	
EPA 6010	Calcium	61700	ug/L	500	04/21/23 12:16	
EPA 6020B	Arsenic	4.8	ug/L	1.0	04/26/23 01:44	
EPA 6020B	Cobalt	1.6	ug/L	1.0	04/26/23 01:44	
EPA 6020B	Lead	0.12J	ug/L	1.0	04/26/23 01:44	
EPA 6020B	Lithium	0.58J	ug/L	2.5	04/26/23 01:44	
EPA 6020B	Molybdenum	5.3	ug/L	1.0	04/26/23 01:44	
SM 2540C-2011	Total Dissolved Solids	320	mg/L	25.0	04/18/23 19:19	
EPA 9056A	Chloride	3.0	mg/L	1.0	04/19/23 01:49	
EPA 9056A	Fluoride	0.34	mg/L	0.10	04/19/23 01:49	
EPA 9056A	Sulfate	1.7	mg/L	1.0	04/19/23 01:49	
92662561005	**041423NMW28**					
EPA 6010	Barium	100	ug/L	10.0	04/21/23 12:19	
EPA 6010	Boron	196	ug/L	50.0	04/21/23 12:19	

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SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662561005	**041423NMW28**					
EPA 6010	Calcium	72100	ug/L	500	04/21/23 12:19	
EPA 6020B	Arsenic	137	ug/L	1.0	04/26/23 01:48	
EPA 6020B	Cobalt	5.1	ug/L	1.0	04/26/23 01:48	
EPA 6020B	Lithium	8.6	ug/L	2.5	04/26/23 01:48	
EPA 6020B	Molybdenum	15.6	ug/L	1.0	04/26/23 01:48	
SM 2540C-2011	Total Dissolved Solids	336	mg/L	25.0	04/18/23 19:26	
EPA 9056A	Chloride	28.0	mg/L	1.0	04/19/23 02:06	
EPA 9056A	Fluoride	0.37	mg/L	0.10	04/19/23 02:06	
EPA 9056A	Sulfate	29.9	mg/L	1.0	04/19/23 02:06	
92662561006	**041423NMW32SR**					
EPA 6010	Barium	183	ug/L	10.0	04/21/23 12:23	
EPA 6010	Boron	31.8J	ug/L	50.0	04/21/23 12:23	
EPA 6010	Calcium	29200	ug/L	500	04/21/23 12:23	
EPA 6010	Chromium	2.0J	ug/L	5.0	04/21/23 12:23	
EPA 6020B	Arsenic	8.1	ug/L	1.0	04/26/23 01:52	
EPA 6020B	Cobalt	4.9	ug/L	1.0	04/26/23 01:52	
EPA 6020B	Lead	0.80J	ug/L	1.0	04/26/23 01:52	
EPA 6020B	Lithium	3.0	ug/L	2.5	04/26/23 01:52	
EPA 6020B	Molybdenum	1.8	ug/L	1.0	04/26/23 01:52	
SM 2540C-2011	Total Dissolved Solids	278	mg/L	25.0	04/18/23 19:26	
EPA 9056A	Chloride	18.7	mg/L	1.0	04/19/23 02:22	
EPA 9056A	Fluoride	0.26	mg/L	0.10	04/19/23 02:22	
EPA 9056A	Sulfate	37.2	mg/L	1.0	04/19/23 02:22	
92662561007	**041423NMW33R**					
EPA 6010	Barium	208	ug/L	10.0	04/21/23 12:27	
EPA 6010	Boron	298	ug/L	50.0	04/21/23 12:27	
EPA 6010	Calcium	33000	ug/L	500	04/21/23 12:27	
EPA 6020B	Arsenic	10.5	ug/L	1.0	04/26/23 01:56	
EPA 6020B	Cobalt	1.2	ug/L	1.0	04/26/23 01:56	
EPA 6020B	Lead	0.078J	ug/L	1.0	04/26/23 01:56	
EPA 6020B	Molybdenum	2.0	ug/L	1.0	04/26/23 01:56	
SM 2540C-2011	Total Dissolved Solids	259	mg/L	25.0	04/18/23 19:26	
EPA 9056A	Chloride	31.7	mg/L	1.0	04/19/23 02:39	
EPA 9056A	Fluoride	0.15	mg/L	0.10	04/19/23 02:39	

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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: June 26, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: June 26, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: June 26, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: June 26, 2023

General Information:
15 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:

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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: June 26, 2023

General Information:
16 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.

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023NMW25 **Lab ID: 92661755001** Collected: 04/10/23 11:10 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	**108**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 11:51	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 11:51	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 11:51	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 11:51	7440-43-9	
Calcium	**30400**	ug/L	500	190	1	04/18/23 23:52	04/19/23 11:51	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 11:51	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 11:51	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	04/26/23 14:34	04/26/23 22:58	7440-36-0	
Arsenic	**9.5**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 22:58	7440-38-2	
Cobalt	**0.79J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 22:58	7440-48-4	
Lead	**0.17J**	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 22:58	7439-92-1	
Lithium	**1.9J**	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 22:58	7439-93-2	
Molybdenum	**2.6**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 22:58	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 22:58	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	04/26/23 14:03	04/27/23 12:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**211**	mg/L	25.0	25.0	1		04/13/23 12:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		04/14/23 04:24	16887-00-6	
Fluoride	**0.44**	mg/L	0.10	0.050	1		04/14/23 04:24	16984-48-8	
Sulfate	**0.94J**	mg/L	1.0	0.50	1		04/14/23 04:24	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023NMW26 **Lab ID: 92661755002** Collected: 04/10/23 11:25 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	**31.1**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 11:55	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 11:55	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 11:55	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 11:55	7440-43-9	
Calcium	**6570**	ug/L	500	190	1	04/18/23 23:52	04/19/23 11:55	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 11:55	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 11:55	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	04/26/23 14:34	04/26/23 23:03	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:03	7440-38-2	
Cobalt	**1.2**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:03	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:03	7439-92-1	
Lithium	**2.8**	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:03	7439-93-2	
Molybdenum	**0.23J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:03	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:03	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 12:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**90.0**	mg/L	25.0	25.0	1		04/13/23 12:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		04/14/23 04:40	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		04/14/23 04:40	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.50	1		04/14/23 04:40	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023NMW27 **Lab ID: 92661755003** Collected: 04/10/23 10:00 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	**92.6**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 11:59	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 11:59	7440-41-7	
Boron	**419**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 11:59	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 11:59	7440-43-9	
Calcium	**28100**	ug/L	500	190	1	04/18/23 23:52	04/19/23 11:59	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 11:59	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 11:59	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	04/26/23 14:34	04/26/23 23:15	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:15	7440-38-2	
Cobalt	**8.9**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:15	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:15	7439-92-1	
Lithium	**2.0J**	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:15	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:15	7439-98-7	
Thallium	**0.060J**	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:15	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	04/26/23 14:03	04/27/23 12:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**260**	mg/L	25.0	25.0	1		04/13/23 12:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**58.5**	mg/L	1.0	0.60	1		04/14/23 04:57	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		04/14/23 04:57	16984-48-8	
Sulfate	**42.9**	mg/L	1.0	0.50	1		04/14/23 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023NMW34 **Lab ID: 92661755004** Collected: 04/10/23 10:10 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	**250**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 12:02	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 12:02	7440-41-7	
Boron	**1040**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 12:02	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 12:02	7440-43-9	
Calcium	**50000**	ug/L	500	190	1	04/18/23 23:52	04/19/23 12:02	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 12:02	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 12:02	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	04/26/23 14:34	04/26/23 23:20	7440-36-0	
Arsenic	**9.2**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:20	7440-38-2	
Cobalt	**2.3**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:20	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:20	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:20	7439-93-2	
Molybdenum	**1.5**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:20	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:20	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	04/26/23 14:03	04/27/23 12:31	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		04/13/23 12:29		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**98.7**	mg/L	2.0	1.2	2		04/14/23 08:15	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		04/14/23 05:13	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		04/14/23 05:13	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023FBLAP **Lab ID: 92661755005** Collected: 04/10/23 12:05 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	ND	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 12:06	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 12:06	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 12:06	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 12:06	7440-43-9	
Calcium	ND	ug/L	500	190	1	04/18/23 23:52	04/19/23 12:06	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 12:06	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 12:06	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	04/26/23 23:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:24	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:24	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:24	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:24	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:24	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 23:24	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 12:33	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		04/13/23 12:29		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/14/23 06:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/14/23 06:52	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/14/23 06:52	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023FDLAP **Lab ID: 92661755006** Collected: 04/10/23 11:25 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	**107**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 12:10	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 12:10	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 12:10	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 12:10	7440-43-9	
Calcium	**29400**	ug/L	500	190	1	04/18/23 23:52	04/19/23 12:10	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 12:10	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 12:10	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	04/26/23 23:28	7440-36-0	
Arsenic	**8.7**	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:28	7440-38-2	
Cobalt	**0.66J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:28	7440-48-4	
Lead	**0.10J**	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:28	7439-92-1	
Lithium	**1.8J**	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:28	7439-93-2	
Molybdenum	**2.2**	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:28	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 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	04/26/23 14:03	04/27/23 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**199**	mg/L	25.0	25.0	1		04/13/23 12:29		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		04/14/23 07:09	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	0.050	1		04/14/23 07:09	16984-48-8	
Sulfate	**0.81J**	mg/L	1.0	0.50	1		04/14/23 07:09	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041023EBLAP **Lab ID: 92661755007** Collected: 04/10/23 12:00 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	ND	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 12:14	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 12:14	7440-41-7	
Boron	ND	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 12:14	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 12:14	7440-43-9	
Calcium	ND	ug/L	500	190	1	04/18/23 23:52	04/19/23 12:14	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 12:14	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 12:14	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	04/26/23 23:33	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	04/26/23 14:34	04/26/23 23:33	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	04/26/23 14:34	04/26/23 23:33	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/26/23 23:33	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/26/23 14:34	04/26/23 23:33	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/26/23 14:34	04/26/23 23:33	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/26/23 14:34	04/26/23 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	04/26/23 14:03	04/27/23 12:37	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		04/13/23 12:29		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/14/23 07:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/14/23 07:25	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/14/23 07:25	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041223NMWB50 **Lab ID: 92662125001** Collected: 04/12/23 12:00 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	**108**	ug/L	10.0	0.84	1	04/18/23 23:52	04/19/23 13:29	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/18/23 23:52	04/19/23 13:29	7440-41-7	
Boron	**389**	ug/L	50.0	12.4	1	04/18/23 23:52	04/19/23 13:29	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/18/23 23:52	04/19/23 13:29	7440-43-9	
Calcium	**89500**	ug/L	500	190	1	04/18/23 23:52	04/19/23 13:29	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/18/23 23:52	04/19/23 13:29	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/18/23 23:52	04/19/23 13:29	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 00:34	7440-36-0	
Arsenic	**0.76J**	ug/L	1.0	0.087	1	04/26/23 14:34	04/27/23 00:34	7440-38-2	
Cobalt	**0.99J**	ug/L	1.0	0.050	1	04/26/23 14:34	04/27/23 00:34	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/26/23 14:34	04/27/23 00:34	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/26/23 14:34	04/27/23 21:07	7439-93-2	
Molybdenum	**0.36J**	ug/L	1.0	0.13	1	04/26/23 14:34	04/27/23 00:34	7439-98-7	
Thallium	**0.12J**	ug/L	0.20	0.050	1	04/26/23 14:34	04/27/23 00:34	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	04/26/23 14:03	04/27/23 13:05	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**81.0**	mg/L	1.0	0.60	1		04/15/23 03:42	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		04/15/23 03:42	16984-48-8	
Sulfate	**60.9**	mg/L	1.0	0.50	1		04/15/23 03:42	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041323NMW36S **Lab ID: 92662490001** 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	**434**	ug/L	10.0	0.84	1	04/21/23 06:48	04/24/23 00:47	7440-39-3	
Beryllium	**0.20J**	ug/L	4.0	0.17	1	04/21/23 06:48	04/24/23 00:47	7440-41-7	
Boron	**155**	ug/L	50.0	12.4	1	04/21/23 06:48	04/24/23 00:47	7440-42-8	
Cadmium	**0.80J**	ug/L	1.0	0.33	1	04/21/23 06:48	04/24/23 00:47	7440-43-9	
Calcium	**26900**	ug/L	500	190	1	04/21/23 06:48	04/24/23 00:47	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 06:48	04/24/23 00:47	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 06:48	04/24/23 00:47	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	04/24/23 11:09	04/26/23 00:55	7440-36-0	
Arsenic	**13.8**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 00:55	7440-38-2	
Cobalt	**13.0**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 00:55	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 00:55	7439-92-1	
Lithium	**0.81J**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 00:55	7439-93-2	
Molybdenum	**4.4**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 00:55	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 00:55	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 19:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**240**	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	**57.3**	mg/L	1.0	0.60	1		04/18/23 22:32	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		04/18/23 22:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/18/23 22:32	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW20 **Lab ID: 92662561001** Collected: 04/14/23 10:00 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	**27.7**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 11:57	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 11:57	7440-41-7	
Boron	**503**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 11:57	7440-42-8	
Cadmium	**0.57J**	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 11:57	7440-43-9	
Calcium	**36800**	ug/L	500	190	1	04/21/23 05:49	04/21/23 11:57	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 11:57	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 11:57	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 01:33	7440-36-0	
Arsenic	**0.21J**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:33	7440-38-2	
Cobalt	**78.7**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:33	7440-48-4	
Lead	**0.17J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:33	7439-92-1	
Lithium	**2.9**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:33	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:33	7439-98-7	
Thallium	**0.21**	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 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	04/27/23 18:12	04/29/23 18:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**331**	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	**29.0**	mg/L	1.0	0.60	1		04/18/23 23:21	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		04/18/23 23:21	16984-48-8	
Sulfate	**161**	mg/L	3.0	1.5	3		04/19/23 13:02	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW22R **Lab ID: 92662561003** Collected: 04/14/23 13:15 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	**123**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:04	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:04	7440-41-7	
Boron	**139**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:04	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:04	7440-43-9	
Calcium	**19100**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:04	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:04	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:04	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	04/24/23 11:09	04/26/23 01:40	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:40	7440-38-2	
Cobalt	**14.2**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:40	7440-48-4	
Lead	**0.34J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:40	7439-92-1	
Lithium	**2.7**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:40	7439-93-2	
Molybdenum	**0.14J**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:40	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:40	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 18:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**177**	mg/L	25.0	25.0	1		04/18/23 19:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**20.5**	mg/L	1.0	0.60	1		04/19/23 01:33	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		04/19/23 01:33	16984-48-8	
Sulfate	**28.2**	mg/L	1.0	0.50	1		04/19/23 01:33	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW21R **Lab ID: 92662561002** Collected: 04/14/23 11:15 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	**68.6**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:00	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:00	7440-41-7	
Boron	**366**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:00	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:00	7440-43-9	
Calcium	**44700**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:00	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:00	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:00	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	04/24/23 11:09	04/26/23 01:36	7440-36-0	
Arsenic	**0.72J**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:36	7440-38-2	
Cobalt	**10.9**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:36	7440-48-4	
Lead	**0.098J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:36	7439-92-1	
Lithium	**1.2J**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:36	7439-93-2	
Molybdenum	**0.36J**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:36	7439-98-7	
Thallium	**0.079J**	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:36	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 18:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**376**	mg/L	25.0	25.0	1		04/18/23 19:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**47.8**	mg/L	1.0	0.60	1		04/19/23 00:10	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		04/19/23 00:10	16984-48-8	
Sulfate	**97.7**	mg/L	2.0	1.0	2		04/19/23 13:18	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW23R **Lab ID: 92662561004** Collected: 04/14/23 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	**164**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:16	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:16	7440-41-7	
Boron	**13.9J**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:16	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:16	7440-43-9	
Calcium	**61700**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:16	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:16	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:16	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	04/24/23 11:09	04/26/23 01:44	7440-36-0	
Arsenic	**4.8**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:44	7440-38-2	
Cobalt	**1.6**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:44	7440-48-4	
Lead	**0.12J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:44	7439-92-1	
Lithium	**0.58J**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:44	7439-93-2	
Molybdenum	**5.3**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:44	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:44	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 18:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**320**	mg/L	25.0	25.0	1		04/18/23 19:19		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		04/19/23 01:49	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		04/19/23 01:49	16984-48-8	
Sulfate	**1.7**	mg/L	1.0	0.50	1		04/19/23 01:49	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW28 **Lab ID: 92662561005** Collected: 04/14/23 09:10 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	**100**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:19	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:19	7440-41-7	
Boron	**196**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:19	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:19	7440-43-9	
Calcium	**72100**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:19	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:19	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:19	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	04/24/23 11:09	04/26/23 01:48	7440-36-0	
Arsenic	**137**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:48	7440-38-2	
Cobalt	**5.1**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:48	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:48	7439-92-1	
Lithium	**8.6**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:48	7439-93-2	
Molybdenum	**15.6**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:48	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:48	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 18:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011								
	Pace Analytical Services - Asheville								
Total Dissolved Solids	**336**	mg/L	25.0	25.0	1		04/18/23 19:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A								
	Pace Analytical Services - Asheville								
Chloride	**28.0**	mg/L	1.0	0.60	1		04/19/23 02:06	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	0.050	1		04/19/23 02:06	16984-48-8	
Sulfate	**29.9**	mg/L	1.0	0.50	1		04/19/23 02:06	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW32SR **Lab ID: 92662561006** Collected: 04/14/23 12:15 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	**183**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:23	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:23	7440-41-7	
Boron	**31.8J**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:23	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:23	7440-43-9	
Calcium	**29200**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:23	7440-70-2	
Chromium	**2.0J**	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:23	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:23	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	04/24/23 11:09	04/26/23 01:52	7440-36-0	
Arsenic	**8.1**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:52	7440-38-2	
Cobalt	**4.9**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:52	7440-48-4	
Lead	**0.80J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:52	7439-92-1	
Lithium	**3.0**	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:52	7439-93-2	
Molybdenum	**1.8**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:52	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:52	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 18:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**278**	mg/L	25.0	25.0	1		04/18/23 19:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**18.7**	mg/L	1.0	0.60	1		04/19/23 02:22	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	0.050	1		04/19/23 02:22	16984-48-8	
Sulfate	**37.2**	mg/L	1.0	0.50	1		04/19/23 02:22	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Sample: 041423NMW33R **Lab ID: 92662561007** Collected: 04/14/23 10:10 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	**208**	ug/L	10.0	0.84	1	04/21/23 05:49	04/21/23 12:27	7440-39-3	
Beryllium	ND	ug/L	4.0	0.17	1	04/21/23 05:49	04/21/23 12:27	7440-41-7	
Boron	**298**	ug/L	50.0	12.4	1	04/21/23 05:49	04/21/23 12:27	7440-42-8	
Cadmium	ND	ug/L	1.0	0.33	1	04/21/23 05:49	04/21/23 12:27	7440-43-9	
Calcium	**33000**	ug/L	500	190	1	04/21/23 05:49	04/21/23 12:27	7440-70-2	
Chromium	ND	ug/L	5.0	1.7	1	04/21/23 05:49	04/21/23 12:27	7440-47-3	
Selenium	ND	ug/L	15.0	3.9	1	04/21/23 05:49	04/21/23 12:27	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 01:56	7440-36-0	
Arsenic	**10.5**	ug/L	1.0	0.087	1	04/24/23 11:09	04/26/23 01:56	7440-38-2	
Cobalt	**1.2**	ug/L	1.0	0.050	1	04/24/23 11:09	04/26/23 01:56	7440-48-4	
Lead	**0.078J**	ug/L	1.0	0.077	1	04/24/23 11:09	04/26/23 01:56	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	04/24/23 11:09	04/26/23 01:56	7439-93-2	
Molybdenum	**2.0**	ug/L	1.0	0.13	1	04/24/23 11:09	04/26/23 01:56	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	04/24/23 11:09	04/26/23 01:56	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	04/27/23 18:12	04/29/23 18:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Asheville								
Total Dissolved Solids	**259**	mg/L	25.0	25.0	1		04/18/23 19:26		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**31.7**	mg/L	1.0	0.60	1		04/19/23 02:39	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		04/19/23 02:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/19/23 02:39	14808-79-8	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 770519 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

METHOD BLANK: 3999845 Matrix: Water
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 770883
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662490001

METHOD BLANK: 4001980 Matrix: Water
Associated Lab Samples: 92662490001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 770884 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

METHOD BLANK: 4001988 Matrix: Water
Associated Lab Samples: 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

METHOD BLANK: 5004343 Matrix: Water
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 911169
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

METHOD BLANK: 5009604 Matrix: Water
Associated Lab Samples: 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	0.84	04/21/23 10:45	
Beryllium	ug/L	ND	4.0	0.17	04/21/23 10:45	
Boron	ug/L	ND	50.0	12.4	04/21/23 10:45	
Cadmium	ug/L	ND	1.0	0.33	04/21/23 10:45	
Calcium	ug/L	ND	500	190	04/21/23 10:45	
Chromium	ug/L	ND	5.0	1.7	04/21/23 10:45	
Selenium	ug/L	ND	15.0	3.9	04/21/23 10:45	

LABORATORY CONTROL SAMPLE: 5009605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	248	99	80-120	
Beryllium	ug/L	25	24.5	98	80-120	
Boron	ug/L	1250	1210	97	80-120	
Cadmium	ug/L	25	25.1	100	80-120	
Calcium	ug/L	12500	12700	101	80-120	
Chromium	ug/L	250	248	99	80-120	
Selenium	ug/L	250	260	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5009606 5009607

Parameter	Units	35793886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	15.6	250	250	264	266	100	100	75-125	0	20	
Beryllium	ug/L	0.17U	25	25	24.5	24.6	98	98	75-125	0	20	
Boron	ug/L	26.0J	1250	1250	1240	1250	97	98	75-125	0	20	
Cadmium	ug/L	0.33U	25	25	24.4	24.4	98	98	75-125	0	20	
Calcium	ug/L	95700	12500	12500	108000	107000	97	89	75-125	1	20	
Chromium	ug/L	1.7U	250	250	247	247	98	99	75-125	0	20	
Selenium	ug/L	3.9U	250	250	254	259	102	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92662490001

METHOD BLANK: 5009642 Matrix: Water
Associated Lab Samples: 92662490001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 769838
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662490001, 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

METHOD BLANK: 3996643 Matrix: Water
Associated Lab Samples: 92662490001, 92662561001, 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 770549
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

METHOD BLANK: 4000012 Matrix: Water
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007, 92662125001

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	

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(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 767806 | 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: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007

METHOD BLANK: 3986505 Matrix: Water
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/13/23 12:26	

LABORATORY CONTROL SAMPLE: 3986506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 3986507

Parameter	Units	92661755001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	211	210	0	25	

SAMPLE DUPLICATE: 3986508

Parameter	Units	92661707004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	122	2	25	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92662490001, 92662561001

METHOD BLANK: 3990557 Matrix: Water
Associated Lab Samples: 92662490001, 92662561001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 768802 | 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: 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

METHOD BLANK: 3991626 Matrix: Water
Associated Lab Samples: 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/18/23 19:16	

LABORATORY CONTROL SAMPLE: 3991627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 3991628

Parameter	Units	92662176001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	473	463	2	25	

SAMPLE DUPLICATE: 3991629

Parameter	Units	92662561006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	278	280	1	25	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007

METHOD BLANK: 3987644 Matrix: Water
Associated Lab Samples: 92661755001, 92661755002, 92661755003, 92661755004, 92661755005, 92661755006, 92661755007

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92662125001

METHOD BLANK: 3987876 Matrix: Water
Associated Lab Samples: 92662125001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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: 92662490001, 92662561001

METHOD BLANK: 3990417 Matrix: Water
Associated Lab Samples: 92662490001, 92662561001

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	

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QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

QC Batch: 768602
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

METHOD BLANK: 3990423 Matrix: Water
Associated Lab Samples: 92662561002, 92662561003, 92662561004, 92662561005, 92662561006, 92662561007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/18/23 23:37	
Fluoride	mg/L	ND	0.10	0.050	04/18/23 23:37	
Sulfate	mg/L	ND	1.0	0.50	04/18/23 23:37	

LABORATORY CONTROL SAMPLE: 3990424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3990425 3990426

Parameter	Units	92662561002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	47.8	50	50	95.1	96.2	95	97	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.9	2.8	109	109	90-110	0	10	
Sulfate	mg/L	97.7	50	50	145	144	95	93	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3990427 3990428

Parameter	Units	92662420003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.8	50	50	56.9	56.0	98	96	90-110	2	10	
Fluoride	mg/L	0.20	2.5	2.5	2.7	2.7	101	99	90-110	2	10	
Sulfate	mg/L	16.0	50	50	66.1	65.5	100	99	90-110	1	10	

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QUALIFIERS

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92661755001	**041023NMW25**	EPA 3010	910373	EPA 6010	910398
92661755002	**041023NMW26**	EPA 3010	910373	EPA 6010	910398
92661755003	**041023NMW27**	EPA 3010	910373	EPA 6010	910398
92661755004	**041023NMW34**	EPA 3010	910373	EPA 6010	910398
92661755005	**041023FBLAP**	EPA 3010	910373	EPA 6010	910398
92661755006	**041023FDLAP**	EPA 3010	910373	EPA 6010	910398
92661755007	**041023EBLAP**	EPA 3010	910373	EPA 6010	910398
92662125001	**041223NMWB50**	EPA 3010	910373	EPA 6010	910398
92662490001	**041323NMW36S**	EPA 3010	911176	EPA 6010	911255
92662561001	**041423NMW20**	EPA 3010	911169	EPA 6010	911249
92662561002	**041423NMW21R**	EPA 3010	911169	EPA 6010	911249
92662561003	**041423NMW22R**	EPA 3010	911169	EPA 6010	911249
92662561004	**041423NMW23R**	EPA 3010	911169	EPA 6010	911249
92662561005	**041423NMW28**	EPA 3010	911169	EPA 6010	911249
92662561006	**041423NMW32SR**	EPA 3010	911169	EPA 6010	911249
92662561007	**041423NMW33R**	EPA 3010	911169	EPA 6010	911249
92661755001	**041023NMW25**	EPA 3010A	770549	EPA 6020B	770663
92661755002	**041023NMW26**	EPA 3010A	770549	EPA 6020B	770663
92661755003	**041023NMW27**	EPA 3010A	770549	EPA 6020B	770663
92661755004	**041023NMW34**	EPA 3010A	770549	EPA 6020B	770663
92661755005	**041023FBLAP**	EPA 3010A	770549	EPA 6020B	770663
92661755006	**041023FDLAP**	EPA 3010A	770549	EPA 6020B	770663
92661755007	**041023EBLAP**	EPA 3010A	770549	EPA 6020B	770663
92662125001	**041223NMWB50**	EPA 3010A	770549	EPA 6020B	770663
92662490001	**041323NMW36S**	EPA 3010A	769838	EPA 6020B	769910
92662561001	**041423NMW20**	EPA 3010A	769838	EPA 6020B	769910
92662561002	**041423NMW21R**	EPA 3010A	769838	EPA 6020B	769910
92662561003	**041423NMW22R**	EPA 3010A	769838	EPA 6020B	769910
92662561004	**041423NMW23R**	EPA 3010A	769838	EPA 6020B	769910
92662561005	**041423NMW28**	EPA 3010A	769838	EPA 6020B	769910
92662561006	**041423NMW32SR**	EPA 3010A	769838	EPA 6020B	769910
92662561007	**041423NMW33R**	EPA 3010A	769838	EPA 6020B	769910
92661755001	**041023NMW25**	EPA 7470A	770519	EPA 7470A	770732
92661755002	**041023NMW26**	EPA 7470A	770519	EPA 7470A	770732
92661755003	**041023NMW27**	EPA 7470A	770519	EPA 7470A	770732
92661755004	**041023NMW34**	EPA 7470A	770519	EPA 7470A	770732
92661755005	**041023FBLAP**	EPA 7470A	770519	EPA 7470A	770732
92661755006	**041023FDLAP**	EPA 7470A	770519	EPA 7470A	770732
92661755007	**041023EBLAP**	EPA 7470A	770519	EPA 7470A	770732
92662125001	**041223NMWB50**	EPA 7470A	770519	EPA 7470A	770732
92662490001	**041323NMW36S**	EPA 7470A	770883	EPA 7470A	771043
92662561001	**041423NMW20**	EPA 7470A	770884	EPA 7470A	771042
92662561002	**041423NMW21R**	EPA 7470A	770884	EPA 7470A	771042
92662561003	**041423NMW22R**	EPA 7470A	770884	EPA 7470A	771042
92662561004	**041423NMW23R**	EPA 7470A	770884	EPA 7470A	771042

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-C
Pace Project No.: 92661755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662561005	**041423NMW28**	EPA 7470A	770884	EPA 7470A	771042
92662561006	**041423NMW32SR**	EPA 7470A	770884	EPA 7470A	771042
92662561007	**041423NMW33R**	EPA 7470A	770884	EPA 7470A	771042
92661755001	**041023NMW25**	SM 2540C-2011	767806		
92661755002	**041023NMW26**	SM 2540C-2011	767806		
92661755003	**041023NMW27**	SM 2540C-2011	767806		
92661755004	**041023NMW34**	SM 2540C-2011	767806		
92661755005	**041023FBLAP**	SM 2540C-2011	767806		
92661755006	**041023FDLAP**	SM 2540C-2011	767806		
92661755007	**041023EBLAP**	SM 2540C-2011	767806		
92662490001	**041323NMW36S**	SM 2540C-2011	768627		
92662561001	**041423NMW20**	SM 2540C-2011	768627		
92662561002	**041423NMW21R**	SM 2540C-2011	768802		
92662561003	**041423NMW22R**	SM 2540C-2011	768802		
92662561004	**041423NMW23R**	SM 2540C-2011	768802		
92662561005	**041423NMW28**	SM 2540C-2011	768802		
92662561006	**041423NMW32SR**	SM 2540C-2011	768802		
92662561007	**041423NMW33R**	SM 2540C-2011	768802		
92661755001	**041023NMW25**	EPA 9056A	767989		
92661755002	**041023NMW26**	EPA 9056A	767989		
92661755003	**041023NMW27**	EPA 9056A	767989		
92661755004	**041023NMW34**	EPA 9056A	767989		
92661755005	**041023FBLAP**	EPA 9056A	767989		
92661755006	**041023FDLAP**	EPA 9056A	767989		
92661755007	**041023EBLAP**	EPA 9056A	767989		
92662125001	**041223NMWB50**	EPA 9056A	768103		
92662490001	**041323NMW36S**	EPA 9056A	768601		
92662561001	**041423NMW20**	EPA 9056A	768601		
92662561002	**041423NMW21R**	EPA 9056A	768602		
92662561003	**041423NMW22R**	EPA 9056A	768602		
92662561004	**041423NMW23R**	EPA 9056A	768602		
92662561005	**041423NMW28**	EPA 9056A	768602		
92662561006	**041423NMW32SR**	EPA 9056A	768602		
92662561007	**041423NMW33R**	EPA 9056A	768602		

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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# : 92661755

92661755

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: GMH 4/12/23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92676

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.6 **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

Cooler Temp Corrected (°C): 1.6

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

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# : 92661755

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)	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		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.

COC ID: CPS-1SA2023-CCR-GroupC-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 1-2

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:	Kelly.a.hicks@dominionenergy.com	Company Name:	
Suite 200, Richmond, VA 23227				Address:	
Email:	arielle_green@golder.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (C)	Pace Project Manager:	angela.baioni@pacelabs.com,
Requested Due Date:	STANDARD TAT	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)	Analyses Test	Select metals 6010/6020	Mercury by 7470	9056-SO4, Fl, Cl	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	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		All Sample preserved on ice 92661755	
1	~~04 23NMW20~~	WT																		x	x	x	x	x			
2	~~04 23NMW21R~~	WT																		x	x	x	x	x			
3	~~04 23NMW22R~~	WT																		x	x	x	x	x			
4	~~04 23NMW23R~~	WT																		x	x	x	x	x			
5	~~04 23NMW24~~	WT																		x	x	x	x	x			
6	04 10 23NMW25	WT	G	—	—	4/10/23	1110		6	X		X								x	x	x	x	x		pH = 6.07 SU	001
7	04 10 23NMW26	WT	G	—	—	4/10/23	1125		6	X		X								x	x	x	x	x		pH = 5.80 SU	002
8	04 10 23NMW27	WT	G	—	—	4/10/23	1000		6	X		X								x	x	x	x	x		pH = 5.71 SU	003
9	~~04 23NMW28~~ ~ 041023NMW34	WT	G	—	—	4/10/23	1010		6	X		X								x	x	x	x	x		pH = 6.47 SU	004
10	~~04 23NMWB50~~ ~ 041023FBLAP	WT	G	—	—	4/10/23	1205		6	X		X								x	x	x	x	x			005
11	~~04 23NMW32SR~~ ~ 041023FDLAP	WT	G	—	—	4/10/23	1125		6	X		X								x	x	x	x	x			006
12	~~04 23NMW33R~~ ~ 041023EBLAP	WT	G	—	—	4/10/23	1200		6	X		X								x	x	x	x	x			007

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level II Data Package	Cobb / WSP	4/10/23	1630	[signature] Pace	4/10/23	1630	5%	Y	Y	Y
STANDARD TAT	[signature] Pace	4/11/23	1600	Gavin Pace PM	4/12/23	0955	Ice	Y	N	Y
All Samples preserved on ice										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	C. Megee / M. Knez		
SIGNATURE of SAMPLER:	Cobb / M. Knez	DATE Signed:	04/10/23

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#: 92661755

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: AJC 4/5/23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92670

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 0.2 **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): 0.2

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 container for TDS.

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#:92661755

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)	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				
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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-LAP-C-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 2

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:	Kelly.a.nichols@dominion energy.com	Company Name:	
Suite 200, Richmond, VA 23227				Address:	
Email:	arielle_green@golder.com	Purchase Order #:		Pace Quote:	
Phone:	(804)358-7900 Fax:	Project Name:	Chesterfield Power Station (C)	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: Select metals 6010/6020	Mercury by 7470	9056-SO4, Fl, Cl	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)
	Requested Analysis Filtered (Y/N)																	N	N	N	N	N	
1	04 ~~29NMW20~~ CM	WT																X	X	X	X	X	
2	~~04~~ ~~23NMW21R~~ CM	WT																X	X	X	X	X	
3	04 ~~23NMW22R~~ CM	WT																X	X	X	X	X	
4	04 ~~23NMW23R~~ CM	WT																X	X	X	X	X	
5	~~04~~ ~~23NMW24~~ CM	WT																X	X	X	X	X	
6	04 ~~23NMW25~~ CM	WT																X	X	X	X	X	
7	04 ~~23NMW26~~ CM	WT																X	X	X	X	X	
8	04 ~~23NMW27~~ CM	WT																X	X	X	X	X	
9	04 ~~23NMW28~~ CM	WT																X	X	X	X	X	
10	04 12 23NMWB50	WT	G	4/12/23	1200	—	—		6	X	X	X	X					X	X	X	X	X	92662125
11	~~04~~ ~~23NMW32SR~~ CM	WT																X	X	X	X	X	001
12	~~04~~ ~~23NMW33R~~ CM	WT																X	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level II Data Package	M. Knoz / WSP	4/12/23	1501	[signature] PACE	4/12/23	1501
STANDARD TAT	[signature] PACE	4/12/23	1600	APacePaceHW	4-13-23	0825
All Samples preserved on ice						

SAMPLE CONDITIONS			
TEMP in C	0.2	Y	Y
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. Weideman

SIGNATURE of SAMPLER: [signature] 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

Proje

WO# : 92662490

92662490

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

Carrier Tracking Number: 7718, 5764, 9136

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: 92070 **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: 1.7, 1.3, .5
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# : 92662490

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																													
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-LAP-C-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.

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 (C)	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	START TIME	END DATE	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-SO4, Fl, Cl	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS	pH Field	Residual Chlorine (Y/N)	92662490
	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	N	N	N	N	N			
13	~~04_23NMW34~~	WT																	X	X	X	X	X			
14	04B23NMW36S	WT	G	4/13/23	0950	—	—		6	X		X							X	X	X	X	X	6.39		001
15	~~04_23FBLAP~~	WT																	X	X	X	X	X			
16	~~04_23FDLAP~~	WT																	X	X	X	X	X			
17	~~04_23EBLAP~~	WT																	X	X	X	X	X			
18		WT																	X	X	X	X	X			
19																										
20																										
21																										
22																										
23																										
24																										

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. Weideman TWSP	4/13/23	1642	[signature] PACE	4/13/23	1642	5.5	T	T	T
STANDARD TAT	[signature] PACE	4/14/23	1600	MDG Pace HV	4-15-23	11:30	0.7	Y	Y	Y
All Samples preserved once							0.3			
							5			

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	M. Weideman
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	04/13/23

Pace ANALYTICAL SERVICES

Receipt
Effective Date:

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Dominion Energy - VA

Project **WO#: 92662490**
PM: AMB Due Date: 05/01/23
CLIENT: 92-DomEnergy

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

Carrier Tracking Number: 3970 3611 7342

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Date/Initials Person Examining Contents:** TDS 4/17/23

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

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T020 **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** 1430
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**

Projec

WO# : 92662490

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)	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																		BP1N				
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																												
11																												
12																												

MG 4-17-23

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-1SA2023-CCR-GAP-C-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.

Section A — Required Client Information:

Company:	Dominion Energy_VA
Address:	2108 W. Laburnum Ave.
	Suite 200, Richmond, VA 23227
Email:	arielle_green@golder.com
Phone: (804)358-7900	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	Arielle Green
Copy To:	Kelly.a.nichols@dominion energy.com
Purchase Order #:	
Project Name:	Chesterfield Power Station (C)
Project #:	324060660.007

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	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	Y/N	Analyses Test: Select metals 6010/6020	Mercury by 7470	9056-SO4, Fl, Cl	Radium 226/228, Comb Ra	Total Dissolved Solids (TDS)	pH (Field) SU							Residual Chlorine (Y/N)	92662561
1	04 14 23NMW20	WT	G	4/14/23	1000	—	—		6	X		X							X	X	X	X	X	6.85						001
2	04 14 23NMW21R	WT	G	4/14/23	1115	—	—		6	X		X							X	X	X	X	X	6.88						002
3	04 14 23NMW22R	WT	G	4/14/23	1315	—	—		6	X		X							X	X	X	X	X	6.58						003
4	04 14 23NMW23R	WT	G	4/14/23	0950	—	—		6	X		X							X	X	X	X	X	6.50						004
5	~~04 23NMW24~~ ⊂	WT																	X	X	X	X	X							
6	~~04 23NMW25~~ ⊂	WT																	X	X	X	X	X							
7	~~04 23NMW26~~ ⊂	WT																	X	X	X	X	X							
8	~~04 23NMW27~~ ⊂	WT																	X	X	X	X	X							
9	04 14 23NMW28	WT	G	4/14/23	0910	—	—		6	X		X							X	X	X	X	X	7.01						005
10	~~04 23NMWB50~~ ⊂	WT																	X	X	X	X	X							
11	04 14 23NMW32SR	WT	G	4/14/23	1215	—	—		6	X		X							X	X	X	X	X	6.11						006
12	04 14 23NMW33R	WT	G	4/14/23	1010	—	—		6	X		X							X	X	X	X	X	6.63						007

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. Kreidler/WSP	4/14/23	1447	Rachel Burruss/PACE	4-14-23	1447	0.3	Y	Y	Y
STANDARD TAT	Rachel Burruss/PACE	4-14-23	1630	TJSI Pace	4/14/23	1630	3.7	Y	N	Y
All Samples Preserved										
On ice										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Kreidler / M. Kiez / C. Megee

SIGNATURE of SAMPLER: M. Kreidler / M. Kiez / C. Megee — DATE Signed: 04/14/23

ANALYTICAL REPORT

May 26, 2023

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1605797
Samples Received:	04/15/2023
Project Number:	92661755
Description:	CPS-1SA2023-CCR-C
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.



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041023NMW25 L1605797-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 11:10	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 12:49	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023NMW26 L1605797-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 11:25	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 12:49	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023NMW27 L1605797-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 10:00	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 12:49	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023NMW34 L1605797-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 10:10	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 12:49	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023FBLAP L1605797-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 12:05	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 13:20	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023FDLAP L1605797-06 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 11:25	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 13:20	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

041023EBLAP L1605797-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/10/23 12:00	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 13:20	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

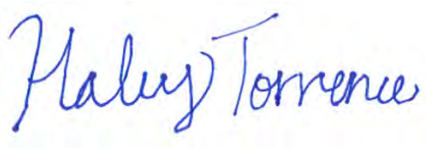
041023NMWB50 L1605797-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 12:00	04/15/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2051778	1	05/11/23 11:40	05/17/23 13:20	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2060717	1	05/16/23 11:34	05/20/23 11:16	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2051778	1	05/11/23 11:40	05/20/23 11:16	SNR	Mt. Juliet, TN

CASE NARRATIVE

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	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.287	U	0.341	0.365	05/17/2023 12:49	WG2051778
(T) Barium	*102*			*30.0-143*	*05/17/2023 12:49*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.290	U	0.218	0.408	05/20/2023 11:16	WG2060717
(T) Barium	*110*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*118*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.287	J	0.405	0.547	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.447		0.406	0.359	05/17/2023 12:49	WG2051778
(T) Barium	*103*			*30.0-143*	*05/17/2023 12:49*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.484		0.190	0.333	05/20/2023 11:16	WG2060717
(T) Barium	*119*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*119*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.931		0.448	0.490	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	2.33		0.876	0.439	05/17/2023 12:49	WG2051778
(T) Barium	*110*			*30.0-143*	*05/17/2023 12:49*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.59		0.318	0.487	05/20/2023 11:16	WG2060717
(T) Barium	*111*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*119*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.92		0.932	0.656	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.873		0.553	0.366	05/17/2023 12:49	WG2051778
(T) Barium	*103*			*30.0-143*	*05/17/2023 12:49*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.265	J	0.212	0.379	05/20/2023 11:16	WG2060717
(T) Barium	*123*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*103*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.14		0.592	0.527	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.204	U	0.300	0.362	05/17/2023 13:20	WG2051778
(T) Barium	*102*			*30.0-143*	*05/17/2023 13:20*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.280	U	0.226	0.421	05/20/2023 11:16	WG2060717
(T) Barium	*110*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*109*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.204	J	0.376	0.555	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.969		0.584	0.377	05/17/2023 13:20	WG2051778
(T) Barium	*96.1*			*30.0-143*	*05/17/2023 13:20*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.156	U	0.275	0.495	05/20/2023 11:16	WG2060717
(T) Barium	*120*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*101*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.646	0.622	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.0799	U	0.271	0.451	05/17/2023 13:20	WG2051778
(T) Barium	*106*			*30.0-143*	*05/17/2023 13:20*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0453	U	0.249	0.455	05/20/2023 11:16	WG2060717
(T) Barium	*103*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*109*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0799	U	0.368	0.641	05/20/2023 11:16	WG2051778

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Radium-226	0.479		0.435	0.386	05/17/2023 13:20	WG2051778
(T) Barium	*95.1*			*30.0-143*	*05/17/2023 13:20*	WG2051778

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0117	U	0.240	0.438	05/20/2023 11:16	WG2060717
(T) Barium	*110*			*30.0-143*	*05/20/2023 11:16*	WG2060717
(T) Yttrium	*110*			*30.0-136*	*05/20/2023 11:16*	WG2060717

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.479	J	0.497	0.584	05/20/2023 11:16	WG2051778

Method Blank (MB)

(MB) R3926731-1 05/17/23 11:18

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.204	J	0.211	0.279
(T) Barium	*106*		*106*	

L1605791-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1605791-10 05/17/23 12:19 • (DUP) R3926731-5 05/17/23 11:49

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	0.129	0.266	0.382	0.818	0.848	0.382	1	146	0.776	J	20	3
(T) Barium	*96.2*			*99.1*	*99.1*							

Laboratory Control Sample (LCS)

(LCS) R3926731-2 05/17/23 11:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.15	82.8	80.0-120	
(T) Barium			*97.0*		

L1614259-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1614259-02 05/18/23 16:53 • (MS) R3926731-3 05/17/23 11:18 • (MSD) R3926731-4 05/17/23 11:18

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	0.101	17.4	16.2	86.4	80.7	1	75.0-125			6.84		20
(T) Barium		*103*			*105*	*103*							

QUALITY CONTROL SUMMARY

L1605797-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3929447-1 05/20/23 11:16

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	-0.0478	U	0.178	0.158
(T) Barium	*113*		*113*	
(T) Yttrium	*96.9*		*96.9*	

L1605791-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1605791-13 05/20/23 11:16 • (DUP) R3929447-5 05/20/23 11:16

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	0.127	0.232	0.420	0.287	0.382	0.420	1	77.1	0.357	U	20	3
(T) Barium	*112*			*110*	*110*							
(T) Yttrium	*112*			*99.9*	*99.9*							

Laboratory Control Sample (LCS)

(LCS) R3929447-2 05/20/23 11:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.52	90.3	80.0-120	
(T) Barium			*115*		
(T) Yttrium			*111*		

L1605791-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1605791-01 05/20/23 11:16 • (MS) R3929447-3 05/20/23 11:16 • (MSD) R3929447-4 05/20/23 11:16

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	0.604	9.63	9.12	90.3	85.2	1	70.0-130			5.42		20
(T) Barium		*97.6*			*117*	*105*							
(T) Yttrium		*111*			*114*	*106*							

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

☐ 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

Pace Analytical®
www.pacelabs.com

Workorder: 92661755 Workorder Name: CPS-1SA2023-CCR-C

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	041023NMW25	PS	4/10/2023 11:10	92661755001	Water	2	X	X	-01
2	041023NMW26	PS	4/10/2023 11:25	92661755002	Water	1	X	X	-02
3	041023NMW27	PS	4/10/2023 10:00	92661755003	Water	1	X	X	-03
4	041023NMW34	PS	4/10/2023 10:10	92661755004	Water	1	X	X	-04
5	041023FBLAP	PS	4/10/2023 12:05	92661755005	Water	1	X	X	-05
6	041023FDLAP	PS	4/10/2023 11:25	92661755006	Water	1	X	X	-06
7	041023EBLAP	PS	4/10/2023 12:00	92661755007	Water	1	X	X	-07
8	041223NMWB50	PS	4/12/2023 12:00	92662125001	Water	1	X	X	-08

U1605797
K046

Transfers	Released By	Date/Time	Received By	Date/Time
1	AVRcon HVC	4/14/23 1100	[illegible]	4/15/23 0400
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		

L1605797

Pace Analytical®
www.pacelabs.com

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 92661755
(To be completed by sending lab)

Sending Project No:	92661755
Receiving Project No:	
Check Box for Consolidated Invoice?	☐
Date Prepared:	04/14/23
REQUESTED COMPLETION DATE:	**4/26/2023**

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 228 9320, Combined Ra	BP1N	16	HNO3	8	$49.00	$392.00
Ra226 903.0/9315	BP1N		HNO3	8	$49.00	$392.00
					TOTAL	$784.00

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	$784.00	$627.20	$156.80
* Custom Revenue Allocation	TOTAL	$784.00	$627.20	$156.80

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

June 06, 2023

Pace Analytical - Huntersville, NC

Sample Delivery Group:	L1607421
Samples Received:	04/20/2023
Project Number:	92662490
Description:	CPS-15A2023-CCR-LAP-C
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.



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041323 NMW36S L1607421-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 09:50	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:03	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	WG2055954	1	05/17/23 09:43	06/01/23 13:03	SNR	Mt. Juliet, TN

041323 NMW20 L1607421-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 10:00	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:03	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	WG2055954	1	05/17/23 09:43	06/01/23 13:03	SNR	Mt. Juliet, TN

041323 NMW21R L1607421-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 11:15	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:03	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	WG2055954	1	05/17/23 09:43	06/01/23 13:03	SNR	Mt. Juliet, TN

041323 NMW22R L1607421-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 13:15	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:34	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	WG2055954	1	05/17/23 09:43	06/01/23 13:34	SNR	Mt. Juliet, TN

041323 NMW23R L1607421-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 09:50	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:34	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062530	1	05/18/23 20:05	06/01/23 17:00	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055954	1	05/17/23 09:43	06/01/23 17:00	SNR	Mt. Juliet, TN

041323 NMW28 L1607421-06 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 09:10	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:34	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062530	1	05/18/23 20:05	06/01/23 17:00	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055954	1	05/17/23 09:43	06/01/23 17:00	SNR	Mt. Juliet, TN

041323 NMW32SR L1607421-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 12:15	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 13:34	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062530	1	05/18/23 20:05	06/01/23 17:00	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055954	1	05/17/23 09:43	06/01/23 17:00	SNR	Mt. Juliet, TN

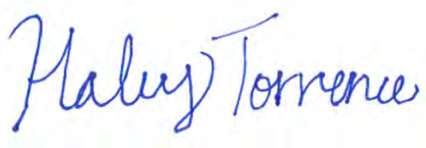
041323 NMW33R L1607421-08 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/13/23 10:10	04/20/23 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2055954	1	05/17/23 09:43	06/01/23 14:04	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2062530	1	05/18/23 20:05	06/01/23 17:00	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2055954	1	05/17/23 09:43	06/01/23 17:00	SNR	Mt. Juliet, TN

CASE NARRATIVE

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	1.04		0.412	0.233	06/01/2023 13:03	WG2055954
(T) Barium	*101*			*30.0-143*	*06/01/2023 13:03*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.160	U	0.617	0.863	05/23/2023 09:20	WG2062012
(T) Barium	*125*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*46.5*			*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	1.20		0.742	0.894	06/01/2023 13:03	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.604		0.325	0.285	06/01/2023 13:03	WG2055954
(T) Barium	*101*			*30.0-143*	*06/01/2023 13:03*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.939		0.472	0.638	05/23/2023 09:20	WG2062012
(T) Barium	*101*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*58.2*			*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	1.54		0.573	0.699	06/01/2023 13:03	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.630		0.335	0.243	06/01/2023 13:03	WG2055954
(T) Barium	*91.8*			*30.0-143*	*06/01/2023 13:03*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-1.02	U	0.666	0.959	05/23/2023 09:20	WG2062012
(T) Barium	*108*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*52.5*			*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	0.630	J	0.746	0.989	06/01/2023 13:03	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.703		0.369	0.343	06/01/2023 13:34	WG2055954
(T) Barium	*92.4*			*30.0-143*	*06/01/2023 13:34*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.243	U	0.445	0.634	05/23/2023 09:20	WG2062012
(T) Barium	*113*			*30.0-143*	*05/23/2023 09:20*	WG2062012
(T) Yttrium	*73.2*			*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	0.703	J	0.578	0.721	06/01/2023 13:34	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.428		0.271	0.232	06/01/2023 13:34	WG2055954
(T) Barium	*101*			*30.0-143*	*06/01/2023 13:34*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.453	U	0.290	0.537	06/01/2023 17:00	WG2062530
(T) Barium	*88.2*			*30.0-143*	*06/01/2023 17:00*	WG2062530
(T) Yttrium	*110*			*30.0-136*	*06/01/2023 17:00*	WG2062530

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.428	J	0.397	0.585	06/01/2023 17:00	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.242	J	0.223	0.285	06/01/2023 13:34	WG2055954
(T) Barium	*101*			*30.0-143*	*06/01/2023 13:34*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.0350	U	0.266	0.481	06/01/2023 17:00	WG2062530
(T) Barium	*90.0*			*30.0-143*	*06/01/2023 17:00*	WG2062530
(T) Yttrium	*117*			*30.0-136*	*06/01/2023 17:00*	WG2062530

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.277	J	0.347	0.559	06/01/2023 17:00	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.977		0.395	0.231	06/01/2023 13:34	WG2055954
(T) Barium	*100*			*30.0-143*	*06/01/2023 13:34*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.0816	U	0.380	0.681	06/01/2023 17:00	WG2062530
(T) Barium	*77.2*			*30.0-143*	*06/01/2023 17:00*	WG2062530
(T) Yttrium	*109*			*30.0-136*	*06/01/2023 17:00*	WG2062530

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.06		0.548	0.719	06/01/2023 17:00	WG2055954

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Radium-226	0.298	J	0.252	0.326	06/01/2023 14:04	WG2055954
(T) Barium	*99.2*			*30.0-143*	*06/01/2023 14:04*	WG2055954

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.137	U	0.344	0.622	06/01/2023 17:00	WG2062530
(T) Barium	*82.5*			*30.0-143*	*06/01/2023 17:00*	WG2062530
(T) Yttrium	*104*			*30.0-136*	*06/01/2023 17:00*	WG2062530

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.298	J	0.426	0.702	06/01/2023 17:00	WG2055954

Method Blank (MB)

(MB) R3931841-1 06/01/23 12:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.111	J	0.115	0.215
(T) Barium	*97.7*		*97.7*	

L1607421-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1607421-02 06/01/23 13:03 • (DUP) R3931841-5 06/01/23 13:03

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	0.604	0.325	0.285	0.197	0.362	0.285	1	102	0.836	J	20	3
(T) Barium	*101*			*103*	*103*							

Laboratory Control Sample (LCS)

(LCS) R3931841-2 06/01/23 12:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.84	117	80.0-120	
(T) Barium			*98.0*		

L1607916-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607916-10 06/01/23 14:34 • (MS) R3931841-3 06/01/23 12:33 • (MSD) R3931841-4 06/01/23 12:33

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	1.89	26.3	23.7	122	109	1	75.0-125			10.3		20
(T) Barium		*91.8*			*103*	*107*							

Method Blank (MB)

(MB) R3929488-1 05/23/23 09:20

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	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	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	0.160	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
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	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	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*							

Method Blank (MB)

(MB) R3932971-2 06/01/23 17:00

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-228	0.000	U	0.136	0.249
(T) Barium	*101*		*101*	
(T) Yttrium	*113*		*113*	

L1607643-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1607643-01 06/01/23 17:00 • (DUP) R3932971-4 06/01/23 17:00

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	-0.308	0.330	0.597	-0.496	0.394	0.597	1	0.000	0.366	U	20	3
(T) Barium	*87.4*			*88.9*	*88.9*							
(T) Yttrium	*97.7*			*110*	*110*							

Laboratory Control Sample (LCS)

(LCS) R3932971-1 05/27/23 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	5.72	114	80.0-120	
(T) Barium			*92.8*		
(T) Yttrium			*69.0*		

L1607916-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607916-02 06/01/23 17:00 • (MS) R3932971-3 06/01/23 17:00 • (MSD) R3932971-5 06/01/23 17:00

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	3.89	12.9	11.9	90.3	80.1	1	70.0-130			8.22		20
(T) Barium		*90.6*			*92.1*	*93.2*							
(T) Yttrium		*106*			*113*	*112*							

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.

E127

Internal Transfer Chain of Custody

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☐ 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: 92662490 Workorder Name: CPS-15A2023-CCR-LAP-C

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
1	041323 NMW36S	PS	4/13/2023 09:50	92662490001	Water	1	X	X	-01
2	041423 NMW20	PS	4/14/2023 10:00	92662561001	Water	1	X	X	-02
3	041423 NMW21R	PS	4/14/2023 11:15	92662561002	Water	1	X	X	-03
4	041423 NMW22R	PS	4/14/2023 13:15	92662561003	Water	1	X	X	-04
5	041423 NMW23R	PS	4/14/2023 09:50	92662561004	Water	1	X	X	-05
6	041423 NMW28	PS	4/14/2023 09:10	92662561005	Water	1	X	X	-06
7	041423 NMW32SR	PS	4/14/2023 12:15	92662561006	Water	1	X	X	-07
8	041423 NMW33R	PS	4/14/2023 10:10	92662561007	Water	1	X	X	-08

6160 7424

Transfers	Released By	Date/Time	Received By	Date/Time
1	AV/Pace Hvl	4/19/23 1800		
2				
3			HANNA MINECHINGA	4-20-23 0910

Comments: Dominion Energy

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.

5767 2591 6005
1.9+0=1.9

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		

L1607421

Pace Analytical®
www.pacelabs.com

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 92662490
(To be completed by sending lab)

Sending Project No:	92662490
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	04/19/23
REQUESTED COMPLETION DATE:	5/1/2023 5-18-23 (AMR)

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	16	HNO3	8	$49.00	$392.00
Ra228 9320, Combined Ra	BP1N		HNO3	8	$49.00	$392.00
					TOTAL	$784.00

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	$784.00	$627.20	$156.80
* Custom Revenue Allocation	TOTAL	$784.00	$627.20	$156.80

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.

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

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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

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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

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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

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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	

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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:

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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:

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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:

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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:

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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.

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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

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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

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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	

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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	

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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	

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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	

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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	

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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.

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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		

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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.



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041223NMW29U L1605781-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/12/23 11:35	04/15/23 09:00

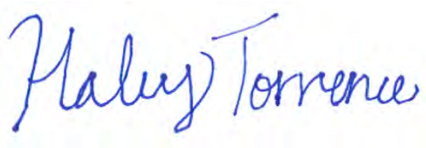
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2050046	1	05/04/23 12:47	05/10/23 19:33	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2059132	1	05/12/23 21:28	05/17/23 19:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	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

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☐ 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

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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

June 05, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 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

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Huntersville, NC 28078
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CERTIFICATIONS

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92662065001	**041223NMWB50**	Water	04/12/23 12:00	04/13/23 09:25

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SAMPLE ANALYTE COUNT

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92662065001	**041223NMWB50**	SM 2540C-2011	RVS	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92662065001	**041223NMWB50**					
SM 2540C-2011	Total Dissolved Solids	478	mg/L	25.0	04/14/23 20:18	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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PROJECT NARRATIVE

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Method: **SM 2540C-2011**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: June 05, 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.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Sample: 041223NMWB50 **Lab ID: 92662065001** Collected: 04/12/23 12:00 Received: 04/13/23 09:25 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	**478**	mg/L	25.0	25.0	1		04/14/23 20:18		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

QC Batch: 768251
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: 92662065001

METHOD BLANK: 3988907 Matrix: Water
Associated Lab Samples: 92662065001

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

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

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.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS-1SA2023-CCR-F
Pace Project No.: 92662065

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92662065001	**041223NMWB50**	SM 2540C-2011	768251		

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COCID: CPS-1SA2023-CCR-F-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.hicks@dominionenergy.com	Address:	Regulatory Agency
Email: arielle_green@golder.com	Purchase Order #:	Pace Quote:	
Phone: (804)358-7900 Fax:	Project Name: Chesterfield Power Station (F)	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	Analyses Test Y/N	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)
1	04/12 23NMWB50	WT	G	4/12/23	1200	—	—		1	X									X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (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

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] Pace	4/12/23	1501	2.9
STANDARD TAT							
All Samples preserved on ice							

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER: M. Heideman					
SIGNATURE of SAMPLER: [signature]	DATE Signed: 04/12/23				

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	X	X	X

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

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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

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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

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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

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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	

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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.

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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

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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

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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.

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J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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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.

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SG - Silica Gel - Clean-Up

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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.

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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		

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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

APPENDIX B.2

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

December 07, 2023

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

RE: Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Dear Kelly Hicks:

Enclosed are the analytical results for sample(s) received by the laboratory between October 11, 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

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.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692691001	**101023NB50**	Water	10/10/23 12:45	10/11/23 11:15
92692691002	**101223NMW36S**	Water	10/12/23 09:30	10/13/23 11:45
92692691003	**101223FDLAP**	Water	10/12/23 09:40	10/13/23 11:45
92692691004	**101223NMW28**	Water	10/12/23 09:15	10/13/23 11:45
92692691005	**101223EBLAP**	Water	10/12/23 10:25	10/13/23 11:45
92692691006	**101223NMW20**	Water	10/12/23 11:30	10/13/23 11:45
92692691007	**101223NMW21R**	Water	10/12/23 11:15	10/13/23 11:45
92692691008	**101223NMW33R**	Water	10/12/23 13:05	10/13/23 11:45
92692691009	**101223NMW22R**	Water	10/12/23 13:30	10/13/23 11:45
92692691010	**101223NMW23R**	Water	10/12/23 17:05	10/14/23 10:55
92692691011	**101223NMW32SR**	Water	10/12/23 16:45	10/14/23 10:55
92692691012	**101323NMW25**	Water	10/13/23 11:45	10/14/23 10:55
92692691013	**101323NMW26**	Water	10/13/23 10:55	10/14/23 10:55
92692691014	**101323NMW27**	Water	10/13/23 09:20	10/14/23 10:55
92692691015	**101323NMW34**	Water	10/13/23 09:50	10/14/23 10:55
92692691016	**101323FBLAP**	Water	10/13/23 10:20	10/14/23 10:55

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SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692691001	**101023NB50**	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
92692691002	**101223NMW36S**	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
92692691003	**101223FDLAP**	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
92692691004	**101223NMW28**	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
92692691005	**101223EBLAP**	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
92692691006	**101223NMW20**	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
92692691007	**101223NMW21R**	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
92692691008	**101223NMW33R**	EPA 6010D	DBB1	7	PASI-A
		EPA 6020B	KRL	7	PASI-A
		EPA 7470A	BM	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	RVS	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92692691009	**101223NMW22R**	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
92692691010	**101223NMW23R**	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
92692691011	**101223NMW32SR**	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
92692691012	**101323NMW25**	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
92692691013	**101323NMW26**	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
92692691014	**101323NMW27**	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
92692691015	**101323NMW34**	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

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SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692691016	**101323FBLAP**	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

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SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692691001	**101023NB50**					
EPA 6010D	Barium	88.0	ug/L	5.0	10/12/23 23:49	
EPA 6010D	Boron	383	ug/L	50.0	10/13/23 15:41	
EPA 6010D	Calcium	74100	ug/L	100	10/12/23 23:49	
EPA 6020B	Arsenic	0.88J	ug/L	1.0	10/13/23 17:18	
EPA 6020B	Cobalt	0.87J	ug/L	1.0	10/13/23 17:18	
EPA 6020B	Lead	0.14J	ug/L	1.0	10/13/23 17:18	
EPA 6020B	Molybdenum	0.53J	ug/L	1.0	10/13/23 17:18	
EPA 6020B	Thallium	0.15J	ug/L	0.20	10/13/23 17:18	
EPA 9056A	Chloride	70.9	mg/L	1.0	10/14/23 02:49	
EPA 9056A	Fluoride	0.14	mg/L	0.10	10/14/23 02:49	
EPA 9056A	Sulfate	64.7	mg/L	1.0	10/14/23 02:49	
92692691002	**101223NMW36S**					
EPA 6010D	Barium	367	ug/L	5.0	10/18/23 13:51	
EPA 6010D	Boron	173	ug/L	50.0	10/18/23 13:51	
EPA 6010D	Calcium	22200	ug/L	100	10/18/23 13:51	
EPA 6020B	Arsenic	17.7	ug/L	1.0	10/18/23 02:48	
EPA 6020B	Cobalt	13.0	ug/L	1.0	10/18/23 02:48	
EPA 6020B	Lead	0.14J	ug/L	1.0	10/18/23 02:48	
EPA 6020B	Lithium	0.76J	ug/L	2.5	10/18/23 02:48	
EPA 6020B	Molybdenum	4.3	ug/L	1.0	10/18/23 02:48	
SM 2540C-2015	Total Dissolved Solids	237	mg/L	25.0	10/17/23 18:33	
EPA 9056A	Chloride	55.0	mg/L	1.0	10/14/23 13:01	
EPA 9056A	Fluoride	0.089J	mg/L	0.10	10/14/23 13:01	
92692691003	**101223FDLAP**					
EPA 6010D	Barium	381	ug/L	5.0	10/18/23 13:54	
EPA 6010D	Boron	180	ug/L	50.0	10/18/23 13:54	
EPA 6010D	Calcium	23200	ug/L	100	10/18/23 13:54	
EPA 6020B	Arsenic	17.4	ug/L	1.0	10/18/23 03:03	
EPA 6020B	Cobalt	12.7	ug/L	1.0	10/18/23 03:03	
EPA 6020B	Lead	0.13J	ug/L	1.0	10/18/23 03:03	
EPA 6020B	Lithium	0.70J	ug/L	2.5	10/18/23 03:03	
EPA 6020B	Molybdenum	4.2	ug/L	1.0	10/18/23 03:03	
SM 2540C-2015	Total Dissolved Solids	234	mg/L	25.0	10/17/23 18:33	
EPA 9056A	Chloride	55.0	mg/L	1.0	10/14/23 13:14	
EPA 9056A	Fluoride	0.14	mg/L	0.10	10/14/23 13:14	
92692691004	**101223NMW28**					
EPA 6010D	Barium	103	ug/L	5.0	10/18/23 13:57	
EPA 6010D	Boron	174	ug/L	50.0	10/18/23 13:57	
EPA 6010D	Calcium	73900	ug/L	100	10/18/23 13:57	
EPA 6020B	Arsenic	202	ug/L	2.0	10/18/23 14:19	
EPA 6020B	Cobalt	1.2	ug/L	1.0	10/18/23 03:08	
EPA 6020B	Lithium	12.8	ug/L	2.5	10/18/23 03:08	
EPA 6020B	Molybdenum	20.3	ug/L	1.0	10/18/23 03:08	
SM 2540C-2015	Total Dissolved Solids	364	mg/L	25.0	10/17/23 18:33	
EPA 9056A	Chloride	25.2	mg/L	1.0	10/14/23 13:27	
EPA 9056A	Fluoride	0.36	mg/L	0.10	10/14/23 13:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692691004	**101223NMW28**					
EPA 9056A	Sulfate	21.4	mg/L	1.0	10/14/23 13:27	
92692691005	**101223EBLAP**					
EPA 6020B	Molybdenum	0.24J	ug/L	1.0	10/18/23 03:13	
92692691006	**101223NMW20**					
EPA 6010D	Barium	38.5	ug/L	5.0	10/18/23 14:03	
EPA 6010D	Boron	417	ug/L	50.0	10/18/23 14:03	
EPA 6010D	Calcium	29100	ug/L	100	10/18/23 14:03	
EPA 6020B	Arsenic	0.26J	ug/L	1.0	10/18/23 03:18	
EPA 6020B	Cobalt	62.2	ug/L	1.0	10/18/23 03:18	
EPA 6020B	Lithium	2.3J	ug/L	2.5	10/18/23 03:18	
EPA 6020B	Thallium	0.13J	ug/L	0.20	10/18/23 03:18	
SM 2540C-2015	Total Dissolved Solids	269	mg/L	25.0	10/17/23 18:33	
EPA 9056A	Chloride	19.6	mg/L	1.0	10/14/23 14:21	
EPA 9056A	Fluoride	0.053J	mg/L	0.10	10/14/23 14:21	
EPA 9056A	Sulfate	127	mg/L	3.0	10/14/23 23:47	
92692691007	**101223NMW21R**					
EPA 6010D	Barium	103	ug/L	5.0	10/18/23 14:06	
EPA 6010D	Boron	765	ug/L	50.0	10/18/23 14:06	
EPA 6010D	Calcium	64100	ug/L	100	10/18/23 14:06	
EPA 6020B	Arsenic	0.59J	ug/L	1.0	10/18/23 03:23	
EPA 6020B	Cobalt	6.3	ug/L	1.0	10/18/23 03:23	
EPA 6020B	Lithium	0.86J	ug/L	2.5	10/18/23 03:23	
EPA 6020B	Molybdenum	0.59J	ug/L	1.0	10/18/23 03:23	
EPA 6020B	Thallium	0.13J	ug/L	0.20	10/18/23 03:23	
SM 2540C-2015	Total Dissolved Solids	433	mg/L	25.0	10/17/23 18:36	
EPA 9056A	Chloride	48.2	mg/L	1.0	10/14/23 14:35	
EPA 9056A	Fluoride	0.10	mg/L	0.10	10/14/23 14:35	
EPA 9056A	Sulfate	93.1	mg/L	2.0	10/15/23 00:02	
92692691008	**101223NMW33R**					
EPA 6010D	Barium	208	ug/L	5.0	10/18/23 14:21	
EPA 6010D	Boron	404	ug/L	50.0	10/18/23 14:21	
EPA 6010D	Calcium	32200	ug/L	100	10/18/23 14:21	
EPA 6020B	Arsenic	11.0	ug/L	1.0	10/18/23 03:28	
EPA 6020B	Cobalt	1.1	ug/L	1.0	10/18/23 03:28	
EPA 6020B	Lead	0.18J	ug/L	1.0	10/18/23 03:28	
EPA 6020B	Molybdenum	1.7	ug/L	1.0	10/18/23 03:28	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	25.0	10/17/23 18:36	
EPA 9056A	Chloride	30.7	mg/L	1.0	10/14/23 14:48	
EPA 9056A	Fluoride	0.12	mg/L	0.10	10/14/23 14:48	
92692691009	**101223NMW22R**					
EPA 6010D	Barium	124	ug/L	5.0	10/18/23 14:29	
EPA 6010D	Boron	256	ug/L	50.0	10/18/23 14:29	
EPA 6010D	Calcium	21500	ug/L	100	10/18/23 14:29	
EPA 6020B	Arsenic	0.38J	ug/L	1.0	10/18/23 06:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692691009	**101223NMW22R**					
EPA 6020B	Cobalt	13.1	ug/L	1.0	10/18/23 06:56	
EPA 6020B	Lithium	2.3J	ug/L	2.5	10/18/23 06:56	
EPA 6020B	Molybdenum	0.16J	ug/L	1.0	10/18/23 06:56	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	25.0	10/17/23 18:36	
EPA 9056A	Chloride	21.8	mg/L	1.0	10/14/23 15:02	
EPA 9056A	Sulfate	30.0	mg/L	1.0	10/14/23 15:02	
92692691010	**101223NMW23R**					
EPA 6010D	Barium	140	ug/L	5.0	10/19/23 17:23	
EPA 6010D	Calcium	56900	ug/L	100	10/19/23 17:23	
EPA 6020B	Arsenic	8.6	ug/L	1.0	10/18/23 21:02	
EPA 6020B	Cobalt	1.8	ug/L	1.0	10/18/23 21:02	
EPA 6020B	Lead	0.15J	ug/L	1.0	10/18/23 21:02	
EPA 6020B	Lithium	0.72J	ug/L	2.5	10/18/23 21:02	
EPA 6020B	Molybdenum	3.3	ug/L	1.0	10/18/23 21:02	
SM 2540C-2015	Total Dissolved Solids	306	mg/L	25.0	10/18/23 15:03	
EPA 9056A	Chloride	3.0	mg/L	1.0	10/16/23 18:50	
EPA 9056A	Fluoride	0.34	mg/L	0.10	10/16/23 18:50	
EPA 9056A	Sulfate	1.1	mg/L	1.0	10/16/23 18:50	
92692691011	**101223NMW32SR**					
EPA 6010D	Barium	167	ug/L	5.0	10/19/23 17:26	
EPA 6010D	Calcium	30800	ug/L	100	10/19/23 17:26	
EPA 6020B	Arsenic	7.7	ug/L	1.0	10/18/23 21:07	
EPA 6020B	Cobalt	3.3	ug/L	1.0	10/18/23 21:07	
EPA 6020B	Lead	0.49J	ug/L	1.0	10/18/23 21:07	
EPA 6020B	Lithium	3.3	ug/L	2.5	10/18/23 21:07	
EPA 6020B	Molybdenum	1.9	ug/L	1.0	10/18/23 21:07	
SM 2540C-2015	Total Dissolved Solids	280	mg/L	25.0	10/18/23 15:07	
EPA 9056A	Chloride	18.1	mg/L	1.0	10/16/23 19:35	
EPA 9056A	Fluoride	0.20	mg/L	0.10	10/16/23 19:35	
EPA 9056A	Sulfate	64.0	mg/L	1.0	10/16/23 19:35	
92692691012	**101323NMW25**					
EPA 6010D	Barium	54.8	ug/L	5.0	10/19/23 17:40	
EPA 6010D	Calcium	15300	ug/L	100	10/19/23 17:40	
EPA 6020B	Arsenic	18.2	ug/L	1.0	10/18/23 21:12	
EPA 6020B	Cobalt	2.4	ug/L	1.0	10/18/23 21:12	
EPA 6020B	Lead	0.21J	ug/L	1.0	10/18/23 21:12	
EPA 6020B	Lithium	2.6	ug/L	2.5	10/18/23 21:12	
EPA 6020B	Molybdenum	2.2	ug/L	1.0	10/18/23 21:12	
SM 2540C-2015	Total Dissolved Solids	133	mg/L	25.0	10/18/23 15:09	
EPA 9056A	Chloride	6.1	mg/L	1.0	10/16/23 19:50	
EPA 9056A	Fluoride	0.22	mg/L	0.10	10/16/23 19:50	
EPA 9056A	Sulfate	7.8	mg/L	1.0	10/16/23 19:50	
92692691013	**101323NMW26**					
EPA 6010D	Barium	67.9	ug/L	5.0	10/19/23 17:43	
EPA 6010D	Calcium	11900	ug/L	100	10/19/23 17:43	

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SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692691013	**101323NMW26**					
EPA 6020B	Arsenic	0.62J	ug/L	1.0	10/18/23 21:17	
EPA 6020B	Cobalt	7.9	ug/L	1.0	10/18/23 21:17	
EPA 6020B	Lead	0.081J	ug/L	1.0	10/18/23 21:17	
EPA 6020B	Lithium	3.8	ug/L	2.5	10/18/23 21:17	
EPA 6020B	Thallium	0.054J	ug/L	0.20	10/18/23 21:17	
SM 2540C-2015	Total Dissolved Solids	134	mg/L	25.0	10/18/23 15:09	
EPA 9056A	Chloride	10.6	mg/L	1.0	10/16/23 20:04	
EPA 9056A	Fluoride	0.16	mg/L	0.10	10/16/23 20:04	
EPA 9056A	Sulfate	8.8	mg/L	1.0	10/16/23 20:04	
92692691014	**101323NMW27**					
EPA 6010D	Barium	136	ug/L	5.0	10/19/23 17:46	
EPA 6010D	Boron	734	ug/L	50.0	10/19/23 17:46	
EPA 6010D	Cadmium	0.49J	ug/L	1.0	10/19/23 17:46	
EPA 6010D	Calcium	34900	ug/L	100	10/19/23 17:46	
EPA 6020B	Arsenic	0.21J	ug/L	1.0	10/18/23 21:22	
EPA 6020B	Cobalt	3.3	ug/L	1.0	10/18/23 21:22	
EPA 6020B	Lithium	1.8J	ug/L	2.5	10/18/23 21:22	
EPA 6020B	Thallium	0.22	ug/L	0.20	10/18/23 21:22	
EPA 7470A	Mercury	0.15J	ug/L	0.20	10/18/23 11:38	
SM 2540C-2015	Total Dissolved Solids	385	mg/L	25.0	10/18/23 15:09	
EPA 9056A	Chloride	99.0	mg/L	1.0	10/16/23 20:19	
EPA 9056A	Fluoride	0.075J	mg/L	0.10	10/16/23 20:19	
EPA 9056A	Sulfate	54.5	mg/L	1.0	10/16/23 20:19	
92692691015	**101323NMW34**					
EPA 6010D	Barium	223	ug/L	5.0	10/19/23 17:49	
EPA 6010D	Boron	633	ug/L	50.0	10/19/23 17:49	
EPA 6010D	Calcium	40000	ug/L	100	10/19/23 17:49	
EPA 6020B	Arsenic	10.1	ug/L	1.0	10/18/23 21:27	
EPA 6020B	Cobalt	2.5	ug/L	1.0	10/18/23 21:27	
EPA 6020B	Molybdenum	2.0	ug/L	1.0	10/18/23 21:27	
SM 2540C-2015	Total Dissolved Solids	315	mg/L	25.0	10/18/23 22:34	
EPA 9056A	Chloride	64.7	mg/L	1.0	10/16/23 20:34	
EPA 9056A	Fluoride	0.13	mg/L	0.10	10/16/23 20:34	

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PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Method: **EPA 6010D**
Description: 6010 MET ICP
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Method: **EPA 6020B**
Description: 6020 MET ICPMS
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Method: **EPA 7470A**
Description: 7470 Mercury
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
16 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:

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PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Method: **SM 2540C-2015**
Description: 2540C Total Dissolved Solids
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
15 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: 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

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PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Method: **EPA 9056A**
Description: 9056 IC anions 28 Days
Client: Dominion Energy_VA
Date: December 07, 2023

General Information:
16 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.

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101023NB50 **Lab ID: 92692691001** Collected: 10/10/23 12:45 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	**88.0**	ug/L	5.0	3.5	1	10/12/23 10:35	10/12/23 23:49	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/12/23 10:35	10/12/23 23:49	7440-41-7	
Boron	**383**	ug/L	50.0	32.4	1	10/12/23 10:35	10/13/23 15:41	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/12/23 10:35	10/12/23 23:49	7440-43-9	
Calcium	**74100**	ug/L	100	94.2	1	10/12/23 10:35	10/12/23 23:49	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/12/23 10:35	10/12/23 23:49	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/12/23 10:35	10/12/23 23:49	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	10/12/23 10:40	10/13/23 17:18	7440-36-0	
Arsenic	**0.88J**	ug/L	1.0	0.087	1	10/12/23 10:40	10/13/23 17:18	7440-38-2	
Cobalt	**0.87J**	ug/L	1.0	0.050	1	10/12/23 10:40	10/13/23 17:18	7440-48-4	
Lead	**0.14J**	ug/L	1.0	0.077	1	10/12/23 10:40	10/13/23 17:18	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/12/23 10:40	10/13/23 17:18	7439-93-2	
Molybdenum	**0.53J**	ug/L	1.0	0.13	1	10/12/23 10:40	10/13/23 17:18	7439-98-7	
Thallium	**0.15J**	ug/L	0.20	0.050	1	10/12/23 10:40	10/13/23 17:18	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	10/13/23 15:08	10/14/23 11:55	7439-97-6	
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**70.9**	mg/L	1.0	0.60	1		10/14/23 02:49	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		10/14/23 02:49	16984-48-8	
Sulfate	**64.7**	mg/L	1.0	0.50	1		10/14/23 02:49	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW36S **Lab ID: 92692691002** Collected: 10/12/23 09:30 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	**367**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:51	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:51	7440-41-7	
Boron	**173**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:51	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:51	7440-43-9	
Calcium	**22200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:51	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:51	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:51	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	10/16/23 12:25	10/18/23 02:48	7440-36-0	
Arsenic	**17.7**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 02:48	7440-38-2	
Cobalt	**13.0**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 02:48	7440-48-4	
Lead	**0.14J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 02:48	7439-92-1	
Lithium	**0.76J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 02:48	7439-93-2	
Molybdenum	**4.3**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 02:48	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 02:48	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 10:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**237**	mg/L	25.0	25.0	1		10/17/23 18:33		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**55.0**	mg/L	1.0	0.60	1		10/14/23 13:01	16887-00-6	
Fluoride	**0.089J**	mg/L	0.10	0.050	1		10/14/23 13:01	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 13:01	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223FDLAP **Lab ID: 92692691003** Collected: 10/12/23 09:40 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	**381**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:54	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:54	7440-41-7	
Boron	**180**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:54	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:54	7440-43-9	
Calcium	**23200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:54	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:54	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:54	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 03:03	7440-36-0	
Arsenic	**17.4**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 03:03	7440-38-2	
Cobalt	**12.7**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:03	7440-48-4	
Lead	**0.13J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:03	7439-92-1	
Lithium	**0.70J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:03	7439-93-2	
Molybdenum	**4.2**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:03	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 03:03	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 10:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**234**	mg/L	25.0	25.0	1		10/17/23 18:33		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**55.0**	mg/L	1.0	0.60	1		10/14/23 13:14	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		10/14/23 13:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 13:14	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW28 **Lab ID: 92692691004** Collected: 10/12/23 09:15 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	**103**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 13:57	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 13:57	7440-41-7	
Boron	**174**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 13:57	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 13:57	7440-43-9	
Calcium	**73900**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 13:57	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 13:57	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 13:57	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 03:08	7440-36-0	
Arsenic	**202**	ug/L	2.0	0.17	2	10/16/23 12:25	10/18/23 14:19	7440-38-2	
Cobalt	**1.2**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:08	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:08	7439-92-1	
Lithium	**12.8**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:08	7439-93-2	
Molybdenum	**20.3**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:08	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 03:08	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 11:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**364**	mg/L	25.0	25.0	1		10/17/23 18:33		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**25.2**	mg/L	1.0	0.60	1		10/14/23 13:27	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		10/14/23 13:27	16984-48-8	
Sulfate	**21.4**	mg/L	1.0	0.50	1		10/14/23 13:27	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223EBLAP **Lab ID: 92692691005** Collected: 10/12/23 10:25 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	ND	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:00	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:00	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:00	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:00	7440-43-9	
Calcium	ND	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:00	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:00	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:00	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	10/16/23 12:25	10/18/23 03:13	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 03:13	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:13	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:13	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:13	7439-93-2	
Molybdenum	**0.24J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:13	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 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	10/17/23 12:27	10/18/23 11:02	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		10/17/23 18:33		
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 14:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 14:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 14:08	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW20 **Lab ID: 92692691006** 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	**38.5**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:03	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:03	7440-41-7	
Boron	**417**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:03	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:03	7440-43-9	
Calcium	**29100**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:03	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:03	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:03	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 03:18	7440-36-0	
Arsenic	**0.26J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 03:18	7440-38-2	
Cobalt	**62.2**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:18	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:18	7439-92-1	
Lithium	**2.3J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:18	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:18	7439-98-7	
Thallium	**0.13J**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 03:18	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 11:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**269**	mg/L	25.0	25.0	1		10/17/23 18:33		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**19.6**	mg/L	1.0	0.60	1		10/14/23 14:21	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		10/14/23 14:21	16984-48-8	
Sulfate	**127**	mg/L	3.0	1.5	3		10/14/23 23:47	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW21R **Lab ID: 92692691007** Collected: 10/12/23 11:15 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	**103**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:06	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:06	7440-41-7	
Boron	**765**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:06	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:06	7440-43-9	
Calcium	**64100**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:06	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:06	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:06	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	10/16/23 12:25	10/18/23 03:23	7440-36-0	
Arsenic	**0.59J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 03:23	7440-38-2	
Cobalt	**6.3**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:23	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:23	7439-92-1	
Lithium	**0.86J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:23	7439-93-2	
Molybdenum	**0.59J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:23	7439-98-7	
Thallium	**0.13J**	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 03:23	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 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**433**	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	**48.2**	mg/L	1.0	0.60	1		10/14/23 14:35	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		10/14/23 14:35	16984-48-8	
Sulfate	**93.1**	mg/L	2.0	1.0	2		10/15/23 00:02	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW33R **Lab ID: 92692691008** 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	**208**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:21	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:21	7440-41-7	
Boron	**404**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:21	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:21	7440-43-9	
Calcium	**32200**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:21	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:21	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:21	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	10/16/23 12:25	10/18/23 03:28	7440-36-0	
Arsenic	**11.0**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 03:28	7440-38-2	
Cobalt	**1.1**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 03:28	7440-48-4	
Lead	**0.18J**	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 03:28	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 03:28	7439-93-2	
Molybdenum	**1.7**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 03:28	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 03:28	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 11:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**248**	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	**30.7**	mg/L	1.0	0.60	1		10/14/23 14:48	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		10/14/23 14:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/14/23 14:48	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW22R **Lab ID: 92692691009** Collected: 10/12/23 13:30 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	**124**	ug/L	5.0	3.5	1	10/16/23 12:05	10/18/23 14:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/16/23 12:05	10/18/23 14:29	7440-41-7	
Boron	**256**	ug/L	50.0	32.4	1	10/16/23 12:05	10/18/23 14:29	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/16/23 12:05	10/18/23 14:29	7440-43-9	
Calcium	**21500**	ug/L	100	94.2	1	10/16/23 12:05	10/18/23 14:29	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/16/23 12:05	10/18/23 14:29	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/16/23 12:05	10/18/23 14:29	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 06:56	7440-36-0	
Arsenic	**0.38J**	ug/L	1.0	0.087	1	10/16/23 12:25	10/18/23 06:56	7440-38-2	
Cobalt	**13.1**	ug/L	1.0	0.050	1	10/16/23 12:25	10/18/23 06:56	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/16/23 12:25	10/18/23 06:56	7439-92-1	
Lithium	**2.3J**	ug/L	2.5	0.50	1	10/16/23 12:25	10/18/23 06:56	7439-93-2	
Molybdenum	**0.16J**	ug/L	1.0	0.13	1	10/16/23 12:25	10/18/23 06:56	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/16/23 12:25	10/18/23 06:56	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 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**180**	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	**21.8**	mg/L	1.0	0.60	1		10/14/23 15:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/14/23 15:02	16984-48-8	
Sulfate	**30.0**	mg/L	1.0	0.50	1		10/14/23 15:02	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW23R **Lab ID: 92692691010** Collected: 10/12/23 17:05 Received: 10/14/23 10:55 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	10/18/23 11:35	10/19/23 17:23	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:23	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:23	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:23	7440-43-9	
Calcium	**56900**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:23	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:23	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:23	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	10/17/23 12:30	10/18/23 21:02	7440-36-0	
Arsenic	**8.6**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:02	7440-38-2	
Cobalt	**1.8**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:02	7440-48-4	
Lead	**0.15J**	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:02	7439-92-1	
Lithium	**0.72J**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:02	7439-93-2	
Molybdenum	**3.3**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:02	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:02	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 11:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**306**	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	**3.0**	mg/L	1.0	0.60	1		10/16/23 18:50	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		10/16/23 18:50	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		10/16/23 18:50	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101223NMW32SR **Lab ID: 92692691011** Collected: 10/12/23 16:45 Received: 10/14/23 10:55 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	10/18/23 11:35	10/19/23 17:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:26	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:26	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:26	7440-43-9	
Calcium	**30800**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:26	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:26	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:26	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	10/17/23 12:30	10/18/23 21:07	7440-36-0	
Arsenic	**7.7**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:07	7440-38-2	
Cobalt	**3.3**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:07	7440-48-4	
Lead	**0.49J**	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:07	7439-92-1	
Lithium	**3.3**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:07	7439-93-2	
Molybdenum	**1.9**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:07	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:07	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 11:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**280**	mg/L	25.0	25.0	1		10/18/23 15:07		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**18.1**	mg/L	1.0	0.60	1		10/16/23 19:35	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		10/16/23 19:35	16984-48-8	
Sulfate	**64.0**	mg/L	1.0	0.50	1		10/16/23 19:35	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101323NMW25 **Lab ID: 92692691012** Collected: 10/13/23 11:45 Received: 10/14/23 10:55 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	**54.8**	ug/L	5.0	3.5	1	10/18/23 11:35	10/19/23 17:40	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:40	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:40	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:40	7440-43-9	
Calcium	**15300**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:40	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:40	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:40	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	10/17/23 12:30	10/18/23 21:12	7440-36-0	
Arsenic	**18.2**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:12	7440-38-2	
Cobalt	**2.4**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:12	7440-48-4	
Lead	**0.21J**	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:12	7439-92-1	
Lithium	**2.6**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:12	7439-93-2	
Molybdenum	**2.2**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:12	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:12	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 11:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**133**	mg/L	25.0	25.0	1		10/18/23 15:09		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		10/16/23 19:50	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		10/16/23 19:50	16984-48-8	
Sulfate	**7.8**	mg/L	1.0	0.50	1		10/16/23 19:50	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101323NMW26 **Lab ID: 92692691013** Collected: 10/13/23 10:55 Received: 10/14/23 10:55 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	**67.9**	ug/L	5.0	3.5	1	10/18/23 11:35	10/19/23 17:43	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:43	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:43	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:43	7440-43-9	
Calcium	**11900**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:43	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:43	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:43	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	10/17/23 12:30	10/18/23 21:17	7440-36-0	
Arsenic	**0.62J**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:17	7440-38-2	
Cobalt	**7.9**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:17	7440-48-4	
Lead	**0.081J**	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:17	7439-92-1	
Lithium	**3.8**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:17	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:17	7439-98-7	
Thallium	**0.054J**	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:17	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 11:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**134**	mg/L	25.0	25.0	1		10/18/23 15:09		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**10.6**	mg/L	1.0	0.60	1		10/16/23 20:04	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		10/16/23 20:04	16984-48-8	
Sulfate	**8.8**	mg/L	1.0	0.50	1		10/16/23 20:04	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101323NMW27 **Lab ID: 92692691014** Collected: 10/13/23 09:20 Received: 10/14/23 10:55 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	10/18/23 11:35	10/19/23 17:46	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:46	7440-41-7	
Boron	**734**	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:46	7440-42-8	
Cadmium	**0.49J**	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:46	7440-43-9	
Calcium	**34900**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:46	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:46	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:46	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	10/17/23 12:30	10/18/23 21:22	7440-36-0	
Arsenic	**0.21J**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:22	7440-38-2	
Cobalt	**3.3**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:22	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:22	7439-92-1	
Lithium	**1.8J**	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:22	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:22	7439-98-7	
Thallium	**0.22**	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	**0.15J**	ug/L	0.20	0.12	1	10/17/23 12:27	10/18/23 11:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**385**	mg/L	25.0	25.0	1		10/18/23 15:09		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**99.0**	mg/L	1.0	0.60	1		10/16/23 20:19	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		10/16/23 20:19	16984-48-8	
Sulfate	**54.5**	mg/L	1.0	0.50	1		10/16/23 20:19	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101323NMW34 **Lab ID: 92692691015** Collected: 10/13/23 09:50 Received: 10/14/23 10:55 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	**223**	ug/L	5.0	3.5	1	10/18/23 11:35	10/19/23 17:49	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:49	7440-41-7	
Boron	**633**	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:49	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:49	7440-43-9	
Calcium	**40000**	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:49	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:49	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:49	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	10/17/23 12:30	10/18/23 21:27	7440-36-0	
Arsenic	**10.1**	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:27	7440-38-2	
Cobalt	**2.5**	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:27	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:27	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:27	7439-93-2	
Molybdenum	**2.0**	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:27	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:27	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	10/17/23 12:27	10/18/23 11:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**315**	mg/L	25.0	25.0	1		10/18/23 22:34		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	**64.7**	mg/L	1.0	0.60	1		10/16/23 20:34	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		10/16/23 20:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/16/23 20:34	14808-79-8	

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ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Sample: 101323FBLAP **Lab ID: 92692691016** Collected: 10/13/23 10:20 Received: 10/14/23 10:55 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	10/18/23 11:35	10/19/23 17:52	7440-39-3	
Beryllium	ND	ug/L	1.0	0.70	1	10/18/23 11:35	10/19/23 17:52	7440-41-7	
Boron	ND	ug/L	50.0	32.4	1	10/18/23 11:35	10/19/23 17:52	7440-42-8	
Cadmium	ND	ug/L	1.0	0.40	1	10/18/23 11:35	10/19/23 17:52	7440-43-9	
Calcium	ND	ug/L	100	94.2	1	10/18/23 11:35	10/19/23 17:52	7440-70-2	
Chromium	ND	ug/L	5.0	3.7	1	10/18/23 11:35	10/19/23 17:52	7440-47-3	
Selenium	ND	ug/L	10.0	4.7	1	10/18/23 11:35	10/19/23 17:52	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	10/17/23 12:30	10/18/23 21:32	7440-36-0	
Arsenic	ND	ug/L	1.0	0.087	1	10/17/23 12:30	10/18/23 21:32	7440-38-2	
Cobalt	ND	ug/L	1.0	0.050	1	10/17/23 12:30	10/18/23 21:32	7440-48-4	
Lead	ND	ug/L	1.0	0.077	1	10/17/23 12:30	10/18/23 21:32	7439-92-1	
Lithium	ND	ug/L	2.5	0.50	1	10/17/23 12:30	10/18/23 21:32	7439-93-2	
Molybdenum	ND	ug/L	1.0	0.13	1	10/17/23 12:30	10/18/23 21:32	7439-98-7	
Thallium	ND	ug/L	0.20	0.050	1	10/17/23 12:30	10/18/23 21:32	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 11:42	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 22:34		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		10/16/23 20:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/16/23 20:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/16/23 20:49	14808-79-8	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806184
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691001

METHOD BLANK: 4174809 Matrix: Water
Associated Lab Samples: 92692691001

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806813
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691002

METHOD BLANK: 4177931 Matrix: Water
Associated Lab Samples: 92692691002

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806818
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009, 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

METHOD BLANK: 4177941 Matrix: Water
Associated Lab Samples: 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009, 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/18/23 10:45	

LABORATORY CONTROL SAMPLE: 4177942

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: 4177943 4177944

Parameter	Units	92692691003 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	2.6	104	105	75-125	1	25	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 805805
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691001

METHOD BLANK: 4172734 Matrix: Water
Associated Lab Samples: 92692691001

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806534
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008

METHOD BLANK: 4176296 Matrix: Water
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806536
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691009

METHOD BLANK: 4176306 Matrix: Water
Associated Lab Samples: 92692691009

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 807195
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

METHOD BLANK: 4179659 Matrix: Water
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 805806
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92692691001

METHOD BLANK: 4172738 Matrix: Water
Associated Lab Samples: 92692691001

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806539
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008

METHOD BLANK: 4176319 Matrix: Water
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806541
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691009

METHOD BLANK: 4176327 Matrix: Water
Associated Lab Samples: 92692691009

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 806860
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

METHOD BLANK: 4178034 Matrix: Water
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009

METHOD BLANK: 4178151 Matrix: Water
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014

METHOD BLANK: 4179631 Matrix: Water
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014

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	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

QC Batch: 807425
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: 92692691015, 92692691016

METHOD BLANK: 4181098 Matrix: Water
Associated Lab Samples: 92692691015, 92692691016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/18/23 22:34	

LABORATORY CONTROL SAMPLE: 4181099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	258	103	90-110	

SAMPLE DUPLICATE: 4181100

Parameter	Units	92692691015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	315	320	2	25	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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: 92692691001

METHOD BLANK: 4174352 Matrix: Water
Associated Lab Samples: 92692691001

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009

METHOD BLANK: 4175817 Matrix: Water
Associated Lab Samples: 92692691002, 92692691003, 92692691004, 92692691005, 92692691006, 92692691007, 92692691008, 92692691009

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	

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QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

METHOD BLANK: 4177061 Matrix: Water
Associated Lab Samples: 92692691010, 92692691011, 92692691012, 92692691013, 92692691014, 92692691015, 92692691016

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	

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(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692691001	**101023NB50**	EPA 3010A	805805	EPA 6010D	805970
92692691002	**101223NMW36S**	EPA 3010A	806534	EPA 6010D	806639
92692691003	**101223FDLAP**	EPA 3010A	806534	EPA 6010D	806639
92692691004	**101223NMW28**	EPA 3010A	806534	EPA 6010D	806639
92692691005	**101223EBLAP**	EPA 3010A	806534	EPA 6010D	806639
92692691006	**101223NMW20**	EPA 3010A	806534	EPA 6010D	806639
92692691007	**101223NMW21R**	EPA 3010A	806534	EPA 6010D	806639
92692691008	**101223NMW33R**	EPA 3010A	806534	EPA 6010D	806639
92692691009	**101223NMW22R**	EPA 3010A	806536	EPA 6010D	806642
92692691010	**101223NMW23R**	EPA 3010A	807195	EPA 6010D	807314
92692691011	**101223NMW32SR**	EPA 3010A	807195	EPA 6010D	807314
92692691012	**101323NMW25**	EPA 3010A	807195	EPA 6010D	807314
92692691013	**101323NMW26**	EPA 3010A	807195	EPA 6010D	807314
92692691014	**101323NMW27**	EPA 3010A	807195	EPA 6010D	807314
92692691015	**101323NMW34**	EPA 3010A	807195	EPA 6010D	807314
92692691016	**101323FBLAP**	EPA 3010A	807195	EPA 6010D	807314
92692691001	**101023NB50**	EPA 3010A	805806	EPA 6020B	805976
92692691002	**101223NMW36S**	EPA 3010A	806539	EPA 6020B	806644
92692691003	**101223FDLAP**	EPA 3010A	806539	EPA 6020B	806644
92692691004	**101223NMW28**	EPA 3010A	806539	EPA 6020B	806644
92692691005	**101223EBLAP**	EPA 3010A	806539	EPA 6020B	806644
92692691006	**101223NMW20**	EPA 3010A	806539	EPA 6020B	806644
92692691007	**101223NMW21R**	EPA 3010A	806539	EPA 6020B	806644
92692691008	**101223NMW33R**	EPA 3010A	806539	EPA 6020B	806644
92692691009	**101223NMW22R**	EPA 3010A	806541	EPA 6020B	806650
92692691010	**101223NMW23R**	EPA 3010A	806860	EPA 6020B	806961
92692691011	**101223NMW32SR**	EPA 3010A	806860	EPA 6020B	806961
92692691012	**101323NMW25**	EPA 3010A	806860	EPA 6020B	806961
92692691013	**101323NMW26**	EPA 3010A	806860	EPA 6020B	806961
92692691014	**101323NMW27**	EPA 3010A	806860	EPA 6020B	806961
92692691015	**101323NMW34**	EPA 3010A	806860	EPA 6020B	806961
92692691016	**101323FBLAP**	EPA 3010A	806860	EPA 6020B	806961
92692691001	**101023NB50**	EPA 7470A	806184	EPA 7470A	806260
92692691002	**101223NMW36S**	EPA 7470A	806813	EPA 7470A	806952
92692691003	**101223FDLAP**	EPA 7470A	806818	EPA 7470A	806953
92692691004	**101223NMW28**	EPA 7470A	806818	EPA 7470A	806953
92692691005	**101223EBLAP**	EPA 7470A	806818	EPA 7470A	806953
92692691006	**101223NMW20**	EPA 7470A	806818	EPA 7470A	806953
92692691007	**101223NMW21R**	EPA 7470A	806818	EPA 7470A	806953
92692691008	**101223NMW33R**	EPA 7470A	806818	EPA 7470A	806953
92692691009	**101223NMW22R**	EPA 7470A	806818	EPA 7470A	806953
92692691010	**101223NMW23R**	EPA 7470A	806818	EPA 7470A	806953
92692691011	**101223NMW32SR**	EPA 7470A	806818	EPA 7470A	806953
92692691012	**101323NMW25**	EPA 7470A	806818	EPA 7470A	806953

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupC
Pace Project No.: 92692691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692691013	**101323NMW26**	EPA 7470A	806818	EPA 7470A	806953
92692691014	**101323NMW27**	EPA 7470A	806818	EPA 7470A	806953
92692691015	**101323NMW34**	EPA 7470A	806818	EPA 7470A	806953
92692691016	**101323FBLAP**	EPA 7470A	806818	EPA 7470A	806953
92692691002	**101223NMW36S**	SM 2540C-2015	806887		
92692691003	**101223FDLAP**	SM 2540C-2015	806887		
92692691004	**101223NMW28**	SM 2540C-2015	806887		
92692691005	**101223EBLAP**	SM 2540C-2015	806887		
92692691006	**101223NMW20**	SM 2540C-2015	806887		
92692691007	**101223NMW21R**	SM 2540C-2015	806887		
92692691008	**101223NMW33R**	SM 2540C-2015	806887		
92692691009	**101223NMW22R**	SM 2540C-2015	806887		
92692691010	**101223NMW23R**	SM 2540C-2015	807185		
92692691011	**101223NMW32SR**	SM 2540C-2015	807185		
92692691012	**101323NMW25**	SM 2540C-2015	807185		
92692691013	**101323NMW26**	SM 2540C-2015	807185		
92692691014	**101323NMW27**	SM 2540C-2015	807185		
92692691015	**101323NMW34**	SM 2540C-2015	807425		
92692691016	**101323FBLAP**	SM 2540C-2015	807425		
92692691001	**101023NB50**	EPA 9056A	806075		
92692691002	**101223NMW36S**	EPA 9056A	806350		
92692691003	**101223FDLAP**	EPA 9056A	806350		
92692691004	**101223NMW28**	EPA 9056A	806350		
92692691005	**101223EBLAP**	EPA 9056A	806350		
92692691006	**101223NMW20**	EPA 9056A	806350		
92692691007	**101223NMW21R**	EPA 9056A	806350		
92692691008	**101223NMW33R**	EPA 9056A	806350		
92692691009	**101223NMW22R**	EPA 9056A	806350		
92692691010	**101223NMW23R**	EPA 9056A	806666		
92692691011	**101223NMW32SR**	EPA 9056A	806666		
92692691012	**101323NMW25**	EPA 9056A	806666		
92692691013	**101323NMW26**	EPA 9056A	806666		
92692691014	**101323NMW27**	EPA 9056A	806666		
92692691015	**101323NMW34**	EPA 9056A	806666		
92692691016	**101323FBLAP**	EPA 9056A	806666		

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WO# : 92692691

92692691

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accur

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

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:	[redacted]	Purchase Order #:		Pace Quote:	
Phone:	(804) 934-[redacted]784 Fax	Project Name:	CPS (CPS_2SA2023_LAP_C)	Pace Project Manager:	[redacted]
Requested Due Date:	Standard TAT	Project #:	31406066.007	Pace Profile #:	13861

Regulatory Agency

State / Location: VA

Requested Analysis Filtered (Y/N)

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 CI,F,NO3,SO4	RADS 9315/9320	Total 6010,6020,7470 Metals	Total Dissolved Solids (TDS)	Residual Chlorine (Y/N)	
																		Y/N	N	N	N	N		
1	10102314350	WT	G	10/10/23	1245	--	--		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: 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	PACE	10/10/23	KHC				
All samples preserved on ice	PACE	10/10/23	1600	AKL	10/11/23	1115	1.9	Y	N	Y
							1.5			
							2.3			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Tuggi

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/10/23

COC ID: CPS_2SA2023_CCR_GroupC_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 ☒ Pace ☐ Client ☐ Other:

Carrier Tracking Number:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Date/Initials Person Examining Contents: 10/11/22

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

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 43T082 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: 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 Analytical	Document Name: Bottle Identification Form (BIF)	Document Issued: November 15, 2021 Page 1 of 1
	Document No.: F-CAR-CS-043-Rev.01	Issuing Authority: Pace Carolinas Quality Office

***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 #

Dominion VA

Matrix	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)	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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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			1			1 ✓																			2 ✓	BP1N			
	2																													
	3																													
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	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

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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 Builders Parkway	Copy To: Catherine Pezzaniti	Company Name:	
Suite 503, Richmond, VA 23225		Address:	Regulatory Agency
Email:	Purchase Order #:	Pace Quote:	
Phone: (804) 934-1784 Fax:	Project Name: CPS_CPS_2SA2023_CAP_C	Pace Project Manager:	State / Location
Requested Due Date: Standard TAT	Project #: 1206060.00	Pace Profile #: 13861	VA

ITEM #	SAMPLE ID (One Character per box (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (Data in Matrix Code column)	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	Y/N	Analyses Test: 9056 Cl/SO4	6020 B 9315 9320	6020 B 9315 9320 Total/dissolved	6020 Ca/Mg/Na/K/Si (Total)	Residual Chlorine (Y/N)	
1	101223NMW36S	WT	G	10/12/23	0930				5	X		X							X	X	X	X	N	
2	101223FDLAP	WT	G	10/12/23	0940				5	X		X							X	X	X	X	N	
3	101223NMW28	WT	G	10/12/23	0915				5	X		X							X	X	X	X	N	
4	~~101223NMW14~~	WT	G	10/12/23	0945				15	X		X							X	X	X	X	N	~~Y/N/A/CSD exceeded at~~ ~~MW-14~~ TT 10/12/23
5	101223EBLAP	WT	G	10/12/23	1025				5	X		X							X	X	X	X	N	TT 10/12/23
6	101223NMW20	WT	G	10/12/23	1130				5	X		X							X	X	X	X	N	
7	101223NMW21R	WT	G	10/12/23	1115				5	X		X							X	X	X	X	N	
8	101223NMW33R	WT	G	10/12/23	1305				5	X		X							X	X	X	X	N	
9	101223NMW22R	WT	G	10/12/23	1350				5	X		X							X	X	X	X	N	
10		WT	G																						
11		WT	G																						
12		WT	G																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	M. Weidman / MSP	10/12/23	1530		10/12/23	1530	
All samples preserved on ice		10/13/23	0600		10/13/23	1145	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Tomis / J. Davis / M. Weidman / Z. Mondshine

SIGNATURE of SAMPLER: DATE Signed: 10/12/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

COC ID: CPS_2SA2023_CCR_GroupC_4_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

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: LO 10/13/27

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 93032 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.
-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:
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)	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)	Bern	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	1			
2			2			1																			2	1			
3			2			1																			2	1			
4			2			1																			2	1			
5			2			1																			2	1			
6			2			1																			2	1			
7			2			1																			3	1			
8			2			1																			2	1			
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

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Section A Required Client Information	Section B Required Project Information	Section C Invoice Information	
Company: Dominion Energy, VA	Report To: [illegible]	Attention:	
Address: 1300 Hamilton Parkway	Copy To: [illegible]	Company Name:	
Suite 203 Richmond, VA 23225		Address:	Regulatory Agency
Email:	Purchase Order #:	Pace Quote:	
Phone: (540) 824-1744 Fax:	Project Name: [illegible]	Pace Project Manager:	State / Location
Requested Due Date: Standard TAT	Project #: 14 [illegible]	Pace Profile #: 13861	VA

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / ,) Sample Ids must be unique	Matrix Codes	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Temp in °C	# 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	101223NMW23R	GW	10/12/23	1705				5	X		X							X X X X	
2	101223NMW32SR	GW	10/14/23	1645				5	X		X							X X X X	
3	101323NMW25	GW	10/13/23	1145				5	X		X							X X X X	
4	101323NMW26	GW	10/13/23	1055				5	X		X							X X X X	
5	101323NMW27	GW	10/13/23	0930				5	X		X							X X X X	
6	101323NMW34	GW	10/13/23	0950				5	X		X							X X X X	
7	101323FBLAP	GW	10/13/23	1020				5	X		X							X X X X	
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Level II Data package	J DAVIS / WSP	10/13	1654	[illegible] PACE	10/13/23	1259	
All samples preserved on ice	[illegible] PACE	10/13/23	1600	A.Kuklen / PACE / AVL	10-14-23	1055	1.7 Y N Y
							1.2 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Z. Meadshine / T. Turisi / J. Davis

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/12/23 - 10/13/23

COC ID: CPS_DSA2023_CCR_GroupC_5.1

[signature]

DC#_Title: ENV-FRM-HUN1-0084 v01_Tech Spec Sample Condition Upon Receipt
Effective Date: 05/12/2022

Laboratory receiving samples:
(X) 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:

Custody Seal Present? [ ] Yes [X] No Seals Intact? [ ] Yes [X] No Date/Initials Person Examining Contents: 10-14-23 AR

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] None [ ] Other

Biological Tissue Frozen? [ ] Yes [ ] No [X] N/A

Thermometer: [X] IR Gun ID 93T082 Type of Ice. [X] Wet [ ] Blue [ ] None

Cooler Temp (°C): 1.7/1.2 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): 1.7/1.2

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: 1145 Temp: 1.7/1.2
Time: put in cooler 1155
Time: Temp:

CLIENT NOTIFICATION/RESOLUTION

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 #

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillator vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1			2			1																			2				
2			2			1																			2				
3			2			1																			2				
4			2			1																			2				
5			2			1																			2				
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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:	L1668234
Samples Received:	10/18/2023
Project Number:	92692691
Description:	CPS_2SA2023_CCR_GroupC
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.



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101023NB50 L1668234-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/10/23 12:45	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

101223NMW36S L1668234-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 09:30	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 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

101223FDLAP L1668234-03 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 09:40	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 06:47	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 06:47	DDD	Mt. Juliet, TN

101223NMW28 L1668234-04 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 09:15	10/18/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168049	1	11/09/23 17:41	11/17/23 06:47	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 06:47	DDD	Mt. Juliet, TN

101223EBLAP L1668234-05 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 10:25	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 06:47	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 06:47	DDD	Mt. Juliet, TN

101223NMW20 L1668234-06 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 06:47	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 06:47	DDD	Mt. Juliet, TN

101223NMW21R L1668234-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 11:15	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 13:35	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 13:35	DDD	Mt. Juliet, TN

101223NMW33R L1668234-08 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 13:35	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 13:35	DDD	Mt. Juliet, TN

101223NMW22R L1668234-09 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 13:30	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 13:35	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 13:35	DDD	Mt. Juliet, TN

101223NMW23R L1668234-10 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 17:05	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 13:35	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 13:35	DDD	Mt. Juliet, TN

101223NMW32SR L1668234-11 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/12/23 16:45	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 18:31	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	WG2168720	1	11/13/23 16:09	11/21/23 18:31	SNR	Mt. Juliet, TN

101323NMW25 L1668234-12 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/13/23 11:45	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 18:31	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	WG2168720	1	11/13/23 16:09	11/21/23 18:31	SNR	Mt. Juliet, TN

101323NMW26 L1668234-13 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/13/23 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 18:31	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	WG2168720	1	11/13/23 16:09	11/21/23 18:31	SNR	Mt. Juliet, TN

101323NMW27 L1668234-14 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/13/23 09:20	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 18:31	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	WG2168720	1	11/13/23 16:09	11/21/23 18:31	SNR	Mt. Juliet, TN

101323NMW34 L1668234-15 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/13/23 09:50	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	WG2170376	1	11/13/23 17:37	11/16/23 21:32	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2168720	1	11/13/23 16:09	11/21/23 19:31	SNR	Mt. Juliet, TN

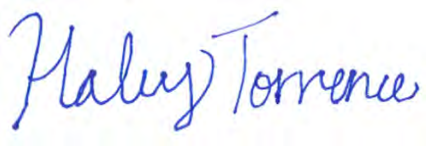
101323FBLAP L1668234-16 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/13/23 10:20	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

CASE NARRATIVE

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	0.924		0.388		0.356		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 pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.179	J	0.202		0.364		11/16/2023 21:32	WG2170376
(T) Barium	*102*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*102*					*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	1.10		0.437	0.509	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	1.16		0.394		0.201		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	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.501		0.272		0.480		11/16/2023 21:32	WG2170376
(T) Barium	*80.0*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*103*					*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	1.66		0.479	0.520	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	1.47		0.468		0.346		11/17/2023 06:47	WG2168049
(T) Barium	*103*					*30.0-143*	*11/17/2023 06:47*	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	1.20		0.246		0.406		11/16/2023 21:32	WG2170376
(T) Barium	*89.7*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*112*					*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	2.67		0.529	0.533	11/17/2023 06:47	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	0.543		0.297		0.273		11/17/2023 06:47	WG2168049
(T) Barium	*99.1*					*30.0-143*	*11/17/2023 06:47*	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	0.737		0.205		0.347		11/16/2023 21:32	WG2170376
(T) Barium	*103*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*98.6*					*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	1.28		0.361	0.442	11/17/2023 06:47	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	0.328	J	0.273		0.353		11/17/2023 06:47	WG2168049
(T) Barium	*101*					*30.0-143*	*11/17/2023 06:47*	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	0.644		0.216		0.372		11/16/2023 21:32	WG2170376
(T) Barium	*108*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*96.6*					*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	0.973		0.348	0.513	11/17/2023 06:47	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	0.605		0.295		0.206		11/17/2023 06:47	WG2168049
(T) Barium	*97.7*					*30.0-143*	*11/17/2023 06:47*	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	0.882		0.280		0.480		11/16/2023 21:32	WG2170376
(T) Barium	*97.4*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*106*					*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	1.49		0.407	0.522	11/17/2023 06:47	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	0.603		0.323		0.341		11/17/2023 13:35	WG2168049
(T) Barium	*101*					*30.0-143*	*11/17/2023 13:35*	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	0.727		0.351		0.613		11/16/2023 21:32	WG2170376
(T) Barium	*90.9*					*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	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.33		0.477	0.701	11/17/2023 13:35	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	0.391		0.255		0.258		11/17/2023 13:35	WG2168049
(T) Barium	*103*					*30.0-143*	*11/17/2023 13:35*	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	-0.0866	U	0.266		0.483		11/16/2023 21:32	WG2170376
(T) Barium	*140*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*105*					*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	0.391	J	0.368	0.548	11/17/2023 13:35	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	0.318	J	0.265		0.346		11/17/2023 13:35	WG2168049
(T) Barium	*100*					*30.0-143*	*11/17/2023 13:35*	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	1.25		0.290		0.489		11/16/2023 21:32	WG2170376
(T) Barium	*103*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*110*					*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	1.57		0.393	0.599	11/17/2023 13:35	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	0.612		0.289		0.200		11/17/2023 13:35	WG2168049
(T) Barium	*98.8*					*30.0-143*	*11/17/2023 13:35*	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	1.56		0.276		0.451		11/16/2023 21:32	WG2170376
(T) Barium	*95.4*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*94.4*					*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	2.17		0.400	0.493	11/17/2023 13:35	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	1.52		0.637		0.554		11/21/2023 18:31	WG2168720
(T) Barium	*98.9*					*30.0-143*	*11/21/2023 18:31*	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	1.18		0.328		0.560		11/16/2023 21:32	WG2170376
(T) Barium	*95.1*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*91.8*					*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	2.69		0.716	0.788	11/21/2023 18:31	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	0.455		0.229		0.174		11/21/2023 18:31	WG2168720
(T) Barium	*97.9*					*30.0-143*	*11/21/2023 18:31*	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	0.264	J	0.301		0.536		11/16/2023 21:32	WG2170376
(T) Barium	*99.1*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*96.6*					*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	0.719		0.378	0.564	11/21/2023 18:31	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	0.524		0.251		0.221		11/21/2023 18:31	WG2168720
(T) Barium	*101*					*30.0-143*	*11/21/2023 18:31*	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	0.152	U	0.297		0.531		11/16/2023 21:32	WG2170376
(T) Barium	*94.9*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*107*					*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	0.676		0.389	0.575	11/21/2023 18:31	WG2168720

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	1.78		0.446		0.293		11/21/2023 18:31	WG2168720
(T) Barium	*100*					*30.0-143*	*11/21/2023 18:31*	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	3.92		0.345		0.514		11/16/2023 21:32	WG2170376
(T) Barium	*88.8*					*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	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.70		0.564	0.592	11/21/2023 18:31	WG2168720

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	0.488		0.271		0.302		11/21/2023 19:31	WG2168720
(T) Barium	*98.7*					*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	0.854		0.258		0.442		11/16/2023 21:32	WG2170376
(T) Barium	*108*					*30.0-143*	*11/16/2023 21:32*	WG2170376
(T) Yttrium	*114*					*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	1.34		0.374	0.535	11/21/2023 19:31	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	0.157	J	0.145		0.172		11/21/2023 19:31	WG2168720
(T) Barium	*99.8*					*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	1.23		0.360		0.629		11/27/2023 12:19	WG2170939
(T) Barium	*113*					*30.0-143*	*11/27/2023 12:19*	WG2170939
(T) Yttrium	*112*					*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	1.39		0.388	0.652	11/27/2023 12:19	WG2168720

Method Blank (MB)

(MB) R4001577-1 11/17/23 02:46

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc 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 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	0.318	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 pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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 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	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) R4004688-2 11/21/23 17:31

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc 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 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	0.524	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 pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
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 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	0.213	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) 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*							

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.
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

☐ 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: 92692691 Workorder Name: CPS_2SA2023_CCR_GroupC

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

C053

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 46668234
1	101023NB50	PS	10/10/2023 12:45	92692691001	Water	2						X	X											-01
2	101223NMW36S	PS	10/12/2023 09:30	92692691002	Water	2						X	X											-02
3	101223FDLAP	PS	10/12/2023 09:40	92692691003	Water	2						X	X											-03
4	101223NMW28	PS	10/12/2023 09:15	92692691004	Water	2						X	X											-04
5	101223EBLAP	PS	10/12/2023 10:25	92692691005	Water	2						X	X											-05
6	101223NMW20	PS	10/12/2023 11:30	92692691006	Water	2						X	X											-06
7	101223NMW21R	PS	10/12/2023 11:15	92692691007	Water	2						X	X											-07
8	101223NMW33R	PS	10/12/2023 13:05	92692691008	Water	2						X	X											-08
9	101223NMW22R	PS	10/12/2023 13:30	92692691009	Water	2						X	X											-09
10	101223NMW23R	PS	10/12/2023 17:05	92692691010	Water	2						X	X											-10
11	101223NMW32SR	PS	10/12/2023 16:45	92692691011	Water	2						X	X											-11
12	101323NMW25	PS	10/13/2023 11:45	92692691012	Water	2						X	X											-12
13	101323NMW26	PS	10/13/2023 10:55	92692691013	Water	2						X	X											-13
14	101323NMW27	PS	10/13/2023 09:20	92692691014	Water	2						X	X											-14
15	101323NMW34	PS	10/13/2023 09:50	92692691015	Water	2						X	X											-15
16	101323FBLAP	PS	10/13/2023 10:20	92692691016	Water							X	X											-16

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		

46068234

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	PACE AVL	10/17/23 1700			
2			10/18/23	0900	
3					

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.

L1668234

INTER_LABORATORY WORK ORDER # 92692691

(To be completed by sending lab)

Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Sending Project No:	92692691
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	10/16/23
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	16	SI-38RAD	SUB PASI RAD
Ra228 9320/Combined Ra	BP1N		HNO3	16	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.

LI606623H

Tracking Numbers	Temperature
6672 3590 5426	15.3+0
6672 3590 5390	16.0+0
5415	15.2+0
5328	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.

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(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

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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

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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

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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	

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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:

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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:

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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:

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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:

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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.

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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	

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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

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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.

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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.

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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	

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REPORT OF LABORATORY ANALYSIS

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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	

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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	

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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	

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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	

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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	

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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.

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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		

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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				
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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			
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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.



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100923NMW35S L1668235-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	10/09/23 13:45	10/18/23 09:00

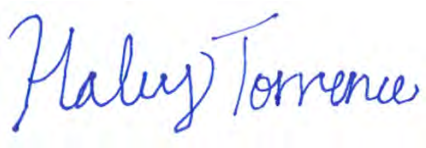
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2168720	1	11/13/23 16:09	11/21/23 19:31	SNR	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2170939	1	11/14/23 15:32	11/27/23 12:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	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_GroupF
Pace Project No.: 92692694

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.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92692694001	**101023NMWB50**	Water	10/10/23 12:45	10/11/23 11:15

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92692694001	**101023NMWB50**	SM 2540C-2011	RVS	1	PASI-A

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92692694001	**101023NMWB50**					
SM 2540C-2011	Total Dissolved Solids	431	mg/L	25.0	10/12/23 21:25	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

PROJECT NARRATIVE

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

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.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Sample: 101023NMWB50 **Lab ID: 92692694001** Collected: 10/10/23 12:45 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	**431**	mg/L	25.0	25.0	1		10/12/23 21:25		

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

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: 92692694001

METHOD BLANK: 4174261 Matrix: Water
Associated Lab Samples: 92692694001

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

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

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.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CPS_2SA2023_CCR_GroupF
Pace Project No.: 92692694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92692694001	**101023NMWB50**	SM 2540C-2011	806039		

REPORT OF LABORATORY ANALYSIS

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WO# : 92692694

92692694

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All re evant fields must be completed accurately.

Submitting a sam ple via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at http://www.pacelabs.com/pubs/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: Cristin Wade	Attention:	
Address: 1100 Boulders Parkway	Copy To: Catherine Pezzarossi	Company Name:	
Suite 400, Richmond, VA 23225		Address:	Regulatory Agency
Email:	Purchase Order #:	Pace Quote:	
Phone: (804) 994-1764 Fax:	Project Name: CPS (CPS_2SA2023_CCR_Group1)	Pace Project Manager:	State / Location
Requested Due Date: Standard (7	Project #: 9140000100	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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Lab # (Lab Only)
1	10/9_22NMWB50	WT	G	10/10/23	1245				1	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		10/10/23	1440	
All samples preserved on ice		10/10/23	1640		10/10/23	1115	2.3
							2.1

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: T. Tomsic

SIGNATURE of SAMPLER: DATE Signed: 10/10/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

COC ID: CPS_2SA2023_CCR_Group1_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: 6 10/14/22

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): 1.5/2.3/1.9 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)	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)-DPH/Gas kit (N/A)	SPST-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)

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.

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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

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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

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Huntersville, NC 28078
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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

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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

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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.

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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

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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

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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.

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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		

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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: 4/3/2023 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:

92661755

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
041023NMW25	MW-25	N	SW-846 6020B	Cobalt	T	0.79	J	RL	0.050	1.0		ug/L
041023NMW25	MW-25	N	SW-846 6020B	Lead	T	0.17	J	RL	0.077	1.0		ug/L
041023NMW25	MW-25	N	SW-846 6020B	Lithium	T	1.9	J	RL	0.50	2.5		ug/L
041023NMW25	MW-25	N	SW-846 9056A	Sulfate	N	0.94	J	RL	0.50	1.0		mg/L
041023NMW26	MW-26	N	SW-846 6020B	Molybdenum	T	0.23	J	RL	0.13	1.0		ug/L
041023NMW27	MW-27	N	SW-846 6020B	Lithium	T	2.0	J	RL	0.50	2.5		ug/L
041023NMW27	MW-27	N	SW-846 6020B	Thallium	T	0.060	J	RL	0.050	0.20		ug/L
041023NMW27	MW-27	N	SW-846 9056A	Fluoride	N	0.093	J	RL	0.050	0.10		mg/L
041023FDLAP	MW-25	FD	SW-846 6020B	Cobalt	T	0.66	J	RL	0.050	1.0		ug/L
041023FDLAP	MW-25	FD	SW-846 6020B	Lead	T	0.10	J	RL	0.077	1.0		ug/L
041023FDLAP	MW-25	FD	SW-846 6020B	Lithium	T	1.8	J	RL	0.50	2.5		ug/L
041023FDLAP	MW-25	FD	SW-846 9056A	Sulfate	N	0.81	J	RL	0.50	1.0		mg/L
041223NMWB50	B-50	N	SW-846 6020B	Arsenic	T	0.76	J	RL	0.087	1.0		ug/L
041223NMWB50	B-50	N	SW-846 6020B	Cobalt	T	0.99	J	RL	0.050	1.0		ug/L
041223NMWB50	B-50	N	SW-846 6020B	Molybdenum	T	0.36	J	RL	0.13	1.0		ug/L
041223NMWB50	B-50	N	SW-846 6020B	Thallium	T	0.12	J	RL	0.050	0.20		ug/L
041323NMW36S	MW-36S	N	SW-846 6010D	Beryllium	T	0.20	J	RL	0.17	4.0		ug/L
041323NMW36S	MW-36S	N	SW-846 6010D	Cadmium	T	0.80	J	RL	0.33	1.0		ug/L
041323NMW36S	MW-36S	N	SW-846 6020B	Lithium	T	0.81	J	RL	0.50	2.5		ug/L
041423NMW20	MW-20	N	SW-846 6010D	Cadmium	T	0.57	J	RL	0.33	1.0		ug/L
041423NMW20	MW-20	N	SW-846 6020B	Arsenic	T	0.21	J	RL	0.087	1.0		ug/L
041423NMW20	MW-20	N	SW-846 6020B	Lead	T	0.17	J	RL	0.077	1.0		ug/L
041423NMW20	MW-20	N	SW-846 9056A	Fluoride	N	0.081	J	RL	0.050	0.10		mg/L
041423NMW21R	MW-21R	N	SW-846 6020B	Arsenic	T	0.72	J	RL	0.087	1.0		ug/L
041423NMW21R	MW-21R	N	SW-846 6020B	Lead	T	0.098	J	RL	0.077	1.0		ug/L
041423NMW21R	MW-21R	N	SW-846 6020B	Lithium	T	1.2	J	RL	0.50	2.5		ug/L
041423NMW21R	MW-21R	N	SW-846 6020B	Molybdenum	T	0.36	J	RL	0.13	1.0		ug/L
041423NMW21R	MW-21R	N	SW-846 6020B	Thallium	T	0.079	J	RL	0.050	0.20		ug/L
041423NMW22R	MW-22R	N	SW-846 6020B	Arsenic	T	0.36	J	RL	0.087	1.0		ug/L
041423NMW22R	MW-22R	N	SW-846 6020B	Lead	T	0.34	J	RL	0.077	1.0		ug/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
041423NMW22R	MW-22R	N	SW-846 6020B	Molybdenum	T	0.14	J	RL	0.13	1.0		ug/L
041423NMW23R	MW-23R	N	SW-846 6010D	Boron	T	13.9	J	RL	12.4	50.0		ug/L
041423NMW23R	MW-23R	N	SW-846 6020B	Lead	T	0.12	J	RL	0.077	1.0		ug/L
041423NMW23R	MW-23R	N	SW-846 6020B	Lithium	T	0.58	J	RL	0.50	2.5		ug/L
041423NMW32SR	MW-32SR	N	SW-846 6010D	Boron	T	31.8	J	RL	12.4	50.0		ug/L
041423NMW32SR	MW-32SR	N	SW-846 6010D	Chromium	T	2.0	J	RL	1.7	5.0		ug/L
041423NMW32SR	MW-32SR	N	SW-846 6020B	Lead	T	0.80	J	RL	0.077	1.0		ug/L
041423NMW33R	MW-33R	N	SW-846 6020B	Lead	T	0.078	J	RL	0.077	1.0		ug/L
041023NMW25	MW-25	N	CALC	Combined Radium	N	0.287	U	FD,S			0.405	pCi/L
041023NMW25	MW-25	N	SW-846 9315	Radium-226	N	0.287	UJ	FD	0.365	0.365	0.341	pCi/L
041023NMW26	MW-26	N	CALC	Combined Radium	N	0.931	J+	Y			0.448	pCi/L
041023NMW26	MW-26	N	SW-846 9320	RADIUM-228	N	0.484	J+	Y	0.333	0.333	0.190	pCi/L
041023NMW27	MW-27	N	CALC	Combined Radium	N	5.92	J+	Y			0.932	pCi/L
041023NMW27	MW-27	N	SW-846 9320	RADIUM-228	N	3.59	J+	Y	0.487	0.487	0.318	pCi/L
041023NMW34	MW-34	N	CALC	Combined Radium	N	1.14	J	S			0.592	pCi/L
041023FBLAP	Field Blank	FB	CALC	Combined Radium	N	0.204	U	S			0.376	pCi/L
041023FDLAP	MW-25	FD	CALC	Combined Radium	N	1.12	J	FD,S			0.646	pCi/L
041023FDLAP	MW-25	FD	SW-846 9315	Radium-226	N	0.969	J	FD	0.377	0.377	0.584	pCi/L
041023EBLAP	Equipment Blank	EB	CALC	Combined Radium	N	0.0799	U	S			0.368	pCi/L
041223NMWB50	B-50	N	CALC	Combined Radium	N	0.479	J	S			0.497	pCi/L
041323NMW36S	MW-36S	N	CALC	Combined Radium	N	1.20	J	S			0.742	pCi/L
041423NMW21R	MW-21R	N	CALC	Combined Radium	N	0.630	J	S			0.746	pCi/L
041423NMW22R	MW-22R	N	CALC	Combined Radium	N	0.703	J	S			0.578	pCi/L
041423NMW23R	MW-23R	N	CALC	Combined Radium	N	0.428	J	S			0.397	pCi/L
041423NMW32SR	MW-32SR	N	CALC	Combined Radium	N	1.06	J	S			0.548	pCi/L
041423NMW33R	MW-33R	N	CALC	Combined Radium	N	0.298	U	S			0.426	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: 92661755

Lab Sample ID	92661755001
Sys Sample Code	041023NMW25
Sample Name	041023NMW25
Sample Date	4/10/2023 11:10:00 AM
Location	CPS-LAP-MW-25 / MW-25
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	211				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	108				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	30400				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	9.5				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.79	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.17	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.9	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	2.6				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	5.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.44				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.94	J	RL		0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92661755002
Sys Sample Code	041023NMW26
Sample Name	041023NMW26
Sample Date	4/10/2023 11:25:00 AM
Location	CPS-LAP-MW-26 / MW-26
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	90.0				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	31.1				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	6570				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	1.2				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.2				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	2.8				0.50	0.50	2.5	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		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	7.2				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	2.8				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92661755003
Sys Sample Code	041023NMW27
Sample Name	041023NMW27
Sample Date	4/10/2023 10:00:00 AM
Location	CPS-LAP-MW-27 / MW-27
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	260				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	92.6				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	419				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	28100				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	8.9				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	2.0	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	0.060	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	58.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.093	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	42.9				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92661755004
Sys Sample Code	041023NMW34
Sample Name	041023NMW34
Sample Date	4/10/2023 10:10:00 AM
Location	CPS-LAP-MW-34 / MW-34
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	250				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	1040				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	50000				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	9.2				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	2.3				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	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	Fluoride	16984-48-8	N	mg/L	0.14				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
SW-846 9056A	Chloride	16887-00-6	N	mg/L	98.7				1.2	1.2	2.0	Y	Yes	2	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92661755005
Sys Sample Code	041023FBLAP
Sample Name	041023FBLAP
Sample Date	4/10/2023 12:05:00 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			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

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92661755006
Sys Sample Code	041023FDLAP
Sample Name	041023FDLAP
Sample Date	4/10/2023 11:25:00 AM
Location	CPS-LAP-MW-25 / MW-25
Sample Type	FD
Matrix	GW
Parent Sample	041023NMW25

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	199				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	107				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	29400				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	8.7				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.66	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.10	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.8	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	2.2				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	5.7				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.42				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.81	J	RL		0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92661755007
Sys Sample Code	041023EBLAP
Sample Name	041023EBLAP
Sample Date	4/10/2023 12:00:00 PM
Location	CPS-EB / Equipment Blank
Sample Type	EB
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	92662125001
Sys Sample Code	041223NMWB50
Sample Name	041223NMWB50
Sample Date	4/12/2023 12:00:00 PM
Location	CPS-LAP-B-50 / B-50
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	108				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	389				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	89500				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	0.76	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.99	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	0.36	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.12	J	RL		0.050	0.050	0.20	Y	Yes	1	NA
SW-846 6020B	Lithium	7439-93-2	T	ug/L		U			0.50	0.50	2.5	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	81.0				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
	Sulfate	14808-79-8	N	mg/L	60.9				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662490001
Sys Sample Code	041323NMW36S
Sample Name	041323NMW36S
Sample Date	4/13/2023 9:50:00 AM
Location	CPS-LAP-MW-36S / MW-36S
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	240				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	434				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	155				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.80	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	26900				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	13.8				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	13.0				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	0.81	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	4.4				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	57.3				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		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92662561001
Sys Sample Code	041423NMW20
Sample Name	041423NMW20
Sample Date	4/14/2023 10:00:00 AM
Location	CPS-LAP-MW-20 / MW-20
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	331				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	27.7				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	503				12.4	12.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.57	J	RL		0.33	0.33	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	36800				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	0.21	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	78.7				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.17	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.9				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	0.21				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	29.0				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	161				1.5	1.5	3.0	Y	Yes	3	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92662561002
Sys Sample Code	041423NMW21R
Sample Name	041423NMW21R
Sample Date	4/14/2023 11:15:00 AM
Location	CPS-LAP-MW-21R / MW-21R
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	376				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	68.6				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	366				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	0.72	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	10.9				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.098	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	1.2	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	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	Sulfate	14808-79-8	N	mg/L	97.7				1.0	1.0	2.0	Y	Yes	2	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	47.8				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

Lab Sample ID	92662561003
Sys Sample Code	041423NMW22R
Sample Name	041423NMW22R
Sample Date	4/14/2023 1:15:00 PM
Location	CPS-LAP-MW-22R / MW-22R
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	177				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	123				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	139				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	19100				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	0.36	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	14.2				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.34	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.7				0.50	0.50	2.5	Y	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 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	20.5				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.10				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	28.2				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662561004
Sys Sample Code	041423NMW23R
Sample Name	041423NMW23R
Sample Date	4/14/2023 9:50:00 AM
Location	CPS-LAP-MW-23R / MW-23R
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	320				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	164				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	13.9	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	61700				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	4.8				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.6				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	0.58	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	5.3				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	3.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.34				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	1.7				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92662561005
Sys Sample Code	041423NMW28
Sample Name	041423NMW28
Sample Date	4/14/2023 9:10:00 AM
Location	CPS-LAP-MW-28 / MW-28
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	336				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	100				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	196				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	72100				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	137				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	5.1				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	8.6				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	15.6				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	28.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.37				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	29.9				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	92662561006
Sys Sample Code	041423NMW32SR
Sample Name	041423NMW32SR
Sample Date	4/14/2023 12:15:00 PM
Location	CPS-LAP-MW-32SR / MW-32SR
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	278				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	183				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	31.8	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	29200				190	190	500	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	2.0	J	RL		1.7	1.7	5.0	Y	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	8.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.9				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.80	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	3.0				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		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	18.7				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.26				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	37.2				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92662561007
Sys Sample Code	041423NMW33R
Sample Name	041423NMW33R
Sample Date	4/14/2023 10:10:00 AM
Location	CPS-LAP-MW-33R / MW-33R
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	259				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	208				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	298				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	33000				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	10.5				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.2				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.078	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	2.0				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	31.7				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		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	L1605797-01
Sys Sample Code	041023NMW25
Sample Name	041023NMW25
Sample Date	4/10/2023 11:10:00 AM
Location	CPS-LAP-MW-25 / MW-25
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	0.287	U	FD,S	0.405				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.287	UJ	FD	0.341	0.365	0.365	0.365	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.290	U		0.218	0.408	0.408	0.408	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1605797-02
Sys Sample Code	041023NMW26
Sample Name	041023NMW26
Sample Date	4/10/2023 11:25:00 AM
Location	CPS-LAP-MW-26 / MW-26
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	0.931	J+	Y	0.448				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.447			0.406	0.359	0.359	0.359	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.484	J+	Y	0.190	0.333	0.333	0.333	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1605797-03
Sys Sample Code	041023NMW27
Sample Name	041023NMW27
Sample Date	4/10/2023 10:00:00 AM
Location	CPS-LAP-MW-27 / MW-27
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	5.92	J+	Y	0.932				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	2.33			0.876	0.439	0.439	0.439	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.59	J+	Y	0.318	0.487	0.487	0.487	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1605797-04
Sys Sample Code	041023NMW34
Sample Name	041023NMW34
Sample Date	4/10/2023 10:10:00 AM
Location	CPS-LAP-MW-34 / MW-34
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	1.14	J	S	0.592				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.873			0.553	0.366	0.366	0.366	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.265	U		0.212	0.379	0.379	0.379	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1605797-05
Sys Sample Code	041023FBLAP
Sample Name	041023FBLAP
Sample Date	4/10/2023 12:05:00 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	0.204	U	S	0.376				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.204	U		0.300	0.362	0.362	0.362	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.280	U		0.226	0.421	0.421	0.421	N	Y	1	NA

Lab Sample ID	L1605797-06
Sys Sample Code	041023FDLAP
Sample Name	041023FDLAP
Sample Date	4/10/2023 11:25:00 AM
Location	CPS-LAP-MW-25 / MW-25
Sample Type	FD
Matrix	GW
Parent Sample	041023NMW25

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	J	FD,S	0.646				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.969	J	FD	0.584	0.377	0.377	0.377	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.156	U		0.275	0.495	0.495	0.495	N	Y	1	NA

Lab Sample ID	L1605797-07
Sys Sample Code	041023EBLAP
Sample Name	041023EBLAP
Sample Date	4/10/2023 12:00:00 PM
Location	CPS-EB / Equipment Blank
Sample Type	EB
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	0.0799	U	S	0.368				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0799	U		0.271	0.451	0.451	0.451	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.0453	U		0.249	0.455	0.455	0.455	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1605797-08
Sys Sample Code	041223NMWB50
Sample Name	041223NMWB50
Sample Date	4/12/2023 12:00:00 PM
Location	CPS-LAP-B-50 / B-50
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	0.479	J	S	0.497				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.479			0.435	0.386	0.386	0.386	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.0117	U		0.240	0.438	0.438	0.438	N	Y	1	NA

Lab Sample ID	L1607421-01
Sys Sample Code	041323NMW36S
Sample Name	041323NMW36S
Sample Date	4/13/2023 9:50:00 AM
Location	CPS-LAP-MW-36S / MW-36S
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	1.20	J	S	0.742				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.04			0.412	0.233	0.233	0.233	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.160	U		0.617	0.863	0.863	0.863	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1607421-02
Sys Sample Code	041423NMW20
Sample Name	041423NMW20
Sample Date	4/14/2023 10:00:00 AM
Location	CPS-LAP-MW-20 / MW-20
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	1.54			0.573				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.604			0.325	0.285	0.285	0.285	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.939			0.472	0.638	0.638	0.638	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1607421-03
Sys Sample Code	041423NMW21R
Sample Name	041423NMW21R
Sample Date	4/14/2023 11:15:00 AM
Location	CPS-LAP-MW-21R / MW-21R
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	0.630	J	S	0.746				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.630			0.335	0.243	0.243	0.243	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-1.02	U		0.666	0.959	0.959	0.959	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1607421-04
Sys Sample Code	041423NMW22R
Sample Name	041423NMW22R
Sample Date	4/14/2023 1:15:00 PM
Location	CPS-LAP-MW-22R / MW-22R
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	0.703	J	S	0.578				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.703			0.369	0.343	0.343	0.343	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.243	U		0.445	0.634	0.634	0.634	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1607421-05
Sys Sample Code	041423NMW23R
Sample Name	041423NMW23R
Sample Date	4/14/2023 9:50:00 AM
Location	CPS-LAP-MW-23R / MW-23R
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	0.428	J	S	0.397				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.428			0.271	0.232	0.232	0.232	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.453	U		0.290	0.537	0.537	0.537	N	Y	1	NA

Lab Sample ID	L1607421-06
Sys Sample Code	041423NMW28
Sample Name	041423NMW28
Sample Date	4/14/2023 9:10:00 AM
Location	CPS-LAP-MW-28 / MW-28
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	0.277	U		0.347				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.242	U		0.223	0.285	0.285	0.285	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.0350	U		0.266	0.481	0.481	0.481	N	Y	1	NA

Lab Sample ID	L1607421-07
Sys Sample Code	041423NMW32SR
Sample Name	041423NMW32SR
Sample Date	4/14/2023 12:15:00 PM
Location	CPS-LAP-MW-32SR / MW-32SR
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	1.06	J	S	0.548				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.977			0.395	0.231	0.231	0.231	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.0816	U		0.380	0.681	0.681	0.681	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92661755

Lab Sample ID	L1607421-08
Sys Sample Code	041423NMW33R
Sample Name	041423NMW33R
Sample Date	4/14/2023 10:10:00 AM
Location	CPS-LAP-MW-33R / MW-33R
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	0.298	U	S	0.426				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.298	U		0.252	0.326	0.326	0.326	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.137	U		0.344	0.622	0.622	0.622	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: 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

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:

92662065

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: 92662065

Lab Sample ID	92662065001
Sys Sample Code	041223NMWB50
Sample Name	041223NMWB50
Sample Date	4/12/2023 12:00:00 PM
Location	CPS-LAP-B-50 / B-50
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	478				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: 4/10/2023 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

APPENDIX C.2

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:

92692691

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
101023NB50	MW-B50	N	SW-846 6020B	Arsenic	T	0.88	J	RL	0.087	1.0		ug/L
101023NB50	MW-B50	N	SW-846 6020B	Cobalt	T	0.87	J	RL	0.050	1.0		ug/L
101023NB50	MW-B50	N	SW-846 6020B	Lead	T	0.14	J	RL	0.077	1.0		ug/L
101023NB50	MW-B50	N	SW-846 6020B	Molybdenum	T		U	BE	0.53	1.0		ug/L
101023NB50	MW-B50	N	SW-846 6020B	Thallium	T	0.15	J	RL	0.050	0.20		ug/L
101223NMW36S	MW-36S	N	SW-846 6020B	Lead	T	0.14	J	RL	0.077	1.0		ug/L
101223NMW36S	MW-36S	N	SW-846 6020B	Lithium	T	0.76	J	RL	0.50	2.5		ug/L
101223NMW36S	MW-36S	N	SW-846 9056A	Fluoride	N	0.089	J	RL	0.050	0.10		mg/L
101223FDLAP	MW-36S	FD	SW-846 6020B	Lead	T	0.13	J	RL	0.077	1.0		ug/L
101223FDLAP	MW-36S	FD	SW-846 6020B	Lithium	T	0.70	J	RL	0.50	2.5		ug/L
101223EBLAP	Equipment Blank	EB	SW-846 6020B	Molybdenum	T	0.24	J	RL	0.13	1.0		ug/L
101223NMW20	MW-20	N	SW-846 6020B	Arsenic	T	0.26	J	RL	0.087	1.0		ug/L
101223NMW20	MW-20	N	SW-846 6020B	Lithium	T	2.3	J	RL	0.50	2.5		ug/L
101223NMW20	MW-20	N	SW-846 6020B	Thallium	T	0.13	J	RL	0.050	0.20		ug/L
101223NMW20	MW-20	N	SW-846 9056A	Fluoride	N	0.053	J	RL	0.050	0.10		mg/L
101223NMW21R	MW-21R	N	SW-846 6020B	Arsenic	T	0.59	J	RL	0.087	1.0		ug/L
101223NMW21R	MW-21R	N	SW-846 6020B	Lithium	T	0.86	J	RL	0.50	2.5		ug/L
101223NMW21R	MW-21R	N	SW-846 6020B	Molybdenum	T		U	BE	0.59	1.0		ug/L
101223NMW21R	MW-21R	N	SW-846 6020B	Thallium	T	0.13	J	RL	0.050	0.20		ug/L
101223NMW33R	MW-33R	N	SW-846 6020B	Lead	T	0.18	J	RL	0.077	1.0		ug/L
101223NMW22R	MW-22R	N	SW-846 6020B	Arsenic	T	0.38	J	RL	0.087	1.0		ug/L
101223NMW22R	MW-22R	N	SW-846 6020B	Lithium	T	2.3	J	RL	0.50	2.5		ug/L
101223NMW22R	MW-22R	N	SW-846 6020B	Molybdenum	T		U	BE	0.16	1.0		ug/L
101223NMW23R	MW-23R	N	SW-846 6020B	Lead	T	0.15	J	RL	0.077	1.0		ug/L
101223NMW23R	MW-23R	N	SW-846 6020B	Lithium	T	0.72	J	RL	0.50	2.5		ug/L
101223NMW32SR	MW-32SR	N	SW-846 6020B	Lead	T	0.49	J	RL	0.077	1.0		ug/L
101323NMW25	MW-25	N	SW-846 6020B	Lead	T	0.21	J	RL	0.077	1.0		ug/L
101323NMW26	MW-26	N	SW-846 6020B	Arsenic	T	0.62	J	RL	0.087	1.0		ug/L
101323NMW26	MW-26	N	SW-846 6020B	Lead	T	0.081	J	RL	0.077	1.0		ug/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
101323NMW26	MW-26	N	SW-846 6020B	Thallium	T	0.054	J	RL	0.050	0.20		ug/L
101323NMW27	MW-27	N	SW-846 6010D	Cadmium	T	0.49	J	RL	0.40	1.0		ug/L
101323NMW27	MW-27	N	SW-846 6020B	Arsenic	T	0.21	J	RL	0.087	1.0		ug/L
101323NMW27	MW-27	N	SW-846 6020B	Lithium	T	1.8	J	RL	0.50	2.5		ug/L
101323NMW27	MW-27	N	SW-846 7470A	Mercury	T	0.15	J	RL	0.12	0.20		ug/L
101323NMW27	MW-27	N	SW-846 9056A	Fluoride	N	0.075	J	RL	0.050	0.10		mg/L
101023NB50	MW-B50	N	CALC	Combined Radium	N	1.10	J	S			0.437	pCi/L
101223NMW36S	MW-36S	N	CALC	Combined Radium	N	1.66	J	BE,BF,FD			0.479	pCi/L
101223NMW36S	MW-36S	N	SW-846 9320	RADIUM-228	N	0.501	U	BE,BF,FD	0.501	0.501	0.272	pCi/L
101223FDLAP	MW-36S	FD	CALC	Combined Radium	N	2.67	J	BF,FD,Y			0.529	pCi/L
101223FDLAP	MW-36S	FD	SW-846 9320	RADIUM-228	N	1.20	U	BF,FD,Y	1.20	1.20	0.246	pCi/L
101223NMW28	MW-28	N	CALC	Combined Radium	N	1.28	J	BE,BF			0.361	pCi/L
101223NMW28	MW-28	N	SW-846 9320	RADIUM-228	N	0.737	U	BE,BF	0.737	0.737	0.205	pCi/L
101223EBLAP	Equipment Blank	EB	CALC	Combined Radium	N	0.973	J	S			0.348	pCi/L
101223NMW20	MW-20	N	CALC	Combined Radium	N	1.49	J	BE,BF			0.407	pCi/L
101223NMW20	MW-20	N	SW-846 9320	RADIUM-228	N	0.882	U	BE,BF	0.882	0.882	0.280	pCi/L
101223NMW21R	MW-21R	N	CALC	Combined Radium	N	1.33	J	BE,BF			0.477	pCi/L
101223NMW21R	MW-21R	N	SW-846 9320	RADIUM-228	N	0.727	U	BE,BF	0.727	0.727	0.351	pCi/L
101223NMW33R	MW-33R	N	CALC	Combined Radium	N	0.391	J	S			0.368	pCi/L
101223NMW22R	MW-22R	N	CALC	Combined Radium	N	1.57	U	BF,S			0.393	pCi/L
101223NMW22R	MW-22R	N	SW-846 9320	RADIUM-228	N	1.25	U	BF	1.25	1.25	0.290	pCi/L
101223NMW23R	MW-23R	N	CALC	Combined Radium	N	2.17	J	BF			0.400	pCi/L
101223NMW23R	MW-23R	N	SW-846 9320	RADIUM-228	N	1.56	U	BF	1.56	1.56	0.276	pCi/L
101223NMW32SR	MW-32SR	N	CALC	Combined Radium	N	2.69	J	BF,LD			0.716	pCi/L
101223NMW32SR	MW-32SR	N	SW-846 9315	Radium-226	N	1.52	J	LD	0.554	0.554	0.637	pCi/L
101223NMW32SR	MW-32SR	N	SW-846 9320	RADIUM-228	N	1.18	U	BF	1.18	1.18	0.328	pCi/L
101323NMW25	MW-25	N	CALC	Combined Radium	N	0.719	J	LD,S			0.378	pCi/L
101323NMW25	MW-25	N	SW-846 9315	Radium-226	N	0.455	J	LD	0.174	0.174	0.229	pCi/L
101323NMW26	MW-26	N	CALC	Combined Radium	N	0.676	J	LD,S			0.389	pCi/L
101323NMW26	MW-26	N	SW-846 9315	Radium-226	N	0.524	J	LD	0.221	0.221	0.251	pCi/L
101323NMW27	MW-27	N	CALC	Combined Radium	N	5.70	J	LD			0.564	pCi/L
101323NMW27	MW-27	N	SW-846 9315	Radium-226	N	1.78	J	LD	0.293	0.293	0.446	pCi/L
101323NMW34	MW-34	N	CALC	Combined Radium	N	1.34	J	BE,BF,Y,LD			0.374	pCi/L
101323NMW34	MW-34	N	SW-846 9315	Radium-226	N	0.488	J	LD	0.302	0.302	0.271	pCi/L
101323NMW34	MW-34	N	SW-846 9320	RADIUM-228	N	0.854	U	BE,BF,Y	0.854	0.854	0.258	pCi/L
101323FBLAP	Field Blank	FB	CALC	Combined Radium	N	1.39	J	S			0.388	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: 92692691

Lab Sample ID	92692691001
Sys Sample Code	101023NB50
Sample Name	101023NB50
Sample Date	10/10/2023 12:45:00 PM
Location	CPS-LAP-B-50 / MW-B50
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	88.0				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
	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	74100				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	383				32.4	32.4	50.0	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	0.88	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.87	J	RL		0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.14	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		U	BE		0.53	0.53	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.15	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	70.9				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
	Sulfate	14808-79-8	N	mg/L	64.7				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692691002
Sys Sample Code	101223NMW36S
Sample Name	101223NMW36S
Sample Date	10/12/2023 9:30:00 AM
Location	CPS-LAP-MW-36S / MW-36S
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	237				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	367				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	173				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	22200				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	17.7				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	13.0				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.14	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.76	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	4.3				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	55.0				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
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	92692691003
Sys Sample Code	101223FDLAP
Sample Name	101223FDLAP
Sample Date	10/12/2023 9:40:00 AM
Location	CPS-LAP-MW-36S / MW-36S
Sample Type	FD
Matrix	GW
Parent Sample	101223NMW36S

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	234				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	381				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	180				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	23200				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	17.4				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	12.7				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	0.70	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	4.2				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	55.0				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
	Sulfate	14808-79-8	N	mg/L		U			0.50	0.50	1.0	N	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	92692691004
Sys Sample Code	101223NMW28
Sample Name	101223NMW28
Sample Date	10/12/2023 9:15:00 AM
Location	CPS-LAP-MW-28 / MW-28
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	364				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	103				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	174				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	Arsenic	7440-38-2	T	ug/L	202				0.17	0.17	2.0	Y	Yes	2	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.2				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	12.8				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	20.3				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	25.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.36				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	21.4				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	92692691005
Sys Sample Code	101223EBLAP
Sample Name	101223EBLAP
Sample Date	10/12/2023 10:25:00 AM
Location	CPS-EB / Equipment Blank
Sample Type	EB
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	0.24	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		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	92692691006
Sys Sample Code	101223NMW20
Sample Name	101223NMW20
Sample Date	10/12/2023 11:30:00 AM
Location	CPS-LAP-MW-20 / MW-20
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	269				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	38.5				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	417				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	29100				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	0.26	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	62.2				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	2.3	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	0.13	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	127				1.5	1.5	3.0	Y	Yes	3	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	19.6				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.053	J	RL		0.050	0.050	0.10	Y	Yes	1	NA

Lab Sample ID	92692691007
Sys Sample Code	101223NMW21R
Sample Name	101223NMW21R
Sample Date	10/12/2023 11:15:00 AM
Location	CPS-LAP-MW-21R / MW-21R
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	433				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	103				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	765				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	64100				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	0.59	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	6.3				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	0.86	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U	BE		0.59	0.59	1.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.13	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	48.2				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.10				0.050	0.050	0.10	Y	Yes	1	NA
SW-846 9056A	Sulfate	14808-79-8	N	mg/L	93.1				1.0	1.0	2.0	Y	Yes	2	NA

Lab Sample ID	92692691008
Sys Sample Code	101223NMW33R
Sample Name	101223NMW33R
Sample Date	10/12/2023 1:05:00 PM
Location	CPS-LAP-MW-33R / MW-33R
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	248				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	208				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	404				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	32200				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	1.1				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		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.7				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	30.7				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		U			0.50	0.50	1.0	N	Yes	1	NA

Lab Sample ID	92692691009
Sys Sample Code	101223NMW22R
Sample Name	101223NMW22R
Sample Date	10/12/2023 1:30:00 PM
Location	CPS-LAP-MW-22R / MW-22R
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	180				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	124				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	256				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	21500				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	0.38	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		U			0.077	0.077	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.3	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U	BE		0.16	0.16	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	21.8				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
	Sulfate	14808-79-8	N	mg/L	30.0				0.50	0.50	1.0	Y	Yes	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	92692691010
Sys Sample Code	101223NMW23R
Sample Name	101223NMW23R
Sample Date	10/12/2023 5:05:00 PM
Location	CPS-LAP-MW-23R / MW-23R
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	306				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		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	56900				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	8.6				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	1.8				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.15	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	0.72	J	RL		0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	3.3				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	3.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.34				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	92692691011
Sys Sample Code	101223NMW32SR
Sample Name	101223NMW32SR
Sample Date	10/12/2023 4:45:00 PM
Location	CPS-LAP-MW-32SR / MW-32SR
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	280				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		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	30800				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	7.7				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.3				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.49	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	3.3				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.9				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	18.1				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	64.0				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692691012
Sys Sample Code	101323NMW25
Sample Name	101323NMW25
Sample Date	10/13/2023 11:45:00 AM
Location	CPS-LAP-MW-25 / MW-25
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	133				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	54.8				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		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	15300				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	18.2				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	2.4				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.21	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.6				0.50	0.50	2.5	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	2.2				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	6.1				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
	Sulfate	14808-79-8	N	mg/L	7.8				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692691013
Sys Sample Code	101323NMW26
Sample Name	101323NMW26
Sample Date	10/13/2023 10:55:00 AM
Location	CPS-LAP-MW-26 / MW-26
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	134				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	67.9				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		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	11900				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	0.62	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	7.9				0.050	0.050	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.081	J	RL		0.077	0.077	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	3.8				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	0.054	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	10.6				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.16				0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.8				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692691014
Sys Sample Code	101323NMW27
Sample Name	101323NMW27
Sample Date	10/13/2023 9:20:00 AM
Location	CPS-LAP-MW-27 / MW-27
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	385				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	734				32.4	32.4	50.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.49	J	RL		0.40	0.40	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	34900				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	0.21	J	RL		0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.3				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	1.8	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	0.22				0.050	0.050	0.20	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L	0.15	J	RL		0.12	0.12	0.20	Y	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	99.0				0.60	0.60	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.075	J	RL		0.050	0.050	0.10	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	54.5				0.50	0.50	1.0	Y	Yes	1	NA

Lab Sample ID	92692691015
Sys Sample Code	101323NMW34
Sample Name	101323NMW34
Sample Date	10/13/2023 9:50:00 AM
Location	CPS-LAP-MW-34 / MW-34
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	315				25.0	25.0	25.0	Y	Yes	1	NA
SW-846 6010D	Barium	7440-39-3	T	ug/L	223				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	633				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	40000				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	10.1				0.087	0.087	1.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	2.5				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		U			0.50	0.50	2.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	2.0				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	64.7				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	92692691016
Sys Sample Code	101323FBLAP
Sample Name	101323FBLAP
Sample Date	10/13/2023 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			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

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	L1668234-01
Sys Sample Code	101023NB50
Sample Name	101023NB50
Sample Date	10/10/2023 12:45:00 PM
Location	CPS-LAP-B-50 / MW-B50
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	1.10	J	S	0.437				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.924			0.388	0.356	0.356	0.356	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.179	U		0.202	0.364	0.364	0.364	N	Y	1	NA

Lab Sample ID	L1668234-02
Sys Sample Code	101223NMW36S
Sample Name	101223NMW36S
Sample Date	10/12/2023 9:30:00 AM
Location	CPS-LAP-MW-36S / MW-36S
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	1.66	J	BE,BF,FD	0.479				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.16			0.394	0.201	0.201	0.201	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.501	U	BE,BF,FD	0.272	0.501	0.501	0.501	N	Y	1	NA

Lab Sample ID	L1668234-03
Sys Sample Code	101223FDLAP
Sample Name	101223FDLAP
Sample Date	10/12/2023 9:40:00 AM
Location	CPS-LAP-MW-36S / MW-36S
Sample Type	FD
Matrix	GW
Parent Sample	101223NMW36S

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	2.67	J	BF,FD,Y	0.529				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.47			0.468	0.346	0.346	0.346	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.20	U	BF,FD,Y	0.246	1.20	1.20	1.20	N	Y	1	NA

Lab Sample ID	L1668234-04
Sys Sample Code	101223NMW28
Sample Name	101223NMW28
Sample Date	10/12/2023 9:15:00 AM
Location	CPS-LAP-MW-28 / MW-28
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	1.28	J	BE,BF	0.361				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.543			0.297	0.273	0.273	0.273	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.737	U	BE,BF	0.205	0.737	0.737	0.737	N	Y	1	NA

Lab Sample ID	L1668234-05
Sys Sample Code	101223EBLAP
Sample Name	101223EBLAP
Sample Date	10/12/2023 10:25:00 AM
Location	CPS-EB / Equipment Blank
Sample Type	EB
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	0.973	J	S	0.348				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.328	U		0.273	0.353	0.353	0.353	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.644			0.216	0.372	0.372	0.372	Y	Y	1	NA

Lab Sample ID	L1668234-06
Sys Sample Code	101223NMW20
Sample Name	101223NMW20
Sample Date	10/12/2023 11:30:00 AM
Location	CPS-LAP-MW-20 / MW-20
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	1.49	J	BE,BF	0.407				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.605			0.295	0.206	0.206	0.206	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.882	U	BE,BF	0.280	0.882	0.882	0.882	N	Y	1	NA

Lab Sample ID	L1668234-07
Sys Sample Code	101223NMW21R
Sample Name	101223NMW21R
Sample Date	10/12/2023 11:15:00 AM
Location	CPS-LAP-MW-21R / MW-21R
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	1.33	J	BE,BF	0.477				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.603			0.323	0.341	0.341	0.341	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.727	U	BE,BF	0.351	0.727	0.727	0.727	N	Y	1	NA

Lab Sample ID	L1668234-08
Sys Sample Code	101223NMW33R
Sample Name	101223NMW33R
Sample Date	10/12/2023 1:05:00 PM
Location	CPS-LAP-MW-33R / MW-33R
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	0.391	J	S	0.368				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.391			0.255	0.258	0.258	0.258	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	-0.0866	U		0.266	0.483	0.483	0.483	N	Y	1	NA

Lab Sample ID	L1668234-09
Sys Sample Code	101223NMW22R
Sample Name	101223NMW22R
Sample Date	10/12/2023 1:30:00 PM
Location	CPS-LAP-MW-22R / MW-22R
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	1.57	U	BF,S	0.393				N	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.318	U		0.265	0.346	0.346	0.346	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.25	U	BF	0.290	1.25	1.25	1.25	N	Y	1	NA

Lab Sample ID	L1668234-10
Sys Sample Code	101223NMW23R
Sample Name	101223NMW23R
Sample Date	10/12/2023 5:05:00 PM
Location	CPS-LAP-MW-23R / MW-23R
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	2.17	J	BF	0.400				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.612			0.289	0.200	0.200	0.200	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.56	U	BF	0.276	1.56	1.56	1.56	N	Y	1	NA

Lab Sample ID	L1668234-11
Sys Sample Code	101223NMW32SR
Sample Name	101223NMW32SR
Sample Date	10/12/2023 4:45:00 PM
Location	CPS-LAP-MW-32SR / MW-32SR
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	2.69	J	BF,LD	0.716				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.52	J	LD	0.637	0.554	0.554	0.554	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.18	U	BF	0.328	1.18	1.18	1.18	N	Y	1	NA

Lab Sample ID	L1668234-12
Sys Sample Code	101323NMW25
Sample Name	101323NMW25
Sample Date	10/13/2023 11:45:00 AM
Location	CPS-LAP-MW-25 / MW-25
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	0.719	J	LD,S	0.378				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.455	J	LD	0.229	0.174	0.174	0.174	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.264	U		0.301	0.536	0.536	0.536	N	Y	1	NA

Lab Sample ID	L1668234-13
Sys Sample Code	101323NMW26
Sample Name	101323NMW26
Sample Date	10/13/2023 10:55:00 AM
Location	CPS-LAP-MW-26 / MW-26
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	0.676	J	LD,S	0.389				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.524	J	LD	0.251	0.221	0.221	0.221	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.152	U		0.297	0.531	0.531	0.531	N	Y	1	NA

Lab Sample ID	L1668234-14
Sys Sample Code	101323NMW27
Sample Name	101323NMW27
Sample Date	10/13/2023 9:20:00 AM
Location	CPS-LAP-MW-27 / MW-27
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	5.70	J	LD	0.564				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	1.78	J	LD	0.446	0.293	0.293	0.293	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	3.92			0.345	0.514	0.514	0.514	Y	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	L1668234-15
Sys Sample Code	101323NMW34
Sample Name	101323NMW34
Sample Date	10/13/2023 9:50:00 AM
Location	CPS-LAP-MW-34 / MW-34
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	1.34	J	BE,BF,Y,LD	0.374				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.488	J	LD	0.271	0.302	0.302	0.302	Y	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	0.854	U	BE,BF,Y	0.258	0.854	0.854	0.854	N	Y	1	NA

Facility: Chesterfield Power Station
SDG: 92692691

Lab Sample ID	L1668234-16
Sys Sample Code	101323FBLAP
Sample Name	101323FBLAP
Sample Date	10/13/2023 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	1.39	J	S	0.388				Y	Y	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.157	U		0.145	0.172	0.172	0.172	N	Y	1	NA
SW-846 9320	RADIUM-228	15262-20-1	N	pCi/L	1.23			0.360	0.629	0.629	0.629	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:

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:

92692694

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: 92692694

Lab Sample ID	92692694001
Sys Sample Code	101023NMWB50
Sample Name	101023NMWB50
Sample Date	10/10/2023 12:45:00 PM
Location	CPS-LAP-B-50 / MW-B50
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	431				25.0	25.0	25.0	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



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