2023 CCR Annual Groundwater Monitoring and Corrective Action Report

Mount Storm Power Station
Low Volume Waste Settling Ponds

Prepared for:

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EXECUTIVE SUMMARY

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Mt. Storm Power Station (Station) Low Volume Waste Settling Ponds (LVWSP) located in Mt. Storm, West Virginia. The LVWSP were reconstructed with a composite liner system consistent with 40 CFR 257.72 and are considered new surface impoundments under Title 40 Code of Federal Regulations (CFR) Part 257.50 *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 Title 33 Subsection 33-1B-1 *et seq*. of the West Virginia Legislative Rule Department of Waste Management (effective date of March 1, 2022). Pursuant to the CCR Rule, the Station is required to complete an *Annual Groundwater Monitoring and Corrective Action Report* (Report) by January 31st annually.

The Report documents the status of the CCR groundwater monitoring program for the LVWSP, summarizes key actions completed, describes issues encountered, actions taken to resolve identified concerns, and proposed key activities for calendar year 2023. More specifically, this Report describes the results of the CCR Rule Assessment Monitoring Program (AMP) activities performed in 2023 to comply with CCR Rule requirements, and the progression of future sampling activities pursuant to the CCR Rule and the LVWSP's *Groundwater Monitoring Program* (GMP).

In accordance with 40 CFR Part 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 operating under the AMP in accordance with §257.95.

ii. *At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in accordance with §257.95.*
   - At the end of 2023, the Unit was operating under the AMP in accordance with §257.95.

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

   (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase
   - In 2023, there were statistically significant increases identified over background for the following Appendix III constituents at the following wells during the second semi-annual 2022 event and the first semi-annual 2023 event:
     - Chloride – OW-12
     - pH – wells OW-2A, OW-12

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

- The Unit initiated the AMP on April 20, 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 no confirmed statistically significant levels above the groundwater protection standards.

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

- Not applicable

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

- Not applicable

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

- Not applicable

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

- Not applicable

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

- Not applicable

Based on the 2023 sampling and data analysis results, WSP recommends that Dominion Energy continue to maintain an AMP at this Unit.

1.0 INTRODUCTION

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Mt. Storm Power Station (Station) Low Volume Waste Settling Ponds (LVWSP), located in Mt. Storm, West Virginia. The LVWSP are subject to the groundwater monitoring requirements in Title 40 Code of Federal Regulations (CFR) Part 257.50 *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)] (EPA, 2015, 2016, 2018, 2020a, 2020b), as well as Title 33 Subsection 33-1B-1 *et seq*. of the West Virginia Legislative Rule Department of Waste Management (WV CCR Rule; effective date of March 1, 2022). Pursuant to the CCR Rule, no later than January 31st annually, the owner or operator of CCR surface impoundments must prepare an annual groundwater monitoring and corrective action report for the CCR surface impoundments documenting the status of groundwater monitoring and corrective action programs for the preceding year.

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

1.1 Site Location

The Station is located at 436 Dominion Boulevard in Mt. Storm, West Virginia approximately 40 miles south-southwest of Cumberland, Maryland. The LVWSP are located directly south of the Station. A Site Location Map is presented as Drawing 1.

1.2 Site History

The Station and adjoining 1,200 -acre Mt. Storm Lake were constructed in 1965. Historically, the LVWSP consisted of five low volume waste settling ponds (Pyrite Pond and Ponds A, B, C, and D) which collected wastewater from the Station that included CCR carryover from the fly ash silos and bottom ash hydrobins. The Station has reconfigured the LVWSP by retrofitting the Pyrite Pond, closing the remaining ponds, and reconstructing Ponds A and B in compliance with the CCR Rule. Construction of the new ponds was completed in 2019. Groundwater monitoring at the LVWSP is required under the CCR Rule and was initiated in 2015.

1.3 Key Actions

Key actions for this Facility to date are as follows:

- Permitted for management of CCR by the West Virginia Department of Environmental Protection (DEP) under National Discharge Elimination System (NPDES) permit No. WV0005525;
- Initiated the Detection Monitoring Program (DMP) on November 3, 2015, with the collection of eight (8) baseline/background samples and completed the background monitoring activities on August 15, 2017, pursuant to the CCR Rule [257.94(b)];
- Conducted the initial DMP compliance sampling event between October 10-11, 2017, and completed the sample analyses on October 24, 2017, pursuant to the CCR Rule [257.94];
- Placed a copy of the LVWSP's *Groundwater Monitoring Program* (GMP) 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)];
- Certified the groundwater monitoring system pursuant to the CCR Rule [257.91(f) 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 LVWSP's background concentrations under the DMP in the Station's operating record on January 22, 2018;
- Conducted the initial Assessment Monitoring Program (AMP) compliance sampling event on March 19-20, 2018, and completed the sample analyses on April 20, 2018, pursuant to the CCR Rule [257.95(b)];
- Established groundwater protection standards (GWPS) for detected constituents in Appendix IV of Part 257 on October 17, 2018, pursuant to the CCR Rule [257.95(d)(2)];
- Background concentrations of Appendix III and IV constituents were updated using United States Environmental Protection Agency-approved statistical procedures on November 19, 2019;
- Background concentrations of Appendix III and IV constituents were updated using United States Environmental Protection Agency-approved statistical procedures on September 14, 2020;

- Conducted the first semi-annual 2023 AMP compliance sampling event on April 19, 2023, and completed the sample analyses on May 30, 2023, pursuant to the CCR Rule [257.95(d)(1)];
- Closure completion certification for former Ponds A, B, C, and D, per CCR Rule [257.102(c)], was issued on October 5, 2023, documenting the completed closure the ponds as of August 19, 2019; and
- Conducted the second semi-annual 2023 AMP compliance sampling event on October 25, 2023, and completed the sample analyses on December 28, 2023, pursuant to the CCR Rule [257.95(d)(1)].

1.4 Monitoring Program Concerns

There were no monitoring program concerns identified during the 2023 AMP compliance events.

2.0 SITE INFORMATION

The Station is a coal-fired power station with a generating capacity of approximately 1,600 megawatts. The first power generation turbine at the Station went online in September 1965 and was followed by the second turbine in June 1966. The third turbine went online December 1973. The LVWSP are located on the Station property directly south of the Station.

As part of the Station operations, Dominion Energy operates the LVWSP to manage Station low volume wastes including carryover CCR wash water from the ash silos and hydrobin loading areas. The LVWSP were subject to the groundwater monitoring provisions of the CCR Rule by October 17, 2017. The DEP incorporated the Federal CCR Rule, by reference, as part of the West Virginia Solid Waste Management Regulations in legislative rule Title 33 Subsection 33-1B-1 *et seq*., effective date of March 1, 2022. As such, the unit is now also subject to the WV CCR Rule.

2.1 Monitoring Well Network

The LVWSP's GMP (TRC, 2017a) details the design of the CCR Rule groundwater monitoring network. As presented in the GMP, the monitoring network is comprised of two (2) upgradient/background wells (OW-7A and OW-8) and five (5) monitoring wells (OW-2A, OW-4A, OW-10, OW-12, and OW-13) located on the natural downgradient boundary of the Unit that are designed to monitor the uppermost aquifer beneath the LVWSP. The groundwater monitoring well locations relative to the LVWSP are shown on Drawing 2.

In addition, the Station maintains fifteen (15) additional observation wells that are presently used for periodic water level monitoring activities.

2.1.1 Monitoring Well Installation and Decommissioning Activities

No groundwater monitoring wells associated with the CCR compliance well network were installed or decommissioned in calendar year 2023.

2.2 Geology and Hydrogeology

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

2.2.1 Geology

As presented on the West Virginia geologic map, the Station is located within the high plateau region of the Appalachian High Plateau physiographic province (Cardwell, 1968). The high plateau area is underlain by Paleozoic sedimentary rocks (Ordovician to Mississippian age) and the rocks are folded into a sequence of

northeasterly trending parallel anticline and synclines. Locally the area is referred to as the Allegheny Mountains. The Station is located on the eastern limb of the Blackwater Anticline which parallels the Little Blackwater River.

The area is underlain by formations of the Pennsylvanian-age Conemaugh and Allegheny Groups, which include, in descending order:

- Conemaugh Group
  - Buffalo Sandstone
  - Brush Creek shale and sandstone
  - Upper and Lower Mahoning Sandstones
  - Uffington Shale
- Allegheny Group
  - Upper Freeport Coal
  - Bolivar Claystone
  - Upper Freeport Sandstone
  - Lower Freeport Coal

The near surface geology is comprised of unconsolidated colluvium sediments that locally overlie decomposed (saprolitic) sandstone and shale transitioning to fractured competent sandstone and shale interbedded with coal beds. At the Station, the upper Brush Creek and Mahoning coal beds of the Conemaugh Group are absent, while the Upper Freeport and Lower Freeport coal beds of the Allegheny Group are present. The Upper Freeport coal bed is reported to have been mined using a combination of open pit and longwall mining technology, while the Lower Freeport coal bed is reported to be unmined.

2.2.2 Hydrogeology

Two (2) regional aquifers have been identified at the LVWSP; the water table aquifer made up of shale and sandstone units of the Conemaugh Group and a lower leaky confined coal aquifer located within the Upper Freeport Coal of the underlying Allegheny Formation (USGS, 1991). As reported in the Hydrogeological Evaluation Report (TRC, 2016), the Upper Freeport Coal is located immediately below the base of the Conemaugh Group and ranges in thickness from approximately 3.5 to 8 feet. The remainder of the Allegheny Formation and upper portion of the

underlying Pottsville Group consists predominately of shale and fire clay with a few relatively thin layers of coal and sandstone. These shale and clay layers effectively impede the vertical migration of groundwater and represent the lower boundary for the uppermost aquifer at the LVWSP. Therefore, the uppermost aquifer underlying the LVWSP consists of the water table aquifer and the underlying leaky confined Upper Freeport Coal. The uppermost aquifer is unconfined and extends vertically into the lowered fractured bedrock formations with the uppermost shale formation acting as an aquitard.

Prior to 2019, the groundwater flow direction in the uppermost aquifer beneath the LVWSP was towards the south and east. As part of the LVWSP reconstruction activities in 2018 and 2019 a dewatering system was installed to maintain a depressed groundwater table beneath the lined LVWSPs. Following installation of the dewatering system the groundwater flow direction in the uppermost aquifer beneath the LVWSP changed from the historical southerly and easterly flow directions to a convergent flow direction that is convergent from all four (4) compass points on the dewatering system installed beneath the LVWSP.

2.2.3 Potentiometric Surface Evaluation

Historical static water level data for the LVWSP 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 LVWSP was determined after each sampling event. The Potentiometric Surface Map presented as Drawing 2 was prepared using static water level data obtained during the first semi-annual AMP event on April 19, 2023. The Potentiometric Surface Map presented as Drawing 3 was prepared using static water level data obtained during the second semi-annual AMP event on October 24, 2023.

Prior to May 2017 when construction dewatering activities associated with Ponds A, B, and C were initiated, the groundwater gradient and flow direction was generally from the north towards the south and east in the direction of the adjoining Mt. Storm Lake. The monitoring network for the LVWSPs was designed on the basis of this “historical” gradient direction. Beginning around May 2017, construction dewatering activities coupled with the subsequent operation of a permanent dewatering system and the decommissioning of Pond D resulted in an inward gradient developing beneath the LVWSPs, such that the downgradient wells are now upgradient from the LVWSPs and recovered groundwater from the system is captured and managed per Station permits. This condition is expected to continue until such time as the operation of the LVWSPs ceases and the dewatering system operation is terminated. Dominion Energy continues to evaluate the hydrogeologic conditions for the ponds and will make changes to the monitoring program as appropriate.

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 LVWSPs (TRC, 2017b) consistent with 40CFR Part 257.91(e)(2) of the CCR Rule.

Using the groundwater contours presented as an overlay on Drawings 2 and 3, the average hydraulic gradient 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 effective porosity value of 10% for gravelly clay and 20% for weathered rock, the estimated average (geometric) hydraulic conductivity value of 7.06E-04 cm/s calculated from aquifer test data obtained from 15 wells, and the calculated gradients, the average rate of groundwater flow (*Vgw*) for the uppermost aquifer beneath the LVWSP was calculated and is summarized in the following table.

Groundwater Flow	Hydraulic Conductivity (k, cm/s)	Contour lines (feet amsl)	Flow Length (feet)	Average Gradient (i)	Assumed Porosity (Ø)	Estimated Groundwater Velocity	
						(cm/s)	(feet/year)
1st Semi-Annual Assessment Monitoring Program Event (April 2023)							
Vgw	7.06E-04	3252-3242	209	0.041	0.10	2.89E-04	299
		3258-3242	249		0.20	1.45E-04	150
		3244-3242	170				
2nd Semi-Annual Assessment Monitoring Program Event (October 2023)							
Vgw	7.06E-04	3252-3242	202	0.041	0.10	2.89E-04	299
		3258-3242	249		0.20	1.45E-04	150
		3244-3242	199				

As presented, the estimated average groundwater flow rate in the uppermost aquifer north of the LVWSP was variable depending on lithology and ranged from approximately 150 to 299 feet per year. The calculated flow rate for the events conducted in 2023 is generally consistent with previous calculations for the LVWSP.

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 LVWSP in 2023 for the constituents and parameters listed in Appendix III and Appendix IV of the CCR Rule. Summaries of the 2023 AMP sampling events are presented below.

Monitoring Event	Sample Dates	Final Laboratory Package Receipt Date
1st Semi-Annual Assessment Monitoring Program Event	April 19, 2023	May 30, 2023
2nd Semi-Annual Assessment Monitoring Program Event	October 25, 2023	December 28, 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 (TRC, 2017a).

Samples collected during each of the sampling events were shipped via FedEx on ice in secured coolers under chain-of-custody control to Eurofins Cleveland in Barberton, Ohio. Total dissolved solids and radium samples were then shipped to Eurofins Pittsburgh and Eurofins St. Louis (TestAmerica Missouri) for analysis. The three (3) Eurofins laboratory locations are DEP accredited laboratories (Eurofins Cleveland #210, Eurofins Pittsburgh #142, and TestAmerica Missouri #381) for CCR Rule Appendix III and IV constituents analyzed.

4.0 LABORATORY ANALYTICAL RESULTS

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

4.1 2nd Semi-Annual 2022 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual 2022 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III of the CCR rule and previously detected constituents and parameters of the following Appendix IV of the CCR Rule detects. The laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event were previously submitted in the *2022 CCR Annual Groundwater Monitoring and Corrective Action Report*. A summary of the CCR sampling data for the Unit is presented in Table 2.

4.1.1 2nd Semi-Annual 2022 Verification Event

The groundwater samples collected during the second semi-annual 2022 verification event were analyzed by Eurofins for the presence of concentrations of cobalt. The laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event were previously submitted in the *2022 CCR Annual Groundwater Monitoring and Corrective Action Report*. A summary of the verification sampling data for the Unit is presented in Table 3.

4.2 1st Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the first semi-annual 2023 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III and Appendix IV of the CCR Rule. The laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event are presented in Appendix A. A summary of the CCR sampling data for the LVWSP is presented in Table 4.

4.3 2nd Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual 2023 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III and Appendix IV constituents.

The laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event are presented in Appendix B. A summary of the CCR sampling data for the LVWSP is presented in Table 5.

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 to ensure that the analytical results met the project's data quality objectives as outlined in the Station's GMP (TRC, 2017a). The review process was performed by Environmental Standards, Inc. (ESI) in general accordance with procedures outlined in the United States Environmental Protection Agency (EPA) National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA, 2017).

5.1 1st Semi-Annual 2023 Compliance Event Findings

The laboratory and field QA/QC data for the first semi-annual compliance monitoring event samples collected April 19, 2023, were reviewed by ESI. Field QA/QC samples for this event included a field blank and a duplicate sample that was collected from compliance well OW-7A that were collected at the LVWSP on April 19, 2023. These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and EPA guidance recommendations, the data for this sampling event were determined to meet the data quality objectives for the project with the provided data qualifiers. It is noted select lithium results were flagged as estimated due to laboratory blank contamination and/or field blank contamination. A copy of the data validation record is presented in Appendix A.

5.2 2nd Semi-Annual 2023 Compliance Event Findings

The laboratory and field QA/QC data for the second semi-annual compliance monitoring event samples collected October 25, 2023, were reviewed by ESI. Field QA/QC samples for this event included a field blank and a duplicate sample that was collected from compliance well OW-4A that were collected at the LVWSP on October 25, 2023. These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and EPA guidance recommendations, the data for this sampling event were determined to meet the data quality objectives for the project with the provided data qualifiers. It is noted that select radium results were flagged as estimated due to field duplicate imprecision. Select lithium results were flagged as estimated due to field blank contamination. Select TDS results were flagged as estimated due to sample preparation anomalies as detailed in the case narrative of laboratory data package. A copy of the data validation record is presented in Appendix B.

6.0 STATISTICAL EVALUATION OF GROUNDWATER DATA

Per 40 CFR Part 257.94(e)(1), the LVWSP transitioned into the AMP in March 2018. Consistent with the CCR Rule requirements (and as adopted by the WV CCR Rule), the second semi-annual 2022 event data and the 2023 monitoring results were compared to Facility background concentrations and GWPS established on October 17, 2018, as updated.

6.1 2nd Semi-Annual 2022 Assessment Monitoring Data Evaluations

The results from the Unit's monitoring wells were compared to established background concentrations and SSIs were identified over the Unit's background for the second semi-annual 2022 AMP sampling event. Concentrations above background are identified in Table 2.

The following potential GWPS exceedance was identified for the 2nd semi-annual 2022 AMP sampling event based on a value-to-standard evaluation.

Constituent	Federal CCR GWPS	Assessment Monitoring Well	2SA2022 Concentration	2SA2022 Verification
Cobalt (µg/L)	34	OW-2A	440	15
		OW-12	69	66

Note: ug/L = Microgram per liter

As presented, the suspect cobalt concentration in the sample collected at downgradient well OW-2A was not confirmed with verification sampling (see Table 3).

Pursuant to 40 CFR Subpart 257.95(e,f,g), the second semi-annual 2022 results were evaluated against the GWPS. Based on the potential value-to-standard exceedance for cobalt, the cobalt detection at OW-12 was statistically evaluated with a lower confidence limit (LCL) statistical approach. As presented in Appendix C, the LCL calculated for OW-12 was 16.36 ug/L, which is less than the GWPS. As a result, cobalt in well OW-12 is not detected at a statistically significant level above the GWPS during the 2022 2nd semi-annual event.

6.2 1st Semi-Annual 2023 Assessment Monitoring Data Evaluations

Pursuant to 40 CFR Subpart 257.95(e,f,g), the results from the Unit's monitoring wells were compared to updated background concentrations and SSIs were identified over the Unit's background for the first semi-annual AMP sampling event. Concentrations above background are identified in Table 4.

The following potential GWPS exceedance was identified for the 1st semi-annual 2023 AMP sampling event based on a value-to-standard evaluation.

Constituent	Federal CCR GWPS	Assessment Monitoring Well	1SA2023 Concentration
Cobalt (µg/L)	34	OW-12	68

Note: ug/L = Microgram per liter

Pursuant to 40 CFR Subpart 257.95(e,f,g), the first semi-annual 2023 results were evaluated against the GWPS. Based on the potential value-to-standard exceedance for cobalt, the cobalt detection at OW-12 was statistically evaluated with a LCL statistical approach. As presented in Appendix D, the LCL calculated for OW-12 was 17.97 ug/L, which is lower than the GWPS. As a result, cobalt in well OW-12 is not detected at a statistically significant level above the GWPS during the 2022 1st semi-annual event.

6.3 2nd Semi-Annual 2023 Assessment Monitoring Data Evaluations

The data for the second semi-annual 2023 AMP sampling event (Table 5) are being evaluated against the GWPS for the LVWSP and the Facility background concentrations 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 19, 2023, with sample analyses completed on May 30, 2023. The second semi-annual 2023 AMP compliance sampling event was completed on October 25, 2023, with sample analyses complete on December 28, 2023. These groundwater sampling and analysis activities were conducted in general accordance with the requirements of the LVWSP's GMP.

Comparisons of the laboratory analytical results from the 2022 second semi-annual and 2023 first semiannual sampling events to Federal and WV CCR GWPS identified no statistically confirmed GWPS exceedances. Monitoring results from the second semiannual 2023 AMP event conducted in October 2023 are being evaluated against site specific GWPS in accordance with the applicable CCR Rule timeframe.

7.2 Planned Activities

Based on the results presented herein, Dominion Energy intends to complete the required data evaluations for the second semi-annual 2023 AMP sampling event within the CCR Rule prescribed time frames and continue with semi-annual groundwater monitoring activities in 2024 that are consistent with the provisions in the CCR Rule [Part 257.95 *et. seq*], the WV CCR Rule, and the LVWSP's GMP.

8.0 REFERENCES

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9.0 SIGNATURE SECTION

This *2023 Annual CCR 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 Mt. Storm Power Station Low Volume Waste Settling Ponds. This Report satisfies 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)] and the WV CCR Rule.

Signature	Name & Title
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https://wsponlinenam.sharepoint.com/sites/us-rvadominion/shared documents/mt storm/31406066.005 msps 2023 gw/6 deliverables/lvwsp/2024-01-xx 2023 amr/draft - 2024-01-31 mount storm lvwsp ccr amr.docx

TABLES

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-2	3257.85	11/03/2015	12.59	3245.26
		02/01/2016	11.70	3246.15
		05/02/2016	10.99	3246.86
		08/23/2016	10.91	3246.94
		11/28/2016	12.44	3245.41
		02/13/2017	11.69	3246.16
		05/16/2017	11.62	3246.23
		08/15/2017	14.03	3243.82
		10/10/2017	14.17	3243.68
		03/19/2018	11.38	3246.47
		06/04/2018	10.04	3247.81
		10/30/2018	13.71	3244.14
		04/17/2019	11.78	3246.07
		10/30/2019	12.70	3245.15
		04/15/2020	11.20	3246.65
		10/12/2020	12.32	3245.53
		04/28/2021	10.88	3246.97
		11/04/2021	11.50	3246.35
		04/27/2022	10.45	3247.40
		11/14/2022	13.69	3244.16
		4/19/2023	11.19	3246.66
		10/24/2023	12.48	3245.37
OW-2A	3257.41	11/03/2015	12.77	3244.64
		02/01/2016	13.54	3243.87
		05/02/2016	12.46	3244.95
		08/23/2016	13.54	3243.87
		11/28/2016	12.79	3244.62
		02/13/2017	11.79	3245.62
		05/16/2017	12.14	3245.27
		08/15/2017	14.19	3243.22
		10/10/2017	14.01	3243.40
		03/19/2018	13.21	3244.20
		06/05/2018	11.96	3245.45
		10/31/2018	16.19	3241.22
		04/17/2019	12.41	3245.00
		10/30/2019	13.72	3243.69
		04/15/2020	12.52	3244.89
		10/12/2020	13.62	3243.79
		04/28/2021	12.70	3244.71
		11/04/2021	11.93	3245.48
		04/27/2022	12.51	3244.90
		11/14/2022	14.39	3243.02
		4/19/2023	14.10	3243.31
		10/24/2023	13.40	3244.01

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-4	3258.73	11/03/2015	14.25	3244.48
		02/01/2016	15.52	3243.21
		05/02/2016	14.10	3244.63
		08/23/2016	15.01	3243.72
		11/28/2016	14.47	3244.26
		02/13/2017	12.87	3245.86
		05/16/2017	13.38	3245.35
		08/15/2017	14.89	3243.84
		10/10/2017	14.69	3244.04
		03/19/2018	14.22	3244.51
		06/04/2018	12.57	3246.16
		10/30/2018	13.04	3245.69
		04/17/2019	13.43	3245.30
		10/30/2019	14.59	3244.14
		04/15/2020	13.01	3245.72
		10/12/2020	14.33	3244.40
		04/28/2021	12.79	3245.94
		11/04/2021	11.80	3246.93
		04/27/2022	12.79	3245.94
		11/14/2022	16.66	3242.07
		4/19/2023	15.40	3243.33
		10/24/2023	14.19	3244.54
OW-4A	3257.40	11/03/2015	12.76	3244.64
		02/01/2016	14.00	3243.40
		05/02/2016	12.57	3244.83
		08/23/2016	13.53	3243.87
		11/28/2016	12.97	3244.43
		02/13/2017	11.71	3245.69
		05/16/2017	11.89	3245.51
		08/15/2017	13.40	3244.00
		10/10/2017	13.23	3244.17
		03/20/2018	13.01	3244.39
		06/05/2018	11.39	3246.01
		10/31/2018	11.84	3245.56
		04/17/2019	12.25	3245.15
		10/30/2019	13.41	3243.99
		04/15/2020	11.81	3245.59
		10/12/2020	13.13	3244.27
		04/28/2021	11.61	3245.79
		11/04/2021	10.63	3246.77
		04/27/2022	11.63	3245.77
		11/14/2022	14.41	3242.99
		4/19/2023	14.22	3243.18
		10/24/2023	12.91	3244.49

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-6A	3251.88	11/03/2015	6.21	3245.67
		02/01/2016	6.16	3245.72
		05/02/2016	5.60	3246.28
		08/23/2016	6.01	3245.87
		11/28/2016	6.45	3245.43
		02/13/2017	5.38	3246.50
		05/16/2017	5.47	3246.41
		08/15/2017	10.11	3241.77
		10/10/2017	8.95	3242.93
		03/19/2018	6.50	3245.38
		06/04/2018	4.65	3247.23
		10/30/2018	8.71	3243.17
		04/17/2019	6.33	3245.55
	3251.84	10/30/2019	6.86	3244.98
		04/15/2020	5.72	3246.12
		10/12/2020	7.10	3244.74
		04/28/2021	6.46	3245.38
		11/04/2021	6.98	3244.86
		04/27/2022	7.02	3244.82
		11/14/2022	7.94	3243.90
		4/19/2023	7.35	3244.49
		10/24/2023	6.65	3245.19
OW-6B	3252.68	11/03/2015	7.67	3245.01
		02/01/2016	8.28	3244.40
		05/02/2016	7.34	3245.34
		08/23/2016	8.33	3244.35
		11/28/2016	7.67	3245.01
		02/13/2017	6.98	3245.70
		05/16/2017	7.11	3245.57
		08/15/2017	9.65	3243.03
		10/10/2017	9.17	3243.51
		03/19/2018	8.05	3244.63
		06/04/2018	6.78	3245.90
		10/30/2018	9.97	3242.71
		04/17/2019	7.73	3244.95
		10/30/2019	8.65	3244.03
		04/15/2020	7.37	3245.31
		10/12/2020	8.51	3244.17
		04/29/2021	7.59	3245.09
		11/04/2021	6.78	3245.90
		04/27/2022	7.39	3245.29
		11/14/2022	9.31	3243.37
		4/19/2023	9.27	3243.41
		10/24/2023	8.43	3244.25

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-7A	3288.04	11/03/2015	34.01	3254.03
		02/01/2016	32.93	3255.11
		05/02/2016	33.03	3255.01
		08/23/2016	33.64	3254.40
		11/28/2016	34.10	3253.94
		02/13/2017	33.10	3254.94
		05/16/2017	36.99	3251.05
		08/15/2017	37.10	3250.94
		10/10/2017	37.11	3250.93
		03/19/2018	36.08	3251.96
		06/05/2018	35.92	3252.12
		10/31/2018	36.85	3251.19
		04/17/2019	36.93	3251.11
		10/30/2019	37.62	3250.42
		04/15/2020	36.45	3251.59
		10/12/2020	37.30	3250.74
		04/28/2021	36.57	3251.47
		11/04/2021	37.27	3250.77
		04/27/2022	36.49	3251.55
		11/14/2022	37.68	3250.36
		4/19/2023	36.71	3251.33
		10/24/2023	37.68	3250.36
OW-7B	3289.31	11/03/2015	34.43	3254.88
		02/01/2016	32.66	3256.65
		05/02/2016	32.50	3256.81
		08/23/2016	33.65	3255.66
		11/28/2016	34.90	3254.41
		02/13/2017	32.20	3257.11
		05/16/2017	35.24	3254.07
		08/15/2017	36.95	3252.36
		10/10/2017	37.29	3252.02
		03/19/2018	35.41	3253.90
		06/04/2018	35.18	3254.13
		10/30/2018	36.10	3253.21
		04/17/2019	36.04	3253.27
		10/30/2019	37.12	3252.19
		04/15/2020	35.67	3253.64
		10/12/2020	36.55	3252.76
		04/28/2021	35.08	3254.23
		11/04/2021	35.71	3253.60
		04/27/2022	34.79	3254.52
		11/14/2022	36.61	3252.70
		4/19/2023	35.16	3254.15
		10/24/2023	36.29	3253.02

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-8	3304.78	11/03/2015	44.36	3260.67
		02/01/2016	42.80	3262.23
		05/02/2016	42.58	3262.45
		08/23/2016	43.64	3261.39
		11/28/2016	44.96	3260.07
		02/13/2017	41.16	3263.87
		05/16/2017	41.09	3263.94
		08/15/2017	43.32	3261.71
		10/10/2017	44.85	3260.18
		03/19/2018	41.75	3263.28
		06/05/2018	42.24	3262.79
		10/30/2018	44.93	3260.10
		04/17/2019	45.23	3259.80
		10/30/2019	48.49	3256.54
		04/15/2020	43.49	3261.54
		10/12/2020	46.94	3258.09
		04/28/2021	44.44	3260.34
		11/04/2021	45.03	3259.75
		04/27/2022	44.30	3260.48
		11/14/2022	48.04	3256.74
		4/19/2023	45.96	3258.82
		10/24/2023	46.70	3258.08
OW-8A	3305.40	11/03/2015	55.98	3249.42
		02/01/2016	55.46	3249.94
		05/02/2016	54.15	3251.25
		08/23/2016	54.43	3250.97
		11/28/2016	55.55	3249.85
		02/13/2017	54.06	3251.34
		05/16/2017	55.72	3249.68
		08/15/2017	57.24	3248.16
		10/10/2017	58.01	3247.39
		03/19/2018	56.45	3248.95
		06/04/2018	55.91	3249.49
		10/30/2018	58.23	3247.17
		04/17/2019	58.36	3247.04
		10/30/2019	59.53	3245.87
		04/15/2020	57.89	3247.51
		10/12/2020	59.92	3245.48
		04/28/2021	57.50	3247.90
		11/04/2021	58.16	3247.24
		04/27/2022	57.44	3247.96
		11/14/2022	59.46	3245.94
		4/19/2023	58.10	3247.30
		10/24/2023	58.73	3246.67

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-9A	3257.56	11/03/2015	12.26	3245.30
		02/01/2016	12.72	3244.84
		05/02/2016	12.19	3245.37
		08/23/2016	12.53	3245.03
		11/28/2016	13.13	3244.43
		02/13/2017	11.89	3245.67
		05/16/2017	Dry	--
		08/15/2017	Dry	--
		10/10/2017	Dry	--
		03/19/2018	13.49	3244.07
		06/04/2018	12.44	3245.22
		10/30/2018	13.33	3244.33
		04/17/2019	>13.24	<3244.32
		10/30/2019	>13.24	<3244.32
		04/15/2020	>13.22	<3244.34
		10/12/2020	>14.23	<3243.33
		04/28/2021	>13.23	<3244.33
		11/04/2021	12.79	3244.77
		04/27/2022	13.28	3244.28
		11/14/2022	>13.33	<3244.43
		4/19/2023	>13.33	<3244.43
		10/24/2023	>13.33	<3244.43
OW-9B	3257.57	11/03/2015	12.30	3245.27
		02/01/2016	13.42	3244.15
		05/02/2016	12.15	3245.42
		08/23/2016	13.16	3244.41
		11/28/2016	12.77	3244.80
		02/13/2017	11.42	3246.15
		05/16/2017	11.68	3245.89
		08/15/2017	13.35	3244.22
		10/10/2017	13.21	3244.36
		03/19/2018	12.20	3245.37
		06/04/2018	10.83	3246.74
		10/30/2018	11.55	3246.02
		04/17/2019	12.11	3245.46
		10/30/2019	13.06	3244.51
		04/15/2020	11.47	3246.10
		10/12/2020	13.05	3244.52
		04/28/2021	20.52	3237.05
		11/04/2021	10.73	3246.84
		04/27/2022	11.52	3246.05
		11/14/2022	14.01	3243.56
		4/19/2023	13.75	3243.82
		10/24/2023	12.73	3244.84

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-10	3256.86	11/03/2015	12.24	3244.62
		02/01/2016	13.38	3243.48
		05/02/2016	11.99	3244.87
		08/23/2016	12.99	3243.87
		11/28/2016	12.35	3244.51
		02/13/2017	11.18	3245.68
		05/16/2017	11.37	3245.49
		08/15/2017	12.93	3243.93
		10/10/2017	12.77	3244.09
		03/19/2018	12.49	3244.37
		06/05/2018	10.90	3245.96
		10/31/2018	12.60	3244.26
		04/17/2019	11.75	3245.11
		10/30/2019	12.88	3243.98
		04/15/2020	11.39	3245.47
		10/12/2020	12.65	3244.21
		04/28/2021	11.23	3245.63
		11/04/2021	10.25	3246.61
		04/27/2022	11.20	3245.66
		11/14/2022	13.90	3242.96
		4/19/2023	13.68	3243.18
		10/24/2023	12.42	3244.44
OW-11	3260.48	11/03/2015	15.30	3245.18
		02/01/2016	15.70	3244.78
		05/02/2016	15.14	3245.34
		08/23/2016	15.75	3244.73
		11/28/2016	16.10	3244.38
		02/13/2017	14.90	3245.58
		05/16/2017	22.27	3238.21
		08/15/2017	21.83	3238.65
		10/10/2017	19.43	3241.05
		03/19/2018	16.81	3243.67
		06/04/2018	15.70	3244.78
		10/30/2018	16.71	3243.77
		04/17/2019	17.03	3243.45
		10/30/2019	17.27	3243.21
		04/15/2020	16.69	3243.79
		10/12/2020	17.14	3243.34
		04/28/2021	15.71	3244.77
		11/04/2021	16.06	3244.42
		04/27/2022	16.55	3243.93
		11/14/2022	16.61	3243.87
		4/19/2023	17.54	3242.94
		10/24/2023	16.90	3243.58

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-12	3270.00	11/28/2016	25.20	3244.80
		02/13/2017	23.81	3246.19
		05/16/2017	24.05	3245.95
		08/15/2017	25.65	3244.35
		10/10/2017	25.53	3244.47
		03/20/2018	25.29	3244.71
		06/05/2018	23.89	3246.11
		10/31/2018	24.94	3245.06
		04/17/2019	25.42	3244.58
		10/30/2019	25.85	3244.15
		04/15/2020	25.02	3244.98
		10/12/2020	26.10	3243.90
		04/28/2021	25.00	3245.00
		11/04/2021	24.33	3245.67
		04/27/2022	25.05	3244.95
		11/14/2022	27.03	3242.97
		4/19/2023	26.80	3243.20
		10/24/2023	26.00	3244.00
OW-13	3260.04	02/13/2017	14.83	3245.64
		05/16/2017	21.19	3239.28
		08/15/2017	18.88	3241.59
		10/10/2017	18.31	3242.16
		03/20/2018	13.89	3246.58
		06/05/2018	13.51	3246.96
		10/31/2018	16.10	3244.37
		04/17/2019	16.31	3244.16
		10/30/2019	16.75	3243.72
		04/15/2020	15.75	3244.72
		10/12/2020	16.62	3243.85
		04/28/2021	16.12	3243.92
		11/04/2021	15.59	3244.45
		04/27/2022	15.95	3244.09
		11/14/2022	17.06	3242.98
		4/19/2023	16.10	3243.94
		10/24/2023	16.58	3243.46

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-14	3261.61	10/30/2018	17.75	3243.86
		04/17/2019	18.00	3243.61
		10/30/2019	18.32	3243.29
		04/15/2020	17.75	3243.86
		10/12/2020	18.37	3243.24
		04/28/2021	17.90	3243.71
		11/04/2021	17.22	3244.39
		04/27/2022	17.75	3243.86
		11/14/2022	17.21	3244.40
		4/19/2023	17.50	3244.11
		10/24/2023	16.95	3244.66
OW-15	3254.08	10/30/2018	8.53	3245.55
		04/17/2019	8.53	3245.55
		10/30/2019	10.12	3243.96
		04/15/2020	8.54	3245.54
		10/12/2020	9.87	3244.21
		04/29/2021	8.98	3245.10
		11/04/2021	7.42	3246.66
		04/27/2022	8.34	3245.74
		11/14/2022	11.15	3242.93
		4/19/2023	10.95	3243.13
		10/24/2023	9.61	3244.47
OW-16A	3262.91	10/30/2018	24.21	3238.70
		04/17/2019	20.50	3242.41
	3264.07	10/30/2019	22.23	3241.84
		04/15/2020	20.74	3243.33
		10/12/2020	22.15	3241.92
		04/28/2021	21.72	3242.35
		11/04/2021	21.41	3242.66
		04/27/2022	21.69	3242.38
		11/14/2022	23.63	3240.44
		4/19/2023	22.42	3241.65
		10/24/2023	21.35	3242.72

TABLE 1

SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA

MOUNT STORM POWER STATION - LOW VOLUME WASTE SETTLING PONDS

Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
OW-17A	3262.83	10/30/2018	24.20	3238.63
		04/17/2019	20.48	3242.35
	3264.42	10/30/2019	22.58	3241.84
		04/15/2020	22.07	3242.35
		10/12/2020	22.52	3241.90
		04/28/2021	22.07	3242.35
		11/04/2021	20.78	3243.64
		04/27/2022	22.04	3242.38
		11/14/2022	22.76	3241.66
		4/19/2023	22.80	3241.62
		10/24/2023	22.35	3242.07
OW-18A	3263.25	10/30/2018	21.09	3242.16
		04/17/2019	20.71	3242.54
	3264.48	10/30/2019	22.23	3242.25
		04/15/2020	21.78	3242.70
		10/12/2020	22.04	3242.44
		04/28/2021	21.73	3242.75
		11/04/2021	21.56	3242.92
		04/27/2022	21.64	3242.84
		11/14/2022	22.20	3242.28
		4/19/2023	22.03	3242.45
		10/24/2023	21.93	3242.55
OW-19	3269.70	10/30/2018	28.02	3241.68
		04/17/2019	27.98	3241.72
		10/30/2019	27.98	3241.72
		04/15/2020	27.70	3242.00
		10/12/2020	27.96	3241.74
		04/28/2021	27.75	3241.95
		11/04/2021	27.69	3242.01
		04/27/2022	27.72	3241.98
		11/14/2022	19.96	3249.74
		4/19/2023	27.95	3241.75
		10/24/2023	27.93	3241.77

Note: ft AMSL = feet Above Mean Sea Level

< = Water level elevation is below the top of pump

Table 2
Summary of 2nd Semi-Annual 2022 Assessment Monitoring Program Event Data (November 2022)
Low Volume Waste Settling Ponds, Mount Storm Power Station

					Upgradient Wells								Downgradient Wells																Field Quality Control							
				Sample ID:	OW-7A				OW-8				OW-2A				OW-4A				OW-10				OW-12				OW-13				OW-2A - Duplicate				Field Blank			
				Sample Date:	11/10/2022				11/10/2022				11/10/2022				11/10/2022				11/10/2022				11/10/2022				11/10/2022				11/10/2022				11/11/2022			
Parameter Name	**Units**	**CCR Site-Specific BKGD**	**Federal GWPS**	**WV 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**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents																																								
Boron	µg/L	170	--	--	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	**68**	J	57	100	**69**	J	57	100	**140**		57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100
Calcium	µg/L	460000	--	--	**45000**		580	1000	**160000**		580	1000.0	**28000**		580	1000	**28000**		580	1000	**75000**		580	1000	**99000**		580	1000	**25000**		580	1000	**33000**	J	580	1000	< 580	U	580	1000
Chloride	mg/L	208.1	--	--	**100**		0.28	1.0	**110**		0.28	1.0	**92**		0.28	1.0	**7.6**		0.28	1.0	**57**		0.28	1.0	**130**		0.28	1.0	**21**		0.28	1.0	**81**		0.94	1.0	**26**		0.28	1.0
Fluoride	mg/L	0.540	--	4.0	**0.14**		0.024	0.050	**0.095**		0.024	0.050	**0.13**		0.024	0.050	**0.087**		0.024	0.050	**0.11**		0.024	0.050	**0.027**	J	0.024	0.050	**0.049**	J	0.024	0.050	**0.12**		0.024	0.050	< 0.024	U	0.024	0.050
pH	SU	5.77-7.17	--	--	6.12		0.01	0.01	6.45		0.01	0.01	4.63		0.01	0.01	6.84		0.01	0.01	6.22		0.01	0.01	5.12		0.01	0.01	6.17		0.01	0.01	--		--	--	--		--	--
Sulfate	mg/L	1000	--	--	**11**		0.35	1.0	**310**		1.7	1.0	**130**		0.35	1.0	**25**		0.35	1.0	**34**		0.35	1.0	**240**		1.7	1.0	**1.1**		0.35	1.0	**120**		0.35	1.0	< 0.35	U	0.35	1.0
Total Dissolved Solids	mg/L	1819	--	--	**230**		10	10	**710**		10	10	**370**		10	10	**130**		10	10	**400**		10	10	**580**		10	10	**480**		10	10	**360**		10	10	**120**		10	10
CCR Appendix IV Constituents																																								
Antimony	µg/L	QL (2)	--	--	< 0.57	U	0.57	2.0	**0.61**	J	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic	µg/L	QL (5)	10	10	< 0.75	U	0.75	5.0	**0.82**	J	0.75	5.0	**0.81**	J	0.75	5.0	**0.99**	J	0.75	5.0	< 0.75	U	0.75	5.0	**1.3**	J	0.75	5.0	**4.2**	J	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0
Barium	µg/L	370	2000	2000	**300**		2.2	5.0	**13**		2.2	5.0	**180**		2.2	5.0	**85**		2.2	5.0	**450**		2.2	5.0	**63**		2.2	5.0	**120**		2.2	5.0	**190**		2.2	5.0	< 2.2	U	2.2	5.0
Beryllium	µg/L	QL (4)	4	4	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0
Cadmium	µg/L	QL (3)	5	5	**0.21**	J	0.20	1.0	< 0.20	U	0.20	1.0	**4.4**	J	0.20	1.0	< 0.20	U	0.20	1.0	**0.26**	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	**3.2**	J	0.20	1.0	< 0.20	U	0.20	1.0
Chromium	µg/L	11	100	100	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	**3.7**	J	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0
Cobalt	µg/L	34	34	34	**4.8**		0.19	1.0	**11**		0.19	1.0	**440**		0.19	1.0	**0.55**	J	0.19	1.0	**0.66**	J	0.19	1.0	**69**		0.19	1.0	**1.3**		0.19	1.0	**420**		0.19	1.0	< 0.19	U	0.19	1.0
Fluoride	mg/L	0.540	4.0	4.0	**0.14**		0.024	0.05	**0.095**		0.024	0.05	**0.13**		0.024	0.05	**0.087**		0.024	0.05	**0.11**		0.024	0.05	**0.027**	J	0.024	0.05	**0.049**	J	0.024	0.05	**0.12**		0.024	0.05	< 0.024	U	0.024	0.05
Lead	µg/L	QL (10)	15	QL (10)	**0.84**	J	0.45	1.0	< 0.45	U	0.45	1.0	**0.88**	J	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	**0.55**	J	0.45	1.0	< 0.45	U	0.45	1.0
Lithium	µg/L	QL (40)	40	QL (40)	**14**		1.7	8.0	**5.7**	J	1.7	8.0	< 1.7	U	1.7	8.0	< 1.7	U	1.7	8.0	**4.5**	J	1.7	8.0	< 1.7	U	1.7	8.0	< 1.7	U	1.7	8.0	< 1.7	U	1.7	8.0	< 1.7	U	1.7	8.0
Mercury	µg/L	QL (0.2)	2	2	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20
Molybdenum	µg/L	QL (50)	100	QL (50)	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	**1.9**	J	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0
Selenium	µg/L	QL (5)	50	50	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Thallium	µg/L	QL (1)	2	2	**0.31**	J	0.20	1.0	**0.60**	J	0.20	1.0	**0.45**	J	0.20	1.0	< 0.20	U	0.20	1.0	**0.55**	J	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
Radium 226 and 228 (combined)	pCi/L	QL (5)	5	5	1.71	U	--	--	0.411	U	--	--	**3.28**		--	--	0.424	U	--	--	**1.54**	J	--	--	**1.16**	J	--	--	**1.54**	J	--	--	**2.25**		--	--	0.575	U	--	--
Field Parameters																																								
Conductivity	µS/cm	--	--	--	477.0		0.1	0.1	1183		0.1	0.1	586		0.1	0.1	241.0		0.1	0.1	801		0.1	0.1	679		0.1	0.1	536		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.51		0.01	0.01	1.59		0.01	0.01	0.14		0.01	0.01	0.66		0.01	0.01	0.62		0.01	0.01	0.26		0.01	0.01	0.65		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	-24.9		0.1	0.1	-39.3		0.1	0.1	228.4		0.1	0.1	-93.7		0.1	0.1	-71.2		0.1	0.1	102.8		0.1	0.1	-73.6		0.1	0.1	--		--	--	--		--	--
Temperature	C	--	--	--	10.8		0.01	0.01	12.8		0.01	0.01	14.6		0.01	0.01	17.0		0.01	0.01	14.5		0.01	0.01	15.5		0.01	0.01	14.7		0.01	0.01	--		--	--	--		--	--
Turbidity	NTU	--	--	--	6.29		0.1	0.1	9.64		0.1	0.1	9.79		0.1	0.1	7.68		0.1	0.1	9.76		0.1	0.1	6.56		0.1	0.1	9.85		0.1	0.1	--		--	--	--		--	--

Notes:
BKGD = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
QL = Quantitation Limit
MDL = Method Detection Limit
RL = Reporting Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
pCi/L = picoCurie per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
Bold font = Detected laboratory constituent

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

= Concentration greater than site specific background

= Concentration greater than WV CCR GWPS and site background

= Concentration greather than Federal GWPS, WV CCR GWPS, and site background

Table 3
Summary of 2nd Semi-Annual 2022 Verification Event Data (December 2022)
Low Volume Waste Settling Ponds, Mount Storm Power Station

					Downgradient Wells								Field Quality Control							
				Sample ID:	OW-2A				OW-12				OW-2A - Duplicate				Field Blank			
				Sample Date:	12/21/2022				12/21/2022				12/21/2022				12/21/2022			
Parameter Name	**Units**	**CCR Site-Specific BKGD**	**Federal GWPS**	**WV CCR GWPS**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix IV Constituents																				
Cobalt	µg/L	34	34	34	**15**		0.19	1.0	**66**		0.19	1.0	**15**		0.19	1.0	< 0.19	U	0.19	1.0
Field Parameters																				
Conductivity	µS/cm	--	--	--	894		0.1	0.1	1100		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.45		0.01	0.01	0.47		0.01	0.01	--		--	--	--		--	--
pH	SU	--	--	--	6.90		0.01	0.01	5.93		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	-93.1		0.1	0.1	12.7		0.1	0.1	--		--	--	--		--	--
Temperature	C	--	--	--	10.5		0.01	0.01	13.6		0.01	0.01	--		--	--	--		--	--
Turbidity	NTU	--	--	--	14.35		0.1	0.1	3.49		0.1	0.1	--		--	--	--		--	--

Notes:
BKGD = Background
CCR = Coal Combustion Residuals
WV CCR = West Virginia CCR Rule
GWPS = Groundwater Protection Standards
QL = Quantitation Limit
MDL = Method Detection Limit
RL = Reporting Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
pCi/L = picoCurie per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
Bold font = Detected laboratory constituent

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

= Concentration greater than site specific background

= Concentration greater than WV CCR GWPS and site background

= Concentration greather than Federal GWPS, WV CCR GWPS, and site background

Table 4
Summary of 1st Semi-Annual 2023 Assessment Monitoring Program Event Data (April 2023)
Low Volume Waste Settling Ponds, Mount Storm Power Station

					Upgradient Wells								Downgradient Wells																Field Quality Control							
				Sample ID:	OW-7A				OW-8				OW-2A				OW-4A				OW-10				OW-12				OW-13				OW-7A - Duplicate				Field Blank			
				Sample Date:	4/19/2023				4/19/2023				4/19/2023				4/19/2023				4/19/2023				4/19/2023				4/19/2023				4/19/2023				4/19/2023			
Parameter Name	**Units**	**CCR Site-Specific BKGD**	**Federal GWPS**	**WV 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**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents																																								
Boron	µg/L	170	--	--	< 57	U	57	100	**83**	J	57	100	**81**	J	57	100	< 57	U	57	100	**57**	J	57	100	**120**		57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100
Calcium	µg/L	460000	--	--	**42000**		250	1000	**330000**		250	1000	**120000**		250	1000	**31000**		250	1000	**64000**		250	1000	**120000**		250	1000	**24000**		250	1000	**42000**		250	1000	< 250	U	250	1000
Chloride	mg/L	208.1	--	--	**99**		0.13	1.0	**180**		0.13	1.0	**17**		0.13	1.0	**8.9**		0.13	1.0	**43**		0.13	1.0	**210**		1.3	10	**25**		0.13	1.0	**96**		0.13	1.0	< 0.13	U	0.28	1.0
Fluoride	mg/L	0.540	--	4.0	**0.091**		0.024	0.050	**0.035**	J	0.024	0.050	**0.19**		0.024	0.050	**0.039**	J	0.024	0.050	**0.11**		0.024	0.050	< 0.024	U	0.024	0.050	< 0.024	U	0.024	0.050	**0.11**		0.024	0.050	< 0.024	U	0.024	0.050
pH	SU	5.77-7.17	--	--	5.97		0.01	0.01	6.39		0.01	0.01	7.17		0.01	0.01	6.77		0.01	0.01	6.35		0.01	0.01	5.73		0.01	0.01	6.27		0.01	0.01	--		--	--	--		--	--
Sulfate	mg/L	1000	--	--	**9.1**		0.35	1.0	**770**		3.5	10	**130**		0.35	1.0	**32**		0.35	1.0	**32**		0.35	1.0	**210**		1.3	10	< 0.35	U	0.35	1.0	**8.6**		0.35	1.0	< 0.35	U	0.35	1.0
Total Dissolved Solids	mg/L	1819	--	--	**260**		10	10	**1600**		10	10	**460**		10	10	**140**		10	10	**350**		10	10	**730**		10	10	**560**		10	10	**270**		10	10	< 10	U	10	10
CCR Appendix IV Constituents																																								
Antimony	µg/L	QL (2)	--	--	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic	µg/L	QL (5)	10	10	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	**1.3**	J	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	**4.6**	J	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0
Barium	µg/L	370	2000	2000	**320**		2.2	5.0	**9.6**		2.2	5.0	**240**		2.2	5.0	**100**		2.2	5.0	**390**		2.2	5.0	**90**		2.2	5.0	**150**		2.2	5.0	**320**		2.2	5.0	< 2.2	U	2.2	5.0
Beryllium	µg/L	QL (4)	4	4	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	**0.62**	J	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0
Cadmium	µg/L	QL (3)	5	5	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	**1.2**		0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	**0.51**	J	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
Chromium	µg/L	11	100	100	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	**1.7**	J	1.2	5.0	< 1.2	U	1.2	5.0	**5.5**		1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0
Cobalt	µg/L	34	34	34	**3.4**		0.19	1.0	**21**		0.19	1.0	**3.6**		0.19	1.0	**0.66**	J	0.19	1.0	**0.80**	J	0.19	1.0	**68**		0.19	1.0	**4.0**		0.19	1.0	**3.1**		0.19	1.0	< 0.19	U	0.19	1.0
Fluoride	mg/L	0.540	4.0	4.0	**0.091**		0.024	0.050	**0.035**	J	0.024	0.050	**0.19**		0.024	0.050	**0.039**	J	0.024	0.050	**0.11**		0.024	0.050	< 0.024	U	0.024	0.050	< 0.024	U	0.024	0.050	**0.11**		0.024	0.050	< 0.024	U	0.024	0.050
Lead	µg/L	QL (10)	15	QL (10)	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	**0.80**	J	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0
Lithium	µg/L	QL (40)	40	QL (40)	**18**		1.7	8.0	< 12	U	12	12	< 9.1	U	9.1	9.1	< 5.5	U	5.5	8.0	< 7.0	U	7.0	8.0	< 4.3	U	4.3	8.0	< 4.9	U	4.9	8.0	**19**		1.7	8.0	**2.6**	J	1.7	8.0
Mercury	µg/L	QL (0.2)	2	2	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20
Molybdenum	µg/L	QL (50)	100	QL (50)	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	**3.4**	J	1.1	5.0	**1.7**	J	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0
Selenium	µg/L	QL (5)	50	50	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Thallium	µg/L	QL (1)	2	2	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	**0.45**	J	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
Radium 226 and 228 (combined)	pCi/L	QL (5)	5	5	0.332	U	--	--	0.607	U	--	--	**0.732**	J	--	--	**0.583**	J	--	--	**2.08**		--	--	**0.988**	J	--	--	**0.880**	J	--	--	**0.702**		--	--	< 0.212	U	--	--
Field Parameters																																								
Conductivity	µS/cm	--	--	--	493.7		0.1	0.1	1976		0.1	0.1	731		0.1	0.1	270		0.1	0.1	662		0.1	0.1	724		0.1	0.1	667		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	--	--	--	0.93		0.01	0.01	1.80		0.01	0.01	0.25		0.01	0.01	0.76		0.01	0.01	1.10		0.01	0.01	0.27		0.01	0.01	0.02		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	--	--	--	51.3		0.1	0.1	-3.1		0.1	0.1	-117.3		0.1	0.1	-41.7		0.1	0.1	-37.3		0.1	0.1	38.8		0.1	0.1	-62.8		0.1	0.1	--		--	--	--		--	--
Temperature	C	--	--	--	10.7		0.01	0.01	11.8		0.01	0.01	10.8		0.01	0.01	12.7		0.01	0.01	11.8		0.01	0.01	13.9		0.01	0.01	12.1		0.01	0.01	--		--	--	--		--	--
Turbidity	NTU	--	--	--	9.97		0.1	0.1	2.88		0.1	0.1	9.51		0.1	0.1	6.69		0.1	0.1	9.58		0.1	0.1	2.50		0.1	0.1	20.15		0.1	0.1	--		--	--	--		--	--

Notes:
BKGD = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
QL = Quantitation Limit
MDL = Method Detection Limit
RL = Reporting Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
pCi/L = picoCurie per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
Bold font = Detected laboratory constituent

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

= Concentration greater than site specific background

= Concentration greater than WV CCR GWPS and site background

= Concentration greather than Federal GWPS, WV CCR GWPS, and site background

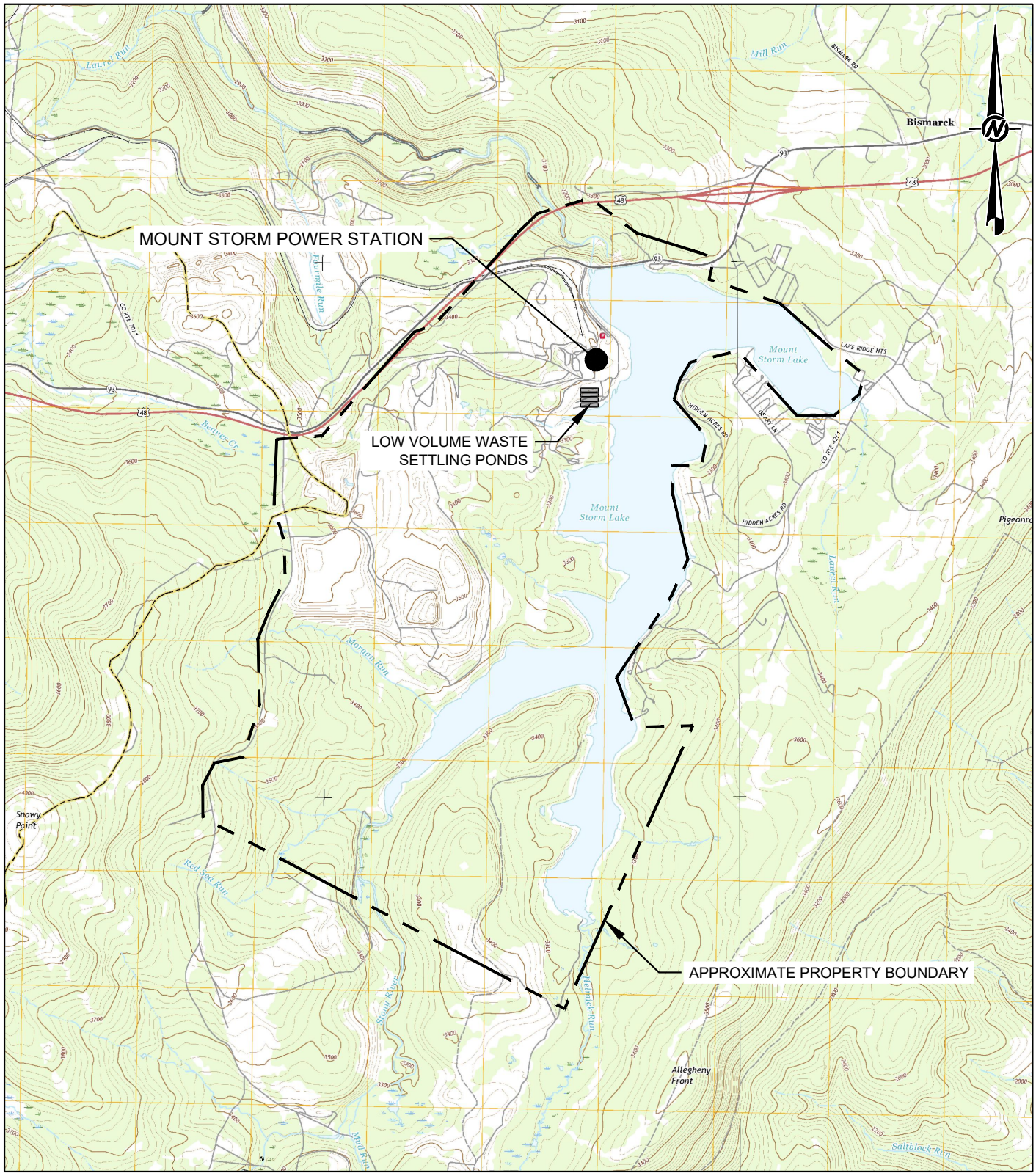
Table 5
Summary of 2nd Semi-Annual 2023 Assessment Monitoring Program Event Data (October 2023)
Low Volume Waste Settling Ponds, Mount Storm Power Station

		Upgradient Wells								Downgradient Wells																Field Quality Control							
Sample ID:		**OW-7A**				**OW-8**				**OW-2A**				**OW-4A**				**OW-10**				**OW-12**				**OW-13**				**OW-4A - Duplicate**				**Field Blank**			
Sample Date:		**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**				**10/25/2023**			
Parameter Name	**Units**	**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**	**Result**	**Qual**	**MDL**	**RL**	**Result**	**Qual**	**MDL**	**RL**
CCR Appendix III Constituents																																					
Boron	µg/L	< 57	U	57	100	< 57	U	57	100	**88**	J	57	100	**74**	J	57	100	**67**	J	57	100	**62**	J	57	100	< 57	U	57	100	**72**	J	57	100	< 57	U	57	100
Calcium	µg/L	**41000**		250	1000	**220000**		250	1000	**87000**		250	1000	**27000**		250	1000	**59000**		250	1000	**100000**		250	1000	**22000**		250	1000	**25000**		250	1000	< 250	U	250	1000
Chloride	mg/L	**100**		0.13	1.0	**120**		0.13	1.0	**28**		0.13	1.0	**8.5**		0.13	1.0	**16**		0.13	1.0	**140**		0.13	1.0	**26**		0.13	1.0	**8.6**		0.13	1.0	< 0.13	U	0.13	1.0
Fluoride	mg/L	**0.15**		0.024	0.050	**0.11**		0.024	0.050	**0.15**		0.024	0.050	**0.10**		0.024	0.050	**0.23**		0.024	0.050	**0.031**	J	0.024	0.050	**0.027**	J	0.024	0.050	**0.096**		0.024	0.050	< 0.024	U	0.024	0.050
pH	SU	6.03		0.01	0.01	6.44		0.01	0.01	6.42		0.01	0.01	6.89		0.01	0.01	6.40		0.01	0.01	6.12		0.01	0.01	6.28		0.01	0.01	--		--	--	--		--	--
Sulfate	mg/L	**9.4**		0.35	1.0	**430**		1.7	5.0	**47**		0.35	1.0	**37**		0.35	1.0	< 0.35	U	0.35	1.0	**220**		1.7	5.0	< 0.35	U	0.35	1.0	**38**		0.35	1.0	< 0.35	U	0.35	1.0
Total Dissolved Solids	mg/L	**240**		10	10	**890**	J	10	10	**370**		10	10	**120**	J	10	10	**240**	J	10	10	**680**	J	10	10	**400**		10	10	**110**	J	10	10	< 10	U	10	10
CCR Appendix IV Constituents																																					
Antimony	µg/L	**0.57**	J	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0
Arsenic	µg/L	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	**0.96**	J	0.75	5.0	< 0.75	U	0.75	5.0	**0.83**	J	0.75	5.0	**7.5**		0.75	5.0	**1.2**	J	0.75	5.0	< 0.75	U	0.75	5.0
Barium	µg/L	**290**		2.2	5.0	**11**		2.2	5.0	**150**		2.2	5.0	**86**		2.2	5.0	**420**		2.2	5.0	**79**		2.2	5.0	**200**		2.2	5.0	**80**		2.2	5.0	< 2.2	U	2.2	5.0
Beryllium	µg/L	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0
Cadmium	µg/L	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	**0.67**	J	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
Chromium	µg/L	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	**1.6**	J	1.2	5.0	**8.4**		1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0
Cobalt	µg/L	**3.1**		0.19	1.0	**13**		0.19	1.0	**39**		0.19	1.0	**0.39**	J	0.19	1.0	**0.36**	J	0.19	1.0	**71**		0.19	1.0	**4.0**		0.19	1.0	**0.31**	J	0.19	1.0	< 0.19	U	0.19	1.0
Fluoride	mg/L	**0.15**		0.024	0.050	**0.11**		0.024	0.050	**0.15**		0.024	0.050	**0.10**		0.024	0.050	**0.23**		0.024	0.050	**0.031**	J	0.024	0.050	**0.027**	J	0.024	0.050	**0.096**		0.024	0.050	< 0.024	U	0.024	0.050
Lead	µg/L	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	**1.8**		0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0
Lithium	µg/L	**14**		1.7	8.0	< 8.8	U	8.8	8.8	< 5.4	U	5.4	8.0	< 3.4	U	3.4	8.0	< 9.5	U	9.5	9.5	< 1.7	U	1.7	8.0	< 4.4	U	4.4	8.0	< 3.2	U	3.2	8.0	**2.1**	J	1.7	8.0
Mercury	µg/L	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20
Molybdenum	µg/L	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	**1.4**	J	1.1	5.0	**1.5**	J	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	**1.4**	J	1.1	5.0	< 1.1	U	1.1	5.0
Selenium	µg/L	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	**1.2**	J	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0
Thallium	µg/L	**1.2**		0.20	1.0	**0.64**	J	0.20	1.0	**0.56**	J	0.20	1.0	**0.34**	J	0.20	1.0	**0.23**	J	0.20	1.0	**0.20**	J	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
Radium 226 and 228 (combined)	pCi/L	**0.567**	J	--	--	0.209	U	--	--	**0.987**	J	--	--	**0.756**	J	--	--	**0.714**	J	--	--	**0.604**	J	--	--	**1.28**	J	--	--	0.236	UJ	--	--	0.235	U	--	--
Field Parameters																																					
Conductivity	µS/cm	517		0.1	0.1	1399		0.1	0.1	654		0.1	0.1	238.7		0.1	0.1	546		0.1	0.1	948		0.1	0.1	768		0.1	0.1	--		--	--	--		--	--
Dissolved Oxygen	mg/L	1.06		0.01	0.01	1.25		0.01	0.01	0.48		0.01	0.01	2.01		0.01	0.01	0.76		0.01	0.01	0.53		0.01	0.01	0.13		0.01	0.01	--		--	--	--		--	--
Oxidation Reduction Potential	millivolts	46.4		0.1	0.1	-33.8		0.1	0.1	-32.8		0.1	0.1	-63.2		0.1	0.1	-84.1		0.1	0.1	-2.8		0.1	0.1	-81.1		0.1	0.1	--		--	--	--		--	--
Temperature	C	10.7		0.01	0.01	12		0.01	0.01	13.8		0.01	0.01	17.1		0.01	0.01	15.0		0.01	0.01	15.6		0.01	0.01	14.7		0.01	0.01	--		--	--	--		--	--
Turbidity	NTU	5.40		0.1	0.1	5.61		0.1	0.1	8.52		0.1	0.1	9.87		0.1	0.1	9.65		0.1	0.1	2.60		0.1	0.1	44.25		0.1	0.1	--		--	--	--		--	--

Notes:
BKGD = Background
CCR = Coal Combustion Residuals
GWPS = Groundwater Protection Standards
QL = Quantitation Limit
MDL = Method Detection Limit
RL = Reporting Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
pCi/L = picoCurie per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
Bold font = Detected laboratory constituent

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

DRAWINGS



REFERENCE

BASE MAP CONSISTS OF USGS TOPOGRAPHIC QUADRANGLES
MOUNT STORM LAKE AND GREENLAND GAP, WEST VIRGINIA, DATED 2016.

4000 0 4000
SCALE FEET

CLIENT
DOMINION ENERGY

PROJECT
MOUNT STORM POWER STATION
LOW VOLUME WASTE SETTLING PONDS

CONSULTANT
wsp

YYYY-MM-DD	2024-01-29
DESIGNED	
PREPARED	SIB
REVIEWED	
APPROVED	

TITLE
SITE LOCATION MAP

PROJECT NO. 31-406066
REV. 0
DRAWING 1

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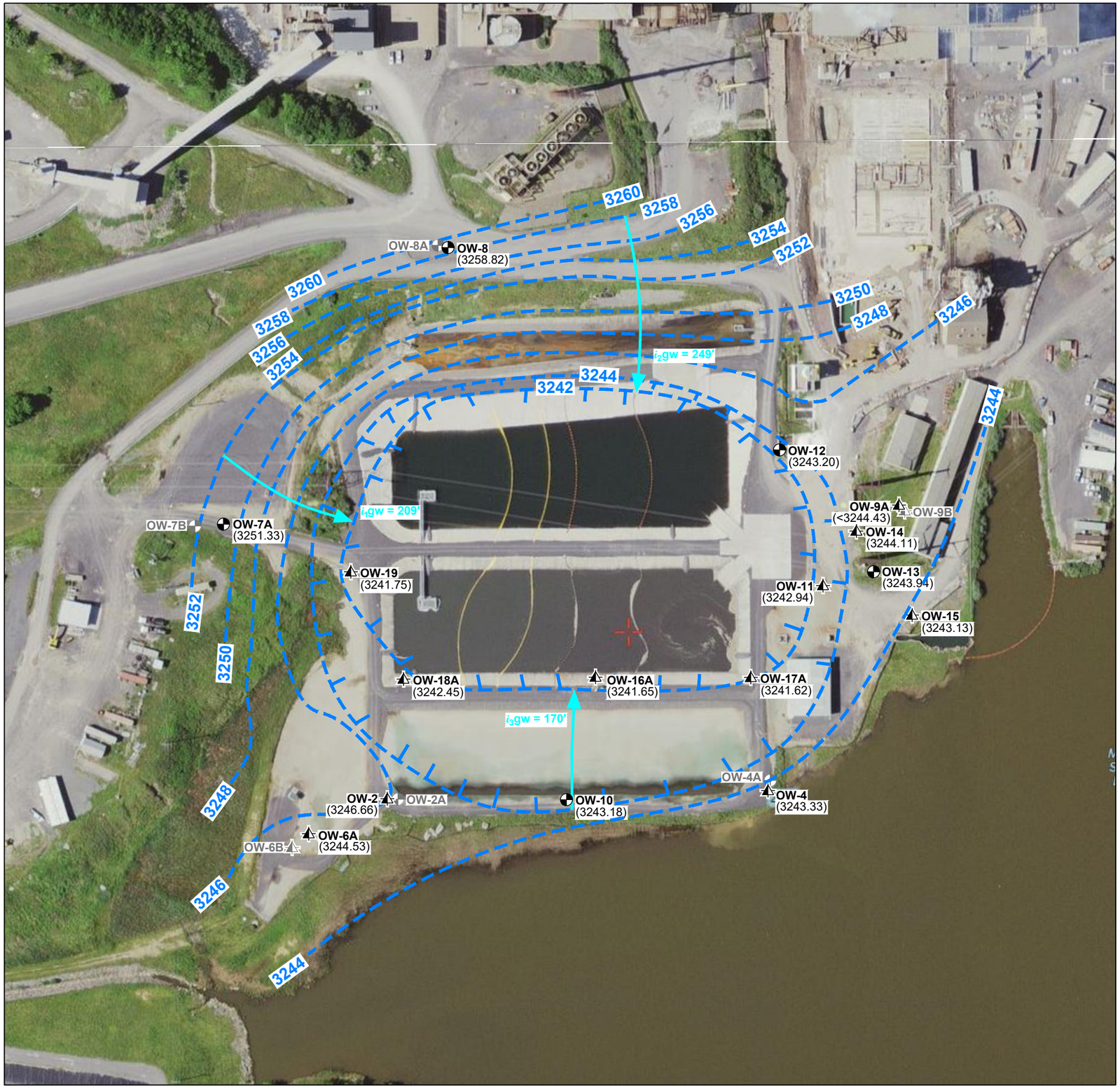
1 in
0



LEGEND

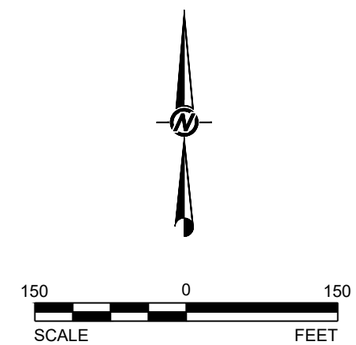
3250	POTENTIOMETRIC SURFACE CONTOUR
→	APPROXIMATE GROUNDWATER FLOW LINE
i_gw = 195'	GROUNDWATER FLOW PATH LENGTH (FEET)
OW-9A	EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION (SHALLOW AQUIFER)
OW-4A	EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION (DEEP AQUIFER)
(3243.13)	STATIC GROUNDWATER ELEVATION FOR APRIL 19, 2023 (FEET ABOVE MEAN SEA LEVEL)
OW-9B	EXISTING OBSERVATION WELL LOCATION AND IDENTIFICATION (DEEP AQUIFER)
OW-15	EXISTING OBSERVATION WELL LOCATION AND IDENTIFICATION (SHALLOW AQUIFER)

REFERENCE

1. AERIAL IMAGE TAKEN FROM SATELLITES.PRO ON 01/25/2022.
2. 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.
3. 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.

NOTES

1. SURFACE WATER ELEVATION = 3,244 FEET ABOVE MEAN SEA LEVEL.



YYYY-MM-DD 2024-01-11
DESIGNED MHK
PREPARED SIB
REVIEWED
APPROVED

CLIENT
DOMINION ENERGY

CONSULTANT

PROJECT
MOUNT STORM POWER STATION
LOW VOLUME WASTE SETTLING PONDS

TITLE
POTENTIOMETRIC SURFACE MAP
APRIL 19, 2023

PROJECT NO.
31-406066.005

REV. 0
DRAWING 2

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

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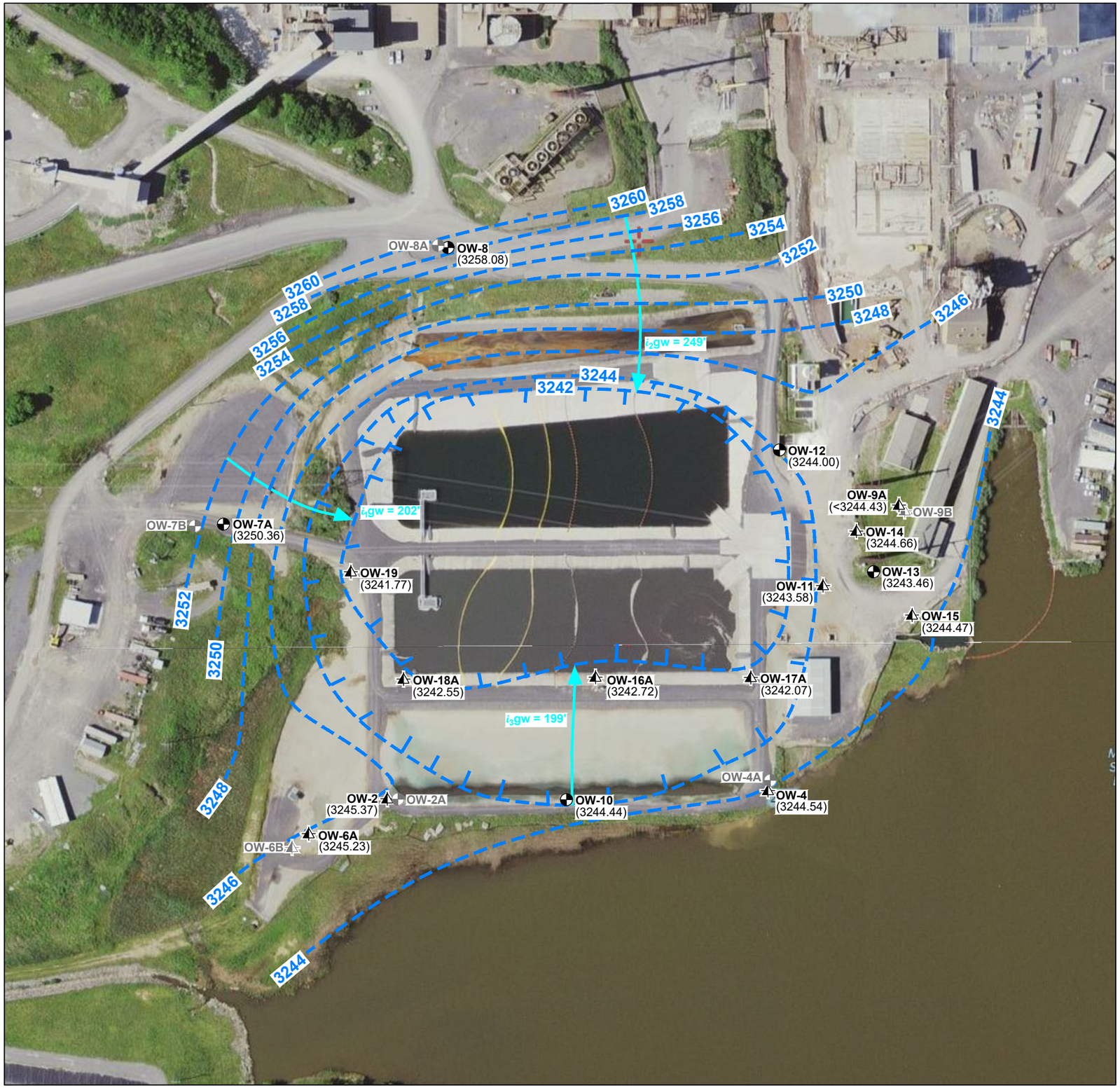


LEGEND

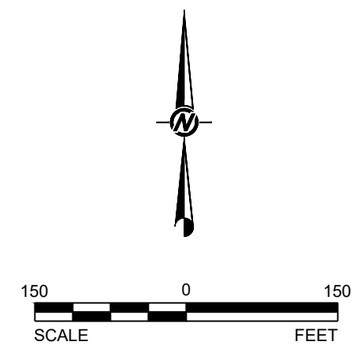
3250	POTENTIOMETRIC SURFACE CONTOUR
→	APPROXIMATE GROUNDWATER FLOW LINE
$i_1$gw = 195'	GROUNDWATER FLOW PATH LENGTH (FEET)
OW-9A	EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION (SHALLOW AQUIFER)
OW-4A	EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION (DEEP AQUIFER)
(3244.15)	STATIC GROUNDWATER ELEVATION FOR OCTOBER 24, 2023 (FEET ABOVE MEAN SEA LEVEL)
OW-9B	EXISTING OBSERVATION WELL LOCATION AND IDENTIFICATION (DEEP AQUIFER)
OW-15	EXISTING OBSERVATION WELL LOCATION AND IDENTIFICATION (SHALLOW AQUIFER)

REFERENCE

1. AERIAL IMAGE TAKEN FROM SATELLITES.PRO ON 01/25/2022.
2. 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.
3. 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.

NOTES

1. SURFACE WATER ELEVATION = 3,244 FEET ABOVE MEAN SEA LEVEL.



YYYY-MM-DD 2023-12-27
DESIGNED CPM
PREPARED SIB
REVIEWED CKS
APPROVED CKS

CLIENT
DOMINION ENERGY

CONSULTANT
wsp

PROJECT
MOUNT STORM POWER STATION
LOW VOLUME WASTE SETTLING PONDS

TITLE
POTENTIOMETRIC SURFACE MAP
OCTOBER 24, 2023

PROJECT NO.
31-406066.005

REV.
0

DRAWING
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\31-406066\100_MtStorm\Active Drawings\31406066_100_06.dwg

APPENDIX A

FIRST SEMI-ANNUAL 2023 ASSESSMENT MONITORING PROGRAM EVENT FIELD DATA SHEETS, LABORATORY CERTIFICATES OF ANALYSIS, CHAIN-OF-CUSTODY FORMS, AND DATA VALIDATION FORMS

Date: 04/19/23

WELL GAUGING LOG

Project Name: MSPS LVWSP

Project No./Task No.: 31406066.005.300.1.LBR

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

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
OW-7A	CM	0903	36.71	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-8	CM	1117	45.96	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-2A	MK	1232	14.10	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-4A	CM	1422	14.22	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-10	MK	1141	13.68	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-12	CM	~~1416~~ 1538	26.80	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-13	CM	0913	16.10	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-2	MK	1300	11.19	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-4	CM	1423	15.40	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-6A	MK	1339	7.35	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-6B	MK	1335	9.27	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-7B	CM	0901	35.16	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-8A	CM	1115	58.10	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-9A	CM	1244	BTOP	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-9B	CM	1243	13.75	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-11	CM	1237	17.54	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: _____

Signature: _____ Date: 04/19/23

QA/QC Signature: M. Knez Date: 04/21/23

Date: 04/19/23

WELL GAUGING LOG

Project Name: MSPS LVWSP

Project No./Task No.: 31406066.005.300.1.LBR

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

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
OW-14	CM	1239	17.50	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-15	CM	1235	10.95	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-16	CM	0924	22.42	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-17	CM	0921	22.80	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-18	CM	0927	22.03	—	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	☒ OK ☐ Damaged
OW-19	CM	0929	27.95	—	☒ 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: [signature] Date: 04/19/23

QA/QC Signature: [signature] Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 ~~LVSWP~~ LVWSP
Sampler(s): C. Magee
Well ID: OW-7A
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 36.71 feet
Depth to Bottom: ____ feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 18K100510
- [ ] 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
0934	5.74	574	11.74	1.10	10.4	71.5	38.54	~150
0939	5.74	567	9.59	1.04	10.3	70.3	38.70	~150
0944	5.75	554	35.28	1.06	10.4	68.7	38.70	~150
0949	5.83	544	92.28	0.90	10.4	64.5	38.70	~150
0954	5.86	517	57.35	0.98	10.4	60.8	38.70	~150
0959	5.85	507	46.65	1.59	10.5	60.4	38.70	~150
1004	5.85	503	34.92	1.18	10.5	59.4	38.70	~150
1009	5.88	501	20.03	1.07	10.6	57.8	38.70	~150
1014	5.92	497.9	16.95	0.98	10.6	55.5	38.70	~150
1019	5.95	495.4	10.97	0.90	10.7	53.2	38.70	~150
1024	5.97	493.7	9.97	0.93	10.7	51.3	38.70	~150
1025	—	S	A	M	P	L	E	—
1045	6.03	488.1	6.74	0.87	10.8	44.1	38.70	~150

Purge Cycle (End): 55/5 seconds @ 35 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): 46.25 (0.006) ≈ 0.28
Total Purge Volume (Gallons): ~3.5
Purge Water Management: D.W.S. On-site
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge time: 0907
Sample Time: 1025
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923NOW7A

Sampler Signature: [signature] Date: 04/19/23
QA/QC Signature: M. Kuy Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Meyer
Well ID: ~~MW~~-ON-8
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 45.96 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 19K100510
- [ ] 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
1127	6.22	1942	13.51	3.41	11.8	44.7	47.13	~240
1132	6.33	2022	4.70	2.42	11.7	25.3	47.25	~240
1137	6.38	1989	3.79	2.21	11.8	14.5	47.36	~240
1142	6.40	1963	3.29	2.13	11.8	6.3	47.40	~240
1147	6.40	1965	2.79	1.97	11.8	1.5	47.43	~240
1152	6.39	1976	2.88	1.80	11.8	-3.1	47.40	~240
1155	—	S	A	M	P	L	E	—
1210	6.39	2022	2.90	1.63	12.5	-12.3	97.44	~240

Purge Cycle (End): 24/6 seconds @ 30 psi
Flow Rate (ml/min End): ~240
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 53.85 (0.006) = ~0.32
Total Purge Volume (Gallons): ~2.0
Purge Water Management: O.W.S. On-Site
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge time: 1118
Sample Time: 1155
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923NOW8

Sampler Signature: Cell
Date: 04/19/23
Page 1 of 1

QA/QC Signature: M. Kuz
Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: sunny/windy, 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP CCR
Sampler(s): M. Knez
Well ID: OW-2A
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 14.10 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [x] Dedicated Bladder Pump
- [x] YSI ProDSS16E100132
- [ ] 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
1251	return from bathroom & change air tank							
1255	7.17	733	22.16	~~11.0~~ 0.4	11.0	-110.8	14.24	~300
1258	7.18	732	~~16.61~~ 50.0	0.37	11.0	-112.3	~~13.0~~ 14.31	~300
1301	7.18	733	50.01	0.29	10.9	-116.2	14.38	~300
1304	7.18	734	24.37	0.29	10.7	-117.4	14.25	~300
1307	7.17	730	10.94	0.37	11.4	-117.1	14.45	~300
1310	7.17	731	9.51	0.25	10.8	-117.3	14.25	~300
1315	—	—	—	SAMPLE	—	—	—	—
1327 ~~1327~~	7.13	739	6.30	0.29	11.0	-112.3	14.39	~300

Purge Cycle (End): 54/6 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): ~0.17
Total Purge Volume (Gallons): ~2.5
Purge Water Management: O.W.S. disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 1234
Sample Time: 1315
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: DTP: 27.76
Sample ID: 041923 NOW 2A

Sampler Signature: M. Knez Date: 4/19/23
QA/QC Signature: [signature] Date: 4/21/23

Page 1 of 1

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Magee
Well ID: OW-4A
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 14.22 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS 16K100510
- [ ] 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
1431	6.51	273.9	50.14	2.75	12.8	-8.9	14.25	~260
1436	6.73	~~278.6~~	25.47	1.29	12.7	-21.0	14.23	~260
1441	6.79	275.0	20.00	1.01	12.7	-31.5	14.23	~260
1446	6.78	272.3	7.42	0.90	12.7	-36.9	14.23	~260
1451	6.77	270.0	6.69	0.76	12.7	-41.7	14.23	~260
1455	—	S	A	M	P	L	E	—
1527	6.76	274.0	3.44	0.75	13.4	-52.7	14.23	~260

Purge Cycle (End): 26/4 seconds @ 20 psi
Flow Rate (ml/min End): ~260
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 28.15(0.006) = ~0.17
Total Purge Volume (Gallons): ~2.0
Purge Water Management: O.W.S. on-site
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge time: 1425
Sample Time: 1455
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: MS matrix spike/msd matrix spike Dup taken @ OW-4A
Sample ID: 041923NOW4A

Sampler Signature: [signature] Date: 04/19/23 Page 1 of 1
QA/QC Signature: M. Kuy Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/18/2023
Weather: Sunny/windy, 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP CCR
Sampler(s): M. Knez
Well ID: OW-10 (OW-10A)
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 13.68 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 16E100132
- [ ] 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
1148	6.26	681	21.47	2.14	12.6	7.9	13.75	~330
1151	6.31	673	24.19	1.68	12.4	-13.2	13.87	~330
1154	6.33	670	18.82	1.53	12.2	-24.0	13.75	~450
1157	6.34	669	13.37	1.43	12.0	-28.0	13.74	~450
1200	6.34	667	13.47	1.33	12.0	-30.9	13.78	~450
1203	6.34	665	11.17	1.24	11.9	-33.5	13.76	~450
1206	6.35	665	10.67	1.22	11.8	-35.5	13.85	~450
1209	6.35	662	9.58	1.10	11.7	-37.3	13.83	~458
1215	—	—	—	SAMPLE	—	—	—	—
1222	6.36	655	7.74	0.88	11.5	-42.7	13.75	~450

Purge Cycle (End): 13.5/6.5 seconds @ 20 psi
Flow Rate (ml/min End): ~450
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.11
Total Purge Volume (Gallons): ~4.0
Purge Water Management: O.W.S. Disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 1144
Sample Time: 1215
Field Filtered (0.45µm): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: DTP: 18.02'
Sample ID: 041923NOW10

Sampler Signature: M. Knez Date: 4/19/23
QA/QC Signature: [signature] Date: 4/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Meyer
Well ID: OW-12
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: BTOP feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI 3100 SS18K100510
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [ ] Dedicated Bladder Pump
- [x] 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
1545	5.73	699	6.37	0.85	13.8	25.2	BTOP	~200
1550	5.71	704	3.42	0.44	13.8	32.9	BTOP	~200
1555	5.72	717	2.82	0.33	13.8	36.5	BTOP	~200
1600	5.73	724	2.50	0.27	13.9	38.8	BTOP	~200
1605	—	S	A	M	P	L	E	—
1623	5.73	812	2.40	0.52	15.0	51.7	BTOP	~200

Purge Cycle (End): 26/4 seconds @ ~~20~~ ~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): —
Total Purge Volume (Gallons): ~~1.5~~ ~1.5
Purge Water Management: O.W.S. On-site
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge time: 1540

Sample Time: 1605
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923NOW12

Sampler Signature: [signature] Date: 04/19/23
QA/QC Signature: M. Kuy Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Meyer
Well ID: OW-13
Field Calibration Completed: 04/19/23 @ 0830
Well Diameter: 2.0 inches
Initial Depth to Water: 17.00 feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [ ] Turbidity Meter
- [ ] Air Tank
- [ ] Dedicated Bladder Pump
- [x] YSI PRODSS 18K100510
- [ ] 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
1226	6.26	890	57.19	0.44	11.5	-39.4	18.70	~200
1231	6.26	878	49.80	0.28	11.6	-44.3	18.70	~200
1236	6.26	871	51.66	0.18	11.7	-47.6	18.70	~200
1241	6.26	859	48.93	0.14	11.7	-50.9	18.70	~200
1246	6.27	838	41.39	0.12	11.8	-54.3	19.00	~200
1251	6.27	816	36.75	0.08	11.7	-55.6	19.20	~200
1256	6.26	780	59.03	0.13	11.7	-57.7	19.70	~200
1301	6.26	769	55.50	0.06	11.9	-59.0	19.70	~200
1306	6.26	752	57.83	0.05	12.0	-60.0	19.60	~200
1311	6.26	734	54.62	0.04	12.1	-60.9	19.60	~200
1316	6.26	711	41.35	0.03	12.2	-61.5	19.60	~200
1321	6.26	689	33.10	0.03	12.2	-61.8	~~19.58~~ 19.58	~200
1326	6.26	672	21.51	0.03	12.3	-62.1	19.60	~200
1331	6.26	663	19.90	0.03	12.2	-62.3	19.60	~200
1336	6.27	667	20.15	0.02	12.1	-62.8	19.60	~200
1340	—	S	A	M	P	L	E	—
1359	6.27	645	21.42	0.22	12.2	-63.1	19.65	~200

Purge Cycle (End): 24/6 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): —
Total Purge Volume (Gallons): ~6.5
Purge Water Management: O.W.S. On-site
Purge Observations (color, odor, turbidity, sheen): ~~Clear grade~~ Lt. tan grab sample
Purge time: 1216

Sample Time: 1340
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923NOW13

Sampler Signature: [signature] Date: 04/19/23
QA/QC Signature: M. Kurt Date: 04/21/23

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny, windy, 70's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Meyer
Well ID: Field Blank
Field Calibration Completed: 04/ /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
- [ ] Dedicated Bladder Pump
- [x] YSI —
- [ ] 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
1450	—	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: —
Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken near OW-4A
Purge time: W/ lab provided DI water
Sample Time: 1450
Field Filtered (0.45um): [ ] Yes [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923FBField Blank

Sampler Signature: [signature] Date: 04/19/2023 Page 1 of 1
QA/QC Signature: M. Kuy Date: 04/21/2023

MICROPURGE SAMPLING LOG

Date: 04/19/2023
Weather: Sunny 60s

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 LVWSP
Sampler(s): C. Magee
Well ID: Field Duplicate
Field Calibration Completed: 04/19/23 @ 0830
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~~
- [ ] 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
1050	—	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: —
Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken @ MW-7H
Purge time: —

Sample Time: 1050
Field Filtered (0.45um): [ ] Yes [x] ~~No~~

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS)
- [ ] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl],Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
- [ ] Variance (Diss [Be, Cd, Cr, Pb, Ni])
- [x] ~~LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)~~
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041923FDDuplicate

Sampler Signature: [signature] Date: 04/19/23
QA/QC Signature: M. Kurz Date: 04/21/23

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 5/30/2023 10:49:18 AM

JOB DESCRIPTION

MSPS-1SA2023-LVWSP CCR-D
SDG NUMBER LVWSP CCR Group D

JOB NUMBER

240-184000-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

Roxanne Cisneros

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5/30/2023 10:49:18 AM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-184000-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative
240-184000-1

Receipt
The samples were received on 4/21/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.5°C, 3.3°C and 5.3°C

Metals
Method 6020B: The continuing calibration verification (CCV) associated with batch 240-570845 recovered above the upper control limit for beryllium. The samples associated with this CCV were below the reported limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 041923NOW10 (240-184000-5), 041923NOW12 (240-184000-6), 041923NOW13 (240-184000-7), 041923FBFIELDBLANK (240-184000-8) and 041923FDDUPLICATE (240-184000-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter
Method 9315_Ra226: Radium-226 prep batch 160-609999: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.041923NOW7A (240-184000-1), 041923NOW8 (240-184000-2), 041923NOW2A (240-184000-3), 041923NOW4A (240-184000-4), 041923NOW4A (240-184000-4[MS]), 041923NOW4A (240-184000-4[MSD]), 041923NOW10 (240-184000-5), 041923NOW12 (240-184000-6), 041923NOW13 (240-184000-7), 041923FBFIELDBLANK (240-184000-8), 041923FDDUPLICATE (240-184000-9), (LCS 160-609999/2-A) and (MB 160-609999/1-A)

Method 9320_Ra228: Radium-228 batch 610015: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.041923NOW7A (240-184000-1), 041923NOW8 (240-184000-2), 041923NOW2A (240-184000-3), 041923NOW4A (240-184000-4), 041923NOW4A (240-184000-4[MS]), 041923NOW4A (240-184000-4[MSD]), 041923NOW10 (240-184000-5), 041923NOW12 (240-184000-6), 041923NOW13 (240-184000-7), 041923FBFIELDBLANK (240-184000-8), 041923FDDUPLICATE (240-184000-9), (LCS 160-610015/2-A) and (MB 160-610015/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-184000-1	041923NOW7A	Water	04/19/23 10:25	04/21/23 09:30
240-184000-2	041923NOW8	Water	04/19/23 11:55	04/21/23 09:30
240-184000-3	041923NOW2A	Water	04/19/23 13:15	04/21/23 09:30
240-184000-4	041923NOW4A	Water	04/19/23 14:55	04/21/23 09:30
240-184000-5	041923NOW10	Water	04/19/23 12:15	04/21/23 09:30
240-184000-6	041923NOW12	Water	04/19/23 16:05	04/21/23 09:30
240-184000-7	041923NOW13	Water	04/19/23 13:40	04/21/23 09:30
240-184000-8	041923FBFIELDBLANK	Water	04/19/23 14:50	04/21/23 09:30
240-184000-9	041923FDDUPLICATE	Water	04/19/23 10:50	04/21/23 09:30

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW7A — Lab Sample ID: 240-184000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	320		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	42000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	3.4		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	18	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	99		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.091		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	9.1		1.0	0.35	mg/L	1		9056A	Total/NA
Total Dissolved Solids	260		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923NOW8 — Lab Sample ID: 240-184000-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	83	J	100	57	ug/L	1		6010D	Total Recoverable
Barium	9.6		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	330000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	21		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	12	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	180		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.035	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	770		10	3.5	mg/L	10		9056A	Total/NA
Total Dissolved Solids	1600		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923NOW2A — Lab Sample ID: 240-184000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	81	J	100	57	ug/L	1		6010D	Total Recoverable
Barium	240		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	1.2		1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	120000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	3.6		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	9.1	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	3.4	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	130		1.0	0.35	mg/L	1		9056A	Total/NA
Total Dissolved Solids	460		10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW4A — Lab Sample ID: 240-184000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	100		5.0	2.2	ug/L	1		6020B	Total Recoverable
Beryllium	0.62	J	1.0	0.62	ug/L	1		6020B	Total Recoverable
Calcium	31000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.66	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	5.5	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.7	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Thallium	0.45	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	8.9		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.039	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	32		1.0	0.35	mg/L	1		9056A	Total/NA
Total Dissolved Solids	140		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923NOW10 — Lab Sample ID: 240-184000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	57	J	100	57	ug/L	1		6010D	Total Recoverable
Barium	390		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	64000		1000	250	ug/L	1		6020B	Total Recoverable
Chromium	1.7	J	5.0	1.2	ug/L	1		6020B	Total Recoverable
Cobalt	0.80	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	7.0	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	43		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	32		1.0	0.35	mg/L	1		9056A	Total/NA
Total Dissolved Solids	350		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923NOW12 — Lab Sample ID: 240-184000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	120		100	57	ug/L	1		6010D	Total Recoverable
Barium	90		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	0.51	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	120000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	68		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	4.3	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	210		10	1.3	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample ID: 041923NOW12 (Continued) — Lab Sample ID: 240-184000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	210		10	3.5	mg/L	10		9056A	Total/NA
Total Dissolved Solids	730		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923NOW13 — Lab Sample ID: 240-184000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	150		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	24000		1000	250	ug/L	1		6020B	Total Recoverable
Chromium	5.5		5.0	1.2	ug/L	1		6020B	Total Recoverable
Cobalt	4.0		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lead	0.80	J	1.0	0.45	ug/L	1		6020B	Total Recoverable
Lithium	4.9	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	25		1.0	0.13	mg/L	1		9056A	Total/NA
Total Dissolved Solids	560		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041923FBFIELDBLANK — Lab Sample ID: 240-184000-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	2.6	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable

Client Sample ID: 041923FDDUPLICATE — Lab Sample ID: 240-184000-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	320		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	42000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	3.1		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	19	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	96		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	8.6		1.0	0.35	mg/L	1		9056A	Total/NA
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 041923NOW7A

Date Collected: 04/19/23 10:25
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-1

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 06:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:11	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:11	1
Barium	**320**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:11	1
Beryllium	<0.62		1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:11	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:11	1
Calcium	**42000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:11	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:11	1
Cobalt	**3.4**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:11	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:11	1
Lithium	**18**	**B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:11	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:11	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:11	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**99**		1.0	0.13	mg/L			05/15/23 07:49	1
Fluoride (SW846 9056A)	**0.091**		0.050	0.024	mg/L			05/15/23 07:49	1
Sulfate (SW846 9056A)	**9.1**		1.0	0.35	mg/L			05/15/23 07:49	1
Total Dissolved Solids (SM 2540C)	**260**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.140	U	0.112	0.113	1.00	0.165	pCi/L	05/03/23 12:59	05/25/23 16:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:12*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.192	U	0.300	0.301	1.00	0.511	pCi/L	05/03/23 15:17	05/22/23 16:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*
Y Carrier	*81.9*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW7A
Date Collected: 04/19/23 10:25
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-1
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.332	U	0.320	0.322	5.00	0.511	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW8

Date Collected: 04/19/23 11:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**83**	**J**	100	57	ug/L		04/24/23 14:00	04/26/23 06:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:13	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:13	1
Barium	**9.6**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:13	1
Beryllium	<0.62		1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:13	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:13	1
Calcium	**330000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:13	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:13	1
Cobalt	**21**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:13	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:13	1
Lithium	**12**	**B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:13	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:13	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:13	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**180**		1.0	0.13	mg/L			05/15/23 08:10	1
Fluoride (SW846 9056A)	**0.035**	**J**	0.050	0.024	mg/L			05/15/23 08:10	1
Sulfate (SW846 9056A)	**770**		10	3.5	mg/L			05/15/23 08:32	10
Total Dissolved Solids (SM 2540C)	**1600**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.0827	0.0828	1.00	0.148	pCi/L	05/03/23 12:59	05/25/23 16:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:12*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.561	U	0.426	0.429	1.00	0.661	pCi/L	05/03/23 15:17	05/22/23 16:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*
Y Carrier	*76.6*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW8
Date Collected: 04/19/23 11:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-2
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.607	U	0.434	0.437	5.00	0.661	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW2A

Date Collected: 04/19/23 13:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-3

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**81**	**J**	100	57	ug/L		04/24/23 14:00	04/26/23 06:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:16	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:16	1
Barium	**240**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:16	1
Beryllium	<0.62		1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:16	1
Cadmium	**1.2**		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:16	1
Calcium	**120000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:16	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:16	1
Cobalt	**3.6**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:16	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:16	1
Lithium	**9.1**	**B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:16	1
Molybdenum	**3.4**	**J**	5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:16	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:16	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**17**		1.0	0.13	mg/L			05/15/23 08:54	1
Fluoride (SW846 9056A)	**0.19**		0.050	0.024	mg/L			05/15/23 08:54	1
Sulfate (SW846 9056A)	**130**		1.0	0.35	mg/L			05/15/23 08:54	1
Total Dissolved Solids (SM 2540C)	**460**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.367**		0.154	0.158	1.00	0.153	pCi/L	05/03/23 12:59	05/25/23 16:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:12*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365	U	0.353	0.355	1.00	0.565	pCi/L	05/03/23 15:17	05/22/23 16:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*
Y Carrier	*84.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:06*	*1*

Client Sample ID: 041923NOW2A
Date Collected: 04/19/23 13:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-3
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.732		0.385	0.389	5.00	0.565	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW4A

Date Collected: 04/19/23 14:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 05:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 17:26	1
Arsenic	**1.3**	**J**	5.0	0.75	ug/L		04/24/23 14:00	04/25/23 17:26	1
Barium	**100**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 17:26	1
Beryllium	**0.62**	**J**	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 17:26	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 17:26	1
Calcium	**31000**		1000	250	ug/L		04/24/23 14:00	04/25/23 17:26	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 17:26	1
Cobalt	**0.66**	**J**	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 17:26	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 17:26	1
Lithium	**5.5**	**J B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 17:26	1
Molybdenum	**1.7**	**J**	5.0	1.1	ug/L		04/24/23 14:00	04/25/23 17:26	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 17:26	1
Thallium	**0.45**	**J**	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 17:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13	F1	0.20	0.13	ug/L		04/24/23 14:00	04/25/23 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**8.9**		1.0	0.13	mg/L			05/15/23 06:43	1
Fluoride (SW846 9056A)	**0.039**	**J**	0.050	0.024	mg/L			05/15/23 06:43	1
Sulfate (SW846 9056A)	**32**		1.0	0.35	mg/L			05/15/23 06:43	1
Total Dissolved Solids (SM 2540C)	**140**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0272	U	0.103	0.103	1.00	0.193	pCi/L	05/03/23 12:59	05/25/23 16:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:13*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.556**		0.356	0.360	1.00	0.528	pCi/L	05/03/23 15:17	05/22/23 16:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:07*	*1*
Y Carrier	*81.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:07*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW4A
Date Collected: 04/19/23 14:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-4
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.583		0.371	0.374	5.00	0.528	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW10

Date Collected: 04/19/23 12:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-5

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**57**	**J**	100	57	ug/L		04/24/23 14:00	04/26/23 06:43	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:24	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:24	1
Barium	**390**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:24	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:24	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:24	1
Calcium	**64000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:24	1
Chromium	**1.7**	**J**	5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:24	1
Cobalt	**0.80**	**J**	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:24	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:24	1
Lithium	**7.0**	**J B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:24	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:24	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:24	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**43**		1.0	0.13	mg/L			05/15/23 10:21	1
Fluoride (SW846 9056A)	**0.11**		0.050	0.024	mg/L			05/15/23 10:21	1
Sulfate (SW846 9056A)	**32**		1.0	0.35	mg/L			05/15/23 10:21	1
Total Dissolved Solids (SM 2540C)	**350**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.424**		0.219	0.222	1.00	0.280	pCi/L	05/03/23 12:59	05/25/23 16:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:13*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.66**		0.696	0.713	1.00	0.932	pCi/L	05/03/23 15:17	05/22/23 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*
Y Carrier	*75.1*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*

Client Sample ID: 041923NOW10
Date Collected: 04/19/23 12:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-5
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.08		0.730	0.747	5.00	0.932	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW12

Date Collected: 04/19/23 16:05
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**120**		100	57	ug/L		04/24/23 14:00	04/26/23 06:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:26	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:26	1
Barium	**90**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:26	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:26	1
Cadmium	**0.51**	**J**	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:26	1
Calcium	**120000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:26	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:26	1
Cobalt	**68**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:26	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:26	1
Lithium	**4.3**	**J B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:26	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:26	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:26	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**210**		10	1.3	mg/L			05/15/23 11:05	10
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 10:43	1
Sulfate (SW846 9056A)	**210**		10	3.5	mg/L			05/15/23 11:05	10
Total Dissolved Solids (SM 2540C)	**730**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211	U	0.156	0.157	1.00	0.230	pCi/L	05/03/23 12:59	05/25/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:14*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.777**		0.390	0.396	1.00	0.527	pCi/L	05/03/23 15:17	05/22/23 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*
Y Carrier	*80.4*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*

Client Sample ID: 041923NOW12
Date Collected: 04/19/23 16:05
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-6
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.988		0.420	0.426	5.00	0.527	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923NOW13

Date Collected: 04/19/23 13:40
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-7

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 06:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:29	1
Arsenic	**4.6**	**J**	5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:29	1
Barium	**150**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:29	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:29	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:29	1
Calcium	**24000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:29	1
Chromium	**5.5**		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:29	1
Cobalt	**4.0**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:29	1
Lead	**0.80**	**J**	1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:29	1
Lithium	**4.9**	**J B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:29	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:29	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:29	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**25**		1.0	0.13	mg/L			05/15/23 11:26	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 11:26	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			05/15/23 11:26	1
Total Dissolved Solids (SM 2540C)	**560**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.250**		0.164	0.165	1.00	0.222	pCi/L	05/03/23 12:59	05/25/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:14*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.630	U	0.495	0.498	1.00	0.768	pCi/L	05/03/23 15:17	05/22/23 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*
Y Carrier	*78.9*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*

Client Sample ID: 041923NOW13
Date Collected: 04/19/23 13:40
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-7
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.880		0.521	0.525	5.00	0.768	pCi/L		05/26/23 14:30	1

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923FBFIELDBLANK

Date Collected: 04/19/23 14:50
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-8

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 06:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:32	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:32	1
Barium	<2.2		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:32	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:32	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:32	1
Calcium	<250		1000	250	ug/L		04/24/23 14:00	04/25/23 18:32	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:32	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:32	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:32	1
Lithium	**2.6**	**J B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:32	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:32	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:32	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	<0.13		1.0	0.13	mg/L			05/15/23 11:48	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 11:48	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			05/15/23 11:48	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0574	U	0.0597	0.0599	1.00	0.168	pCi/L	05/03/23 12:59	05/25/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:14*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.212	U	0.344	0.345	1.00	0.588	pCi/L	05/03/23 15:17	05/22/23 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*
Y Carrier	*76.3*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923FBFIELDBLANK
Date Collected: 04/19/23 14:50
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-8
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.212	U	0.349	0.350	5.00	0.588	pCi/L		05/26/23 14:30	1

Client Sample ID: 041923FDDUPLICATE

Date Collected: 04/19/23 10:50
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-9

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 07:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:35	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:35	1
Barium	**320**		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:35	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:35	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:35	1
Calcium	**42000**		1000	250	ug/L		04/24/23 14:00	04/25/23 18:35	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:35	1
Cobalt	**3.1**		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:35	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:35	1
Lithium	**19**	**B**	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:35	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:35	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:35	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	**96**		1.0	0.13	mg/L			05/15/23 12:10	1
Fluoride (SW846 9056A)	**0.11**		0.050	0.024	mg/L			05/15/23 12:10	1
Sulfate (SW846 9056A)	**8.6**		1.0	0.35	mg/L			05/15/23 12:10	1
Total Dissolved Solids (SM 2540C)	**270**		10	10	mg/L			04/26/23 21:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.246**		0.126	0.128	1.00	0.148	pCi/L	05/03/23 12:59	05/25/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:14*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.457**		0.308	0.311	1.00	0.457	pCi/L	05/03/23 15:17	05/22/23 16:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*
Y Carrier	*87.1*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:08*	*1*

Client Sample ID: 041923FDDUPLICATE

Date Collected: 04/19/23 10:50
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-9

Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.702		0.333	0.336	5.00	0.457	pCi/L		05/26/23 14:30	1

Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
240-184000-1	041923NOW7A	94.2
240-184000-2	041923NOW8	89.5
240-184000-3	041923NOW2A	79.3
240-184000-4	041923NOW4A	92.0
240-184000-4 MS	041923NOW4A	90.8
240-184000-4 MSD	041923NOW4A	88.6
240-184000-5	041923NOW10	81.5
240-184000-6	041923NOW12	82.2
240-184000-7	041923NOW13	88.8
240-184000-8	041923FBFIELDBLANK	85.6
240-184000-9	041923FDDUPLICATE	91.5
LCS 160-609999/2-A	Lab Control Sample	89.8
MB 160-609999/1-A	Method Blank	91.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
240-184000-1	041923NOW7A	94.2	81.9
240-184000-2	041923NOW8	89.5	76.6
240-184000-3	041923NOW2A	79.3	84.5
240-184000-4	041923NOW4A	92.0	81.5
240-184000-4 MS	041923NOW4A	90.8	73.3
240-184000-4 MSD	041923NOW4A	88.6	79.3
240-184000-5	041923NOW10	81.5	75.1
240-184000-6	041923NOW12	82.2	80.4
240-184000-7	041923NOW13	88.8	78.9
240-184000-8	041923FBFIELDBLANK	85.6	76.3
240-184000-9	041923FDDUPLICATE	91.5	87.1
LCS 160-610015/2-A	Lab Control Sample	89.8	83.0
MB 160-610015/1-A	Method Blank	91.5	78.1

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-570584/1-A
Matrix: Water
Analysis Batch: 570858

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/26/23 05:02	1

Lab Sample ID: LCS 240-570584/2-A
Matrix: Water
Analysis Batch: 570858

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 570858

Client Sample ID: 041923NOW4A
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	1080		ug/L		108	75 - 125

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 570858

Client Sample ID: 041923NOW4A
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<57		1000	1080		ug/L		108	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-570584/1-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 17:20	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 17:20	1
Barium	<2.2		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 17:20	1
Beryllium	<0.62		1.0	0.62	ug/L		04/24/23 14:00	04/25/23 17:20	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 17:20	1
Calcium	<250		1000	250	ug/L		04/24/23 14:00	04/25/23 17:20	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 17:20	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 17:20	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 17:20	1
Lithium	2.68	J	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 17:20	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 17:20	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 17:20	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 17:20	1

Lab Sample ID: LCS 240-570584/27-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	98.7		ug/L		99	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-570584/27-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	927		ug/L		93	80 - 120
Barium	1000	940		ug/L		94	80 - 120
Beryllium	500	516		ug/L		103	80 - 120
Cadmium	500	471		ug/L		94	80 - 120
Calcium	25000	22700		ug/L		91	80 - 120
Chromium	500	482		ug/L		96	80 - 120
Cobalt	500	457		ug/L		91	80 - 120
Lead	500	461		ug/L		92	80 - 120
Lithium	500	483		ug/L		97	80 - 120
Molybdenum	500	464		ug/L		93	80 - 120
Selenium	1000	943		ug/L		94	80 - 120
Thallium	1000	941		ug/L		94	80 - 120

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041923NOW4A
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	97.8		ug/L		98	80 - 120
Arsenic	1.3	J	1000	950		ug/L		95	80 - 120
Barium	100		1000	1050		ug/L		95	80 - 120
Beryllium	0.62	J	500	534		ug/L		107	80 - 120
Cadmium	<0.20		500	478		ug/L		96	80 - 120
Calcium	31000		25000	54800		ug/L		93	80 - 120
Chromium	<1.2		500	486		ug/L		97	80 - 120
Cobalt	0.66	J	500	468		ug/L		94	80 - 120
Lead	<0.45		500	471		ug/L		94	80 - 120
Lithium	5.5	J B	500	502		ug/L		99	80 - 120
Molybdenum	1.7	J	500	484		ug/L		96	80 - 120
Selenium	<0.89		1000	958		ug/L		96	80 - 120
Thallium	0.45	J	1000	957		ug/L		96	80 - 120

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041923NOW4A
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.57		100	103		ug/L		103	80 - 120	6	20
Arsenic	1.3	J	1000	951		ug/L		95	80 - 120	0	20
Barium	100		1000	1080		ug/L		98	80 - 120	2	20
Beryllium	0.62	J	500	530		ug/L		106	80 - 120	1	20
Cadmium	<0.20		500	485		ug/L		97	80 - 120	1	20
Calcium	31000		25000	54400		ug/L		92	80 - 120	1	20
Chromium	<1.2		500	489		ug/L		98	80 - 120	1	20
Cobalt	0.66	J	500	466		ug/L		93	80 - 120	0	20
Lead	<0.45		500	476		ug/L		95	80 - 120	1	20
Lithium	5.5	J B	500	495		ug/L		98	80 - 120	1	20
Molybdenum	1.7	J	500	484		ug/L		97	80 - 120	0	20
Selenium	<0.89		1000	952		ug/L		95	80 - 120	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041923NOW4A
Prep Type: Total Recoverable
Prep Batch: 570584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.45	J	1000	967		ug/L		97	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-570587/1-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 13:53	1

Lab Sample ID: LCS 240-570587/2-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.44		ug/L		89	80 - 120

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 570815

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 570587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13	F1	1.00	0.907		ug/L		91	80 - 120

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 570815

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 570587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13	F1	1.00	0.762	F1	ug/L		76	80 - 120	17	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-573228/3
Matrix: Water
Analysis Batch: 573228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			05/15/23 06:00	1
Fluoride	<0.024		0.050	0.024	mg/L			05/15/23 06:00	1
Sulfate	<0.35		1.0	0.35	mg/L			05/15/23 06:00	1

Lab Sample ID: LCS 240-573228/4
Matrix: Water
Analysis Batch: 573228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Fluoride	2.50	2.56		mg/L		102	90 - 110
Sulfate	50.0	51.2		mg/L		102	90 - 110

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 573228

Client Sample ID: 041923NOW4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.9		50.0	60.8		mg/L		104	80 - 120
Fluoride	0.039	J	2.50	2.74		mg/L		108	80 - 120
Sulfate	32		50.0	84.6		mg/L		106	80 - 120

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 573228

Client Sample ID: 041923NOW4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.9		50.0	61.6		mg/L		105	80 - 120	1	15
Fluoride	0.039	J	2.50	2.81		mg/L		111	80 - 120	3	15
Sulfate	32		50.0	85.3		mg/L		107	80 - 120	1	15

Lab Sample ID: 240-184000-9 MS
Matrix: Water
Analysis Batch: 573228

Client Sample ID: 041923FDDUPLICATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	96		50.0	145		mg/L		97	80 - 120
Fluoride	0.11		2.50	2.89		mg/L		111	80 - 120
Sulfate	8.6		50.0	63.0		mg/L		109	80 - 120

Lab Sample ID: 240-184000-9 MSD
Matrix: Water
Analysis Batch: 573228

Client Sample ID: 041923FDDUPLICATE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	96		50.0	144		mg/L		97	80 - 120	0	15
Fluoride	0.11		2.50	2.91		mg/L		112	80 - 120	0	15
Sulfate	8.6		50.0	62.8		mg/L		108	80 - 120	0	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-433502/1
Matrix: Water
Analysis Batch: 433502

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/26/23 21:09	1

Lab Sample ID: LCS 180-433502/2
Matrix: Water
Analysis Batch: 433502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	564		mg/L		97	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-155407-B-1 DU
Matrix: Water
Analysis Batch: 433502

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	470			476		mg/L				0.6	10

Lab Sample ID: 180-155438-A-4 DU
Matrix: Water
Analysis Batch: 433502

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1800			1800		mg/L				0.2	10

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-609999/1-A
Matrix: Water
Analysis Batch: 613103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609999

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03578	U	0.0768	0.0768	1.00	0.141	pCi/L	05/03/23 12:59	05/25/23 16:09	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*05/03/23 12:59*	*05/25/23 16:09*	*1*

Lab Sample ID: LCS 160-609999/2-A
Matrix: Water
Analysis Batch: 613103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609999

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.69		1.19	1.00	0.214	pCi/L	94	75 - 113		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 613104

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 609999

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.0272	U	11.4	10.25		1.16	1.00	0.195	pCi/L	90	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*90.8*		*30 - 110*

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 613104

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 609999

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.0272	U	11.3	11.07		1.24	1.00	0.198	pCi/L	97	60 - 140	0.34	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*88.6*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-610015/1-A
Matrix: Water
Analysis Batch: 612492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610015

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2276	U	0.273	0.273	1.00	0.573	pCi/L	05/03/23 15:17	05/22/23 16:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:05*	*1*
Y Carrier	*78.1*		*30 - 110*	*05/03/23 15:17*	*05/22/23 16:05*	*1*

Lab Sample ID: LCS 160-610015/2-A
Matrix: Water
Analysis Batch: 612492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610015

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.18	6.968		1.03	1.00	0.467	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*89.8*		*30 - 110*
Y Carrier	*83.0*		*30 - 110*

Lab Sample ID: 240-184000-4 MS
Matrix: Water
Analysis Batch: 612492

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 610015

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.556		8.20	8.720		1.25	1.00	0.548	pCi/L	100	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*90.8*		*30 - 110*
Y Carrier	*73.3*		*30 - 110*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-184000-4 MSD
Matrix: Water
Analysis Batch: 612492

Client Sample ID: 041923NOW4A
Prep Type: Total/NA
Prep Batch: 610015

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.556		8.19	9.225		1.29	1.00	0.558	pCi/L	106	60 - 140	0.20	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*88.6*		*30 - 110*
Y Carrier	*79.3*		*30 - 110*

Metals

Prep Batch: 570584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total Recoverable	Water	3005A	
240-184000-2	041923NOW8	Total Recoverable	Water	3005A	
240-184000-3	041923NOW2A	Total Recoverable	Water	3005A	
240-184000-4	041923NOW4A	Total Recoverable	Water	3005A	
240-184000-5	041923NOW10	Total Recoverable	Water	3005A	
240-184000-6	041923NOW12	Total Recoverable	Water	3005A	
240-184000-7	041923NOW13	Total Recoverable	Water	3005A	
240-184000-8	041923FBFIELDBLANK	Total Recoverable	Water	3005A	
240-184000-9	041923FDDUPLICATE	Total Recoverable	Water	3005A	
MB 240-570584/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-570584/27-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-570584/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-184000-4 MS	041923NOW4A	Total Recoverable	Water	3005A	
240-184000-4 MS	041923NOW4A	Total Recoverable	Water	3005A	
240-184000-4 MSD	041923NOW4A	Total Recoverable	Water	3005A	
240-184000-4 MSD	041923NOW4A	Total Recoverable	Water	3005A	

Prep Batch: 570587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	7470A	
240-184000-2	041923NOW8	Total/NA	Water	7470A	
240-184000-3	041923NOW2A	Total/NA	Water	7470A	
240-184000-4	041923NOW4A	Total/NA	Water	7470A	
240-184000-5	041923NOW10	Total/NA	Water	7470A	
240-184000-6	041923NOW12	Total/NA	Water	7470A	
240-184000-7	041923NOW13	Total/NA	Water	7470A	
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	7470A	
240-184000-9	041923FDDUPLICATE	Total/NA	Water	7470A	
MB 240-570587/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-570587/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-184000-4 MS	041923NOW4A	Total/NA	Water	7470A	
240-184000-4 MSD	041923NOW4A	Total/NA	Water	7470A	

Analysis Batch: 570815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	7470A	570587
240-184000-2	041923NOW8	Total/NA	Water	7470A	570587
240-184000-3	041923NOW2A	Total/NA	Water	7470A	570587
240-184000-4	041923NOW4A	Total/NA	Water	7470A	570587
240-184000-5	041923NOW10	Total/NA	Water	7470A	570587
240-184000-6	041923NOW12	Total/NA	Water	7470A	570587
240-184000-7	041923NOW13	Total/NA	Water	7470A	570587
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	7470A	570587
240-184000-9	041923FDDUPLICATE	Total/NA	Water	7470A	570587
MB 240-570587/1-A	Method Blank	Total/NA	Water	7470A	570587
LCS 240-570587/2-A	Lab Control Sample	Total/NA	Water	7470A	570587
240-184000-4 MS	041923NOW4A	Total/NA	Water	7470A	570587
240-184000-4 MSD	041923NOW4A	Total/NA	Water	7470A	570587

Metals

Analysis Batch: 570845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total Recoverable	Water	6020B	570584
240-184000-2	041923NOW8	Total Recoverable	Water	6020B	570584
240-184000-3	041923NOW2A	Total Recoverable	Water	6020B	570584
240-184000-4	041923NOW4A	Total Recoverable	Water	6020B	570584
240-184000-5	041923NOW10	Total Recoverable	Water	6020B	570584
240-184000-6	041923NOW12	Total Recoverable	Water	6020B	570584
240-184000-7	041923NOW13	Total Recoverable	Water	6020B	570584
240-184000-8	041923FBFIELDBLANK	Total Recoverable	Water	6020B	570584
240-184000-9	041923FDDUPLICATE	Total Recoverable	Water	6020B	570584
MB 240-570584/1-A	Method Blank	Total Recoverable	Water	6020B	570584
LCS 240-570584/27-A	Lab Control Sample	Total Recoverable	Water	6020B	570584
240-184000-4 MS	041923NOW4A	Total Recoverable	Water	6020B	570584
240-184000-4 MSD	041923NOW4A	Total Recoverable	Water	6020B	570584

Analysis Batch: 570858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total Recoverable	Water	6010D	570584
240-184000-2	041923NOW8	Total Recoverable	Water	6010D	570584
240-184000-3	041923NOW2A	Total Recoverable	Water	6010D	570584
240-184000-4	041923NOW4A	Total Recoverable	Water	6010D	570584
240-184000-5	041923NOW10	Total Recoverable	Water	6010D	570584
240-184000-6	041923NOW12	Total Recoverable	Water	6010D	570584
240-184000-7	041923NOW13	Total Recoverable	Water	6010D	570584
240-184000-8	041923FBFIELDBLANK	Total Recoverable	Water	6010D	570584
240-184000-9	041923FDDUPLICATE	Total Recoverable	Water	6010D	570584
MB 240-570584/1-A	Method Blank	Total Recoverable	Water	6010D	570584
LCS 240-570584/2-A	Lab Control Sample	Total Recoverable	Water	6010D	570584
240-184000-4 MS	041923NOW4A	Total Recoverable	Water	6010D	570584
240-184000-4 MSD	041923NOW4A	Total Recoverable	Water	6010D	570584

General Chemistry

Analysis Batch: 433502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	SM 2540C	
240-184000-2	041923NOW8	Total/NA	Water	SM 2540C	
240-184000-3	041923NOW2A	Total/NA	Water	SM 2540C	
240-184000-4	041923NOW4A	Total/NA	Water	SM 2540C	
240-184000-5	041923NOW10	Total/NA	Water	SM 2540C	
240-184000-6	041923NOW12	Total/NA	Water	SM 2540C	
240-184000-7	041923NOW13	Total/NA	Water	SM 2540C	
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	SM 2540C	
240-184000-9	041923FDDUPLICATE	Total/NA	Water	SM 2540C	
MB 180-433502/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433502/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-155407-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	
180-155438-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 573228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	9056A	

General Chemistry (Continued)

Analysis Batch: 573228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-2	041923NOW8	Total/NA	Water	9056A	
240-184000-2	041923NOW8	Total/NA	Water	9056A	
240-184000-3	041923NOW2A	Total/NA	Water	9056A	
240-184000-4	041923NOW4A	Total/NA	Water	9056A	
240-184000-5	041923NOW10	Total/NA	Water	9056A	
240-184000-6	041923NOW12	Total/NA	Water	9056A	
240-184000-6	041923NOW12	Total/NA	Water	9056A	
240-184000-7	041923NOW13	Total/NA	Water	9056A	
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	9056A	
240-184000-9	041923FDDUPLICATE	Total/NA	Water	9056A	
MB 240-573228/3	Method Blank	Total/NA	Water	9056A	
LCS 240-573228/4	Lab Control Sample	Total/NA	Water	9056A	
240-184000-4 MS	041923NOW4A	Total/NA	Water	9056A	
240-184000-4 MSD	041923NOW4A	Total/NA	Water	9056A	
240-184000-9 MS	041923FDDUPLICATE	Total/NA	Water	9056A	
240-184000-9 MSD	041923FDDUPLICATE	Total/NA	Water	9056A	

Rad

Prep Batch: 609999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	PrecSep-21	
240-184000-2	041923NOW8	Total/NA	Water	PrecSep-21	
240-184000-3	041923NOW2A	Total/NA	Water	PrecSep-21	
240-184000-4	041923NOW4A	Total/NA	Water	PrecSep-21	
240-184000-5	041923NOW10	Total/NA	Water	PrecSep-21	
240-184000-6	041923NOW12	Total/NA	Water	PrecSep-21	
240-184000-7	041923NOW13	Total/NA	Water	PrecSep-21	
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	PrecSep-21	
240-184000-9	041923FDDUPLICATE	Total/NA	Water	PrecSep-21	
MB 160-609999/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-609999/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-184000-4 MS	041923NOW4A	Total/NA	Water	PrecSep-21	
240-184000-4 MSD	041923NOW4A	Total/NA	Water	PrecSep-21	

Prep Batch: 610015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-184000-1	041923NOW7A	Total/NA	Water	PrecSep_0	
240-184000-2	041923NOW8	Total/NA	Water	PrecSep_0	
240-184000-3	041923NOW2A	Total/NA	Water	PrecSep_0	
240-184000-4	041923NOW4A	Total/NA	Water	PrecSep_0	
240-184000-5	041923NOW10	Total/NA	Water	PrecSep_0	
240-184000-6	041923NOW12	Total/NA	Water	PrecSep_0	
240-184000-7	041923NOW13	Total/NA	Water	PrecSep_0	
240-184000-8	041923FBFIELDBLANK	Total/NA	Water	PrecSep_0	
240-184000-9	041923FDDUPLICATE	Total/NA	Water	PrecSep_0	
MB 160-610015/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-610015/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-184000-4 MS	041923NOW4A	Total/NA	Water	PrecSep_0	
240-184000-4 MSD	041923NOW4A	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW7A
Date Collected: 04/19/23 10:25
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:22
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:11
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:29
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 07:49
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613103	SCB	EET SL	05/25/23 16:12
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW8
Date Collected: 04/19/23 11:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:26
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:13
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:31
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 08:10
Total/NA	Analysis	9056A		10	573228	JWW	EET CLE	05/15/23 08:32
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613103	SCB	EET SL	05/25/23 16:12
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW2A
Date Collected: 04/19/23 13:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:31
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:16

Client Sample ID: 041923NOW2A
Date Collected: 04/19/23 13:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:33
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 08:54
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613103	SCB	EET SL	05/25/23 16:12
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW4A
Date Collected: 04/19/23 14:55
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 05:10
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 17:26
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 13:57
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 06:43
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:13
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW10
Date Collected: 04/19/23 12:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:43
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:24
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:35
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 10:21
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:13

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923NOW10
Date Collected: 04/19/23 12:15
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW12
Date Collected: 04/19/23 16:05
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:48
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:26
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:37
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 10:43
Total/NA	Analysis	9056A		10	573228	JWW	EET CLE	05/15/23 11:05
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:14
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923NOW13
Date Collected: 04/19/23 13:40
Date Received: 04/21/23 09:30

Lab Sample ID: 240-184000-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:52
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:29
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:44
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 11:26
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:14
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Client Sample ID: 041923FBFIELDBLANK

Lab Sample ID: 240-184000-8

Date Collected: 04/19/23 14:50
Matrix: Water
Date Received: 04/21/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 06:57
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:32
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:46
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 11:48
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:14
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Client Sample ID: 041923FDDUPLICATE

Lab Sample ID: 240-184000-9

Date Collected: 04/19/23 10:50
Matrix: Water
Date Received: 04/21/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	570858	KLC	EET CLE	04/26/23 07:01
Total Recoverable	Prep	3005A			570584	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:35
Total/NA	Prep	7470A			570587	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 14:48
Total/NA	Analysis	9056A		1	573228	JWW	EET CLE	05/15/23 12:10
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09
Total/NA	Prep	PrecSep-21			609999	KAC	EET SL	05/03/23 12:59
Total/NA	Analysis	9315		1	613104	SCB	EET SL	05/25/23 16:14
Total/NA	Prep	PrecSep_0			610015	KAC	EET SL	05/03/23 15:17
Total/NA	Analysis	9320		1	612492	FLC	EET SL	05/22/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613378	CAH	EET SL	05/26/23 14:30

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-LVWSP CCR-D

Job ID: 240-184000-1
SDG: LVWSP CCR Group D

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	05-03-23

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	10-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

FedEx #:
5903 0982 9259
5903 0982 9260

eurofins | Environment Testing

Client Information			
Client Contact: ~~Rachel Powell~~ Crystal Shadle	Sampler: C. Megee, M. Knez	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 5903 0982 9270
Company: WSP USA Inc	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: WV
Address: 2108 W Laburnum Ave, Suite 200	PWSID:	COC No: 240-106416-34712.1	Page: Page 1 of 2
City: Richmond	Due Date Requested:	Job #:	
State, Zip: VA, 23227	TAT Requested (days): STANDARD TAT		
Phone: 267-978-5151	Compliance Project: ☒ Yes Δ No		
Email: ~~rachel_powell@golder.com~~ crystal.shadle@wsp.com	PO #: 50168481		
Project Name: Mount Storm Power Station	WO #: ~~2019993622~~ 31406066.005		
Site:	Project #: 24021758		
	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9316_Ra226, 9320_Ra228	2540C_Calcd - TDS	6010C, 6020A, 7470A	9056A_28D - Anions Chloride, Fluoride, Sulfate	pH SU (field)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	N	D	N		X	
0419 23NOW7A	04/19/23	1025	G	Water			X	X	X	X	5.97	5	
0419 23NOW8	04/19/23	1155	G	Water			X	X	X	X	6.39	5	
0419 23NOW2A	04/19/23	1315	G	Water			X	X	X	X	7.17	5	
0419 23NOW4A	04/19/23	~~6.77~~ 1455	G	Water		X	X	X	X	X	6.97	5	~~MS~~ Matrix Spike/ MSD Matrix Spike Dup taken @ MW-4A
0419 23NOW10	04/19/23	1215	G	Water			X	X	X	X	~~[illegible]~~ 6.35	5	
0419 23NOW12	04/19/23	1605	G	Water			X	X	X	X	5.77	5	
0419 23NOW13	04/19/23	1340	G	Water			X	X	X	X	6.27	5	
0419 23FBField Blank	04/19/23	1450	G	Water			X	X	X	X		5	
0419 23FDDuplicate	04/19/23	1050	G	Water			X	X	X	X		5	
~~23MSMatrixSpike~~				Water								5	
~~23MSDMatrixSpikeDup~~				Water								5	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

All Samples preserved on ice

Special Instructions/Note:

Virginia Beach 2023

240-184000 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, (IV) Other (specify) Level IV Data Package

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: [signature]	Date/Time: 04/20/23 @ 0800	Company: WSP		Received by: [signature] M. Smith		Date/Time: 04-21-23 930	Company: EETN
Relinquished by:	Date/Time:	Company:		Received by:		Date/Time:	Company:
Relinquished by:	Date/Time:	Company:		Received by:		Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:			

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client WSP USA Inc Site Name _____ Cooler unpacked by: Leah M. Smith

Cooler Received on 04-21-23 Opened on 04-22-23

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	Yes	No (NA)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	(Y)	(Y) (Y)
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	(Yes)	No NA pH Strip Lot# **HC203864**
14. Were VOAs on the COC?	Yes	(No)
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No (NA)
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservative Added (mls)	Lot #
041923NOW7A	240-184000-C-1	Plastic 500ml - with Nitric Acid	<2			
041923NOW7A	240-184000-D-1	Plastic 1 liter - Nitric Acid	<2			
041923NOW7A	240-184000-E-1	Plastic 1 liter - Nitric Acid	<2			
041923NOW8	240-184000-C-2	Plastic 500ml - with Nitric Acid	<2			
041923NOW8	240-184000-D-2	Plastic 1 liter - Nitric Acid	<2			
041923NOW8	240-184000-E-2	Plastic 1 liter - Nitric Acid	<2			
041923NOW2A	240-184000-C-3	Plastic 500ml - with Nitric Acid	<2			
041923NOW2A	240-184000-D-3	Plastic 1 liter - Nitric Acid	<2			
041923NOW2A	240-184000-E-3	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-G-4	Plastic 500ml - with Nitric Acid	<2			
041923NOW4A	240-184000-H-4	Plastic 500ml - with Nitric Acid	<2			
041923NOW4A	240-184000-I-4	Plastic 500ml - with Nitric Acid	<2			
041923NOW4A	240-184000-J-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-K-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-L-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-M-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-N-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW4A	240-184000-O-4	Plastic 1 liter - Nitric Acid	<2			
041923NOW10	240-184000-C-5	Plastic 500ml - with Nitric Acid	<2			
041923NOW10	240-184000-D-5	Plastic 1 liter - Nitric Acid	<2			
041923NOW10	240-184000-E-5	Plastic 1 liter - Nitric Acid	<2			
041923NOW12	240-184000-C-6	Plastic 500ml - with Nitric Acid	<2			
041923NOW12	240-184000-D-6	Plastic 1 liter - Nitric Acid	<2			
041923NOW12	240-184000-E-6	Plastic 1 liter - Nitric Acid	<2			
041923NOW13	240-184000-C-7	Plastic 500ml - with Nitric Acid	<2			
041923NOW13	240-184000-D-7	Plastic 1 liter - Nitric Acid	<2			
041923NOW13	240-184000-E-7	Plastic 1 liter - Nitric Acid	<2			
041923FBFIELD BLANK	240-184000-C-8	Plastic 500ml - with Nitric Acid	<2			
041923FBFIELD BLANK	240-184000-D-8	Plastic 1 liter - Nitric Acid	<2			
041923FBFIELD BLANK	240-184000-E-8	Plastic 1 liter - Nitric Acid	<2			
041923FDDUPLICATE	240-184000-C-9	Plastic 500ml - with Nitric Acid	<2			
041923FDDUPLICATE	240-184000-D-9	Plastic 1 liter - Nitric Acid	<2			
041923FDDUPLICATE	240-184000-E-9	Plastic 1 liter - Nitric Acid	<2			

Login # : ____________

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 13	0.3	0.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 13	5.1	5.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 13	3.1	3.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: [illegible]			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-166942.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virgini ...		Job #: 240-184000-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/4/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium 226	9320_Ra228/PrecSep_0 Radium 228	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
041923NOW7A (240-184000-1)	4/19/23	10:25 Eastern		Water			X	X	X	2	
041923NOW8 (240-184000-2)	4/19/23	11:55 Eastern		Water			X	X	X	2	
041923NOW2A (240-184000-3)	4/19/23	13:15 Eastern		Water			X	X	X	2	
041923NOW4A (240-184000-4)	4/19/23	14:55 Eastern		Water			X	X	X	6	
041923NOW4A (240-184000-4MS)	4/19/23	14:55 Eastern	MS	Water			X	X	X	1	
041923NOW4A (240-184000-4MSD)	4/19/23	14:55 Eastern	MSD	Water			X	X	X	1	
041923NOW10 (240-184000-5)	4/19/23	12:15 Eastern		Water			X	X	X	2	
041923NOW12 (240-184000-6)	4/19/23	16:05 Eastern		Water			X	X	X	2	
041923NOW13 (240-184000-7)	4/19/23	13:40 Eastern		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Rachel Hardt	Date/Time: 4/23 1040	Company: EETNC	Received by: FED EX	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Worthington	Date/Time: APR 2 5 2023 0470	Company: FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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5/30/2023

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-166942.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virgini ...		Job #: 240-184000-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium 226	9320_Ra228/PrecSep_0 Radium 228	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
041923FBFIELD BLANK (240-184000-8)	4/19/23	14:50 Eastern		Water			X	X	X	2	
041923FDDUPLICATE (240-184000-9)	4/19/23	10:50 Eastern		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Rachael Hassett	4/19/23 1040	ETNC	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Sara Worthington	Date/Time: APR 25 2023 0920	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5/30/2023

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

240-184000 Chain of Custody

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsu
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See not: State - West Virginia DEP;
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 5/4/2023	
City: Pittsburgh	TAT Requested (days):	
State, Zip: PA, 15238		
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:	
Email:	WO #:	
Project Name: Mount Storm Power Station	Project #: 24021758	
Site:	SSOW#:	

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	2540C_Calcd/ TDS
041923NOW7A (240-184000-1)	4/19/23	10:25 Eastern		Water	X
041923NOW8 (240-184000-2)	4/19/23	11:55 Eastern		Water	X
041923NOW2A (240-184000-3)	4/19/23	13:15 Eastern		Water	X
041923NOW4A (240-184000-4)	4/19/23	14:55 Eastern		Water	X
041923NOW4A (240-184000-4MS)	4/19/23	14:55 Eastern	MS	Water	X
041923NOW4A (240-184000-4MSD)	4/19/23	14:55 Eastern	MSD	Water	X
041923NOW10 (240-184000-5)	4/19/23	12:15 Eastern		Water	X
041923NOW12 (240-184000-6)	4/19/23	16:05 Eastern		Water	X
041923NOW13 (240-184000-7)	4/19/23	13:40 Eastern		Water	X

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Rachell Harold	4-24-23 930	EETNK	DW	4-25-23 900	Pittsburgh

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-166939.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virgini ...		Job #: 240-184000-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 5/4/2023			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
041923FBFIELD BLANK (240-184000-8)	4/19/23	14:50 Eastern		Water			X		
041923FDDUPLICATE (240-184000-9)	4/19/23	10:50 Eastern		Water			X		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Rachelle Hauser	Date/Time: 42423 930	Company EETNC	Received by: DW	Date/Time: 4-25-23 900	Company EETNC	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5/30/2023

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-184000-1
SDG Number: LVWSP CCR Group D

Login Number: 184000
List Number: 3
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 04/25/23 07:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-184000-1
SDG Number: LVWSP CCR Group D

Login Number: 184000
List Number: 2
Creator: Farrell, Conor P

List Source: Eurofins St. Louis
List Creation: 04/25/23 02:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-184000-1
SDG Number: LVWSP CCR Group D

Login Number: 184000
List Number: 4
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 04/26/23 10:03 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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:

Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 4/17/2023 and 4/20/2023

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:

2401840001

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
041923NOW8	OW-8	N	SW-846 6010D	Boron	T	83	J	RL	57	100		ug/L
041923NOW8	OW-8	N	SW-846 6020B	Lithium	T		U	BF,BL	12	12		ug/L
041923NOW8	OW-8	N	SW-846 9056A	Fluoride	N	0.035	J	RL	0.024	0.050		mg/L
041923NOW2A	OW-2A	N	CALC	Radium-226/228	N	0.732	J	S			0.389	pCi/L
041923NOW2A	OW-2A	N	SW-846 6010D	Boron	T	81	J	RL	57	100		ug/L
041923NOW2A	OW-2A	N	SW-846 6020B	Lithium	T		U	BF,BL	9.1	9.1		ug/L
041923NOW2A	OW-2A	N	SW-846 6020B	Molybdenum	T	3.4	J	RL	1.1	5.0		ug/L
041923NOW4A	OW-4A	N	CALC	Radium-226/228	N	0.583	J	S			0.374	pCi/L
041923NOW4A	OW-4A	N	SW-846 6020B	Arsenic	T	1.3	J	RL	0.75	5.0		ug/L
041923NOW4A	OW-4A	N	SW-846 6020B	Beryllium	T	0.62	J	RL	0.62	1.0		ug/L
041923NOW4A	OW-4A	N	SW-846 6020B	Cobalt	T	0.66	J	RL	0.19	1.0		ug/L
041923NOW4A	OW-4A	N	SW-846 6020B	Lithium	T		U	BF,BL	5.5	8.0		ug/L
041923NOW4A	OW-4A	N	SW-846 6020B	Molybdenum	T	1.7	J	RL	1.1	5.0		ug/L
041923NOW4A	OW-4A	N	SW-846 6020B	Thallium	T	0.45	J	RL	0.20	1.0		ug/L
041923NOW4A	OW-4A	N	SW-846 9056A	Fluoride	N	0.039	J	RL	0.024	0.050		mg/L
041923NOW10	OW-10	N	SW-846 6010D	Boron	T	57	J	RL	57	100		ug/L
041923NOW10	OW-10	N	SW-846 6020B	Chromium	T	1.7	J	RL	1.2	5.0		ug/L
041923NOW10	OW-10	N	SW-846 6020B	Cobalt	T	0.80	J	RL	0.19	1.0		ug/L
041923NOW10	OW-10	N	SW-846 6020B	Lithium	T		U	BF,BL	7.0	8.0		ug/L
041923NOW12	OW-12	N	CALC	Radium-226/228	N	0.988	J	S			0.426	pCi/L
041923NOW12	OW-12	N	SW-846 6020B	Cadmium	T	0.51	J	RL	0.20	1.0		ug/L
041923NOW12	OW-12	N	SW-846 6020B	Lithium	T		U	BF,BL	4.3	8.0		ug/L
041923NOW13	OW-13	N	CALC	Radium-226/228	N	0.880	J	S			0.525	pCi/L
041923NOW13	OW-13	N	SW-846 6020B	Arsenic	T	4.6	J	RL	0.75	5.0		ug/L
041923NOW13	OW-13	N	SW-846 6020B	Lead	T	0.80	J	RL	0.45	1.0		ug/L
041923NOW13	OW-13	N	SW-846 6020B	Lithium	T		U	BF,BL	4.9	8.0		ug/L
041923FBFIELDBLANK	Field Blank	FB	CALC	Radium-226/228	N	0.212	U	S			0.350	pCi/L
041923FBFIELDBLANK	Field Blank	FB	SW-846 6020B	Lithium	T	2.6	J	RL	1.7	8.0		ug/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: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-1
Sys Sample Code	041923NOW7A
Sample Name	041923NOW7A
Sample Date	4/19/2023 10:25:00 AM
Location	MSPS-LVWSP-OW-07A / OW-7A
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	Radium-226/228	RA226/228	N	pCi/L	0.332	U		0.322				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	260				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	320				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	42000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.4				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	18				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	99				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.091				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	9.1				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.140	U		0.113	0.165	0.165	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.192	U		0.301	0.511	0.511	1.00	N	Yes	1	NA

Lab Sample ID	240-184000-2
Sys Sample Code	041923NOW8
Sample Name	041923NOW8
Sample Date	4/19/2023 11:55:00 AM
Location	MSPS-LVWSP-OW-08 / OW-8
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	Radium-226/228	RA226/228	N	pCi/L	0.607	U		0.437				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	1600				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	83	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	9.6				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	330000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	21				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		12	12	12	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	180				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.035	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	770				3.5	3.5	10	Y	Yes	10	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0463	U		0.0828	0.148	0.148	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.561	U		0.429	0.661	0.661	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-3
Sys Sample Code	041923NOW2A
Sample Name	041923NOW2A
Sample Date	4/19/2023 1:15:00 PM
Location	MSPS-LVWSP-OW-02A / OW-2A
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	Radium-226/228	RA226/228	N	pCi/L	0.732	J	S	0.389				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	460				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	81	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	240				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	1.2				0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	120000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.6				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		9.1	9.1	9.1	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	3.4	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	17				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.19				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	130				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.367			0.158	0.153	0.153	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.365	U		0.355	0.565	0.565	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-4
Sys Sample Code	041923NOW4A
Sample Name	041923NOW4A
Sample Date	4/19/2023 2:55:00 PM
Location	MSPS-LVWSP-OW-04A / OW-4A
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	Radium-226/228	RA226/228	N	pCi/L	0.583	J	S	0.374				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	140				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	1.3	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	100				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.62	J	RL		0.62	0.62	1.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	31000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.66	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		5.5	5.5	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.7	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.45	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	8.9				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.039	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	32				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0272	U		0.103	0.193	0.193	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.556			0.360	0.528	0.528	1.00	Y	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-5
Sys Sample Code	041923NOW10
Sample Name	041923NOW10
Sample Date	4/19/2023 12:15:00 PM
Location	MSPS-LVWSP-OW-10 / OW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	2.08			0.747				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	350				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	57	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	390				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	64000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	1.7	J	RL		1.2	1.2	5.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.80	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		7.0	7.0	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	43				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	32				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.424			0.222	0.280	0.280	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	1.66			0.713	0.932	0.932	1.00	Y	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-6
Sys Sample Code	041923NOW12
Sample Name	041923NOW12
Sample Date	4/19/2023 4:05:00 PM
Location	MSPS-LVWSP-OW-12 / OW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	0.988	J	S	0.426				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	730				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	120				57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	90				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.51	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	120000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	68				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		4.3	4.3	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	210				1.3	1.3	10	Y	Yes	10	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	210				3.5	3.5	10	Y	Yes	10	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.211	U		0.157	0.230	0.230	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.777			0.396	0.527	0.527	1.00	Y	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-7
Sys Sample Code	041923NOW13
Sample Name	041923NOW13
Sample Date	4/19/2023 1:40:00 PM
Location	MSPS-LVWSP-OW-13 / OW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	0.880	J	S	0.525				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	560				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	4.6	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	150				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	24000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	5.5				1.2	1.2	5.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.0				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	0.80	J	RL		0.45	0.45	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		4.9	4.9	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	25				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.250			0.165	0.222	0.222	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.630	U		0.498	0.768	0.768	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-8
Sys Sample Code	041923FBFIELDBLANK
Sample Name	041923FBFIELDBLANK
Sample Date	4/19/2023 2:50:00 PM
Location	MSPS-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	Radium-226/228	RA226/228	N	pCi/L	0.212	U	S	0.350				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			10	10	10	N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L		U			2.2	2.2	5.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			250	250	1000	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.6	J	RL		1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	-0.0574	U		0.0599	0.168	0.168	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.212	U		0.345	0.588	0.588	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401840001

Lab Sample ID	240-184000-9
Sys Sample Code	041923FDDUPLICATE
Sample Name	041923FDDUPLICATE
Sample Date	4/19/2023 10:50:00 AM
Location	MSPS-LVWSP-OW-07A / OW-7A
Sample Type	FD
Matrix	GW
Parent Sample	041923NOW7A

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	Radium-226/228	RA226/228	N	pCi/L	0.702			0.336				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	270				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	320				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	42000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.1				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	19				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	96				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.6				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.246			0.128	0.148	0.148	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.457			0.311	0.457	0.457	1.00	Y	Yes	1	NA

APPENDIX B

SECOND SEMI-ANNUAL 2023 ASSESSMENT MONITORING PROGRAM EVENT FIELD DATA SHEETS, LABORATORY CERTIFICATES OF ANALYSIS, CHAIN-OF-CUSTODY FORMS, AND DATA VALIDATION FORMS

wsp

Date: 10/24/23

WELL GAUGING LOG

Project Name: MSPS LVWSP Project No./Task No. 31406066.005

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

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
OW-7A	MK	1645	37.68	51.30	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-8	CM	1640	46.70	~~46.~~ 62.82 MK	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-2A	MK	1702	13.40	32.57	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-4A	MK	1713	12.91	32.95	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-10	MK	1708	12.42	32.75	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-12	CM	1702	26.00	31.00	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-13	CM	1650	16.58	27.30	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-2	MK	1703	12.48	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-4	MK	1715	14.19	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-6A	MK	1659	6.65	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-6B	MK	1658	8.43	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-7B	MK	1642	36.29	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-8A	CM	1642	58.73	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-9A	CM	1659	BTOP (dtb: 16.25)	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-9B	CM	1657	12.73	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-11	CM	1652	16.90	–	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes: _____

Signature: M. Knez Date: 10/27/23

QA/QC Signature: [illegible] Date: 10/27/23

wsp

Date: 10/24/23

WELL GAUGING LOG

Project Name: MSPS LVWSP

Project No./Task No. 31406066.005

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

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary: Protective Casing	Well Casing	Label	Lock	Pad Condition
OW-14	CM	1655	16.95	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-15	CM	1647	9.61	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-16	CM	1710	21.35	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-17	CM	1705	22.35	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-18	MK	1653	21.93	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
OW-19	MK	1649	27.93	—	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged
					☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged

Observations/Notes:

Signature: M Knez Date: 10/27/23

QA/QC Signature: [signature] Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Partly Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): C. Meyer
Well ID: OW-7A
Field Calibration Completed: 0745 on 10/25/23
Well Diameter: 2.0 inches
Initial Depth to Water: 37.69 feet
Depth to Bottom: 51.30 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS16E102132
- [ ] 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	5.96	571	17.13	1.28	10.8	37.7	39.57	~150
0910	5.94	565	14.97	1.12	10.8	41.1	39.65	~150
0915	5.95	548	13.30	1.07	10.8	44.4	39.80	~150
0920	5.95	530	10.64	1.06	10.8	47.6	39.94	~150
0925	5.99	522	7.41	1.06	10.7	48.5	39.92	~150
0930	6.03	517	5.40	1.06	10.7	46.4	39.90	~150
0935	—	S	A	M	P	L	E	—
0953	6.10	494.7	4.43	1.03	10.9	42.9	39.93	~150

Purge Cycle (End): 56/4 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) 46.25 (0.006) = ~0.28
Total Purge Volume (Gallons): ~2.0
Purge Water Management: O.W.S. On-site
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample
Purge time: 0845

Sample Time: 0935
Field Filtered (0.45um): ~~Yes~~ [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [x] LVWSP: IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523NOW7A

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: [signature] Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: 75°. Cloudy, 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): M. Knez
Well ID: OW-8
Field Calibration Completed: 10/25/23 @ 0745
Well Diameter: 2.0 inches
Initial Depth to Water: 46.75 feet
Depth to Bottom: 62.82 feet
Water Column Thickness: — feet

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

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0845	6.27	1657	4.80	3.39	12.1	-2.7	47.87	~240
0850	6.35	1567	7.89	2.16	12.0	-24.7	48.01	~240
0855	6.38	1541	9.84	~~2.11~~ 1.79	12.0	-31.7	48.02	~240
0900	6.40	1514	8.48	1.75	12.1	-32.4	48.03	~240
0905	6.42	1470	~~8.11~~ 5.76	1.67	12.1	-32.3	48.11	~240
0910	6.44	1423	5.02	1.59	12.1	-31.4	48.19	~240
0915	6.44	1408	4.63	1.54	12.1	-32.0	48.24	~240
0920	6.44	1399	5.61	1.25	12.0	-33.8	48.31	~240
0925	—	—	—	SAMPLE	—	—	—	—
1012	6.50	1379	7.43	1.59	12.2	-36.9	48.20	~240

Purge Cycle (End): 24/6 seconds @ 35 psi
Flow Rate (ml/min End): ~240
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 53.83(0.006) ≈ 0.32
Total Purge Volume (Gallons): ~4.0
Purge Water Management: O.W.S.
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 0834 MS/MSD taken here
Sample Time: 0925
Field Filtered (0.45µm): ~~Yes~~ MM [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] ~~CCR Appendix III~~
- [x] ~~CCR Appendix IV~~ & LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, [ ] Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523NOW8 ; 102523MSMatrixSpike ; 102523MSDMatrixSpikeDup

Sampler Signature: M. Knez Date: 10/25/23 Page 1 of 1
QA/QC Signature: [signature] Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: sunny, 60s

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): M. Knez
Well ID: OW1-2A
Field Calibration Completed: 10/25/23 @ 0745
Well Diameter: 2.0 inches
Initial Depth to Water: 13.40 feet
Depth to Bottom: 32.57 feet
Water Column Thickness: feet

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

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm)^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)	
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500	
1140	5.97	675	39.46	1.20	13.5	32.0	13.45	~300	
1143	6.07	677	34.20	1.04	14.3	19.5	13.47	~300	
1146	—	—	changing flow rate / purge cycle					—	
1149	6.21	673	25.94	0.81	13.9	1.1	13.51	~320	
1152	6.23	672	19.54	0.73	13.6	-1.8	13.53	~320	
1155	6.30	675	12.43	0.57	13.6	-13.9	13.55	~380 ~~mL/min~~	~4
1158	6.36	672	13.12	0.61	13.7	-22.9	13.53	~~~380~~ mL/min	~4
1201	6.43	660	11.52	0.59	13.7	-31.9	13.57	~~~380~~ mL/min	~4
1204	6.42	~~655~~ 654	8.52	0.48	13.8	-32.8	13.60	~~~380~~ mL/min	~4
1210 *	—	—	—	SAMPLE	—	—	—	—	
1223	6.38	642	3.2J	0.48	14.0	-31.3	13.58	~450	

Purge Cycle (End): 25/5 seconds @ ~23 psi
Flow Rate (ml/min End): ~450
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 27.76(0.006) = 0.17
Total Purge Volume (Gallons): ~3.0
Purge Water Management: O.W.S.
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 1130
Sample Time: 1210
Field Filtered (0.45um): ~~Yes~~ MM [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: ~~MM~~ need high flow rate for ~~<10~~ sub 10 NTU MM
Sample ID: 102523OW2A *: change air tank at end of sampling

Sampler Signature: M. Knez Date: 10/25/23 Page 1 of 1
QA/QC Signature: Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): CMeyer
Well ID: OW-4A
Field Calibration Completed: 0745 on 10/25/23
Well Diameter: 2.0 inches
Initial Depth to Water: 12.85 feet
Depth to Bottom: 32.95 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI Pro DSS16E100132
- [ ] 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
1225	6.76	277.3	6.92	2.79	17.0	-39.7	12.85	~400
1228	6.86	266.1	7.97	2.47	17.0	-58.6	12.85	~400
1231	6.89	256.1	9.77	2.35	17.0	-66.0	12.85	~400
1234	6.90	248.5	9.86	2.27	17.0	-65.5	12.85	~400
1237	6.90	241.7	9.98	2.16	17.0	-64.9	12.85	~400
1240	6.89	239.6	10.06	1.98	17.1	-63.8	12.85	~400
1243	6.89	238.7	9.87	2.01	17.1	-63.2	12.85	~400
1250	—	S	A	M	P	L	E	—
1311	6.84	228.2	11.06	1.70	17.2	-56.0	12.85	~400

Purge Cycle (End): 24/6 seconds @ 20 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): 28.15 (0.006) = ~0.17
Total Purge Volume (Gallons): ~3.0
Purge Water Management: O.W.S. on-site
Purge Observations (color, odor, turbidity, sheen): lt. tan grab Sample
Purge time: 1220

Sample Time: 1250
Field Filtered (0.45um): ~~Yes~~ ☒ ~~No~~

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] Closed 5-year NPDES [Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523NOW4A

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: M. Kuy Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Sunny, windy, 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): M. Knez
Well ID: OW-10
Field Calibration Completed: 10/25/23 @ 0745
Well Diameter: 2.0 inches
Initial Depth to Water: 12.40 feet
Depth to Bottom: 32.75 feet
Water Column Thickness: feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ProDSS23B04947
- [ ] 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
1045	6.43	544	16.71	0.92	14.7	-84.7	12.53	~450
1048	6.43	540	12.14	0.85	14.8	-86.5	12.52	~450
1051	6.43	540	10.39	0.82	14.9	-86.7	12.57	~450
1054	6.41	541	11.11	0.80	15.0	-85.4	12.54	~450
~~1057~~	6.40	546	9.65	0.76	15.0	-84.1	12.53	~450
1100				SAMPLE				
1113	6.38	562	4.97	1.39	15.8	-71.8	12.46	~450

Purge Cycle (End): 14/6 seconds @ 20 psi
Flow Rate (ml/min End): ~450

Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~~18.02~~ 28.05 (0.006) = ~~0.11~~ 0.17

Total Purge Volume (Gallons): ~3.50
Purge Water Management: O.W.S.

Purge Observations (color, odor, turbidity, sheen): clear grab sample

Purge time: 1039

Sample Time: 1100

Field Filtered (0.45µm): ~~Yes~~ MK [ ] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [x] CCR Appendix III
- [x] CCR Appendix IV
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:

Sample ID: 102523NOW10

Sampler Signature: MK Knez Date: 10/25/23
QA/QC Signature: [signature] Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066 005
Event: 2SA2023 LVWSP
Sampler(s): C. Meyer
Well ID: ON-12
Field Calibration Completed: 0745 on 10/25/23
Well Diameter: 2.0 inches
Initial Depth to Water: BTOP feet
Depth to Bottom: 31.00 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI ~~No~~ D516 E100132
- [ ] In-Situ —
- [ ] Turbidity Meter
- [ ] Peristaltic Pump
- [ ] MP-10 Controller Box
- [ ] Air Tank
- [ ] Compressor
- [x] MP-15 Controller Box
- [ ] ~~Dedicated Bladder Pump~~
- [x] 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
1346	6.12	951	4.43	0.90	16.0	-2.1	BTOP	~200
1349	6.12	945	3.53	0.72	15.8	-1.3	BTOP	~200
1352	6.12	946	3.33	0.64	15.6	-2.2	BTOP	~200
1355	6.12	948	2.60	0.53	15.6	-2.8	BTOP	~200
1400	—	S	A	M	P	L	—	—
1419	6.11	1041	5.43	0.68	16.2	4.7	BTOP	~200

Purge Cycle (End): 25/5 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): 25.40 (0.006) =
Total Purge Volume (Gallons): ~~1 liter~~ ~1.0
Purge Water Management: O.W.S. On-site
Purge Observations (color, odor, turbidity, sheen): 1 liter grab Sample
Purge time: 1341
Sample Time: 1400
Field Filtered (0.45um): ~~Yes~~ No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV & LVWSP IV Detects (As, Ba, Be, Cd, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: ~~10/25/23-a~~ 102523NOW12

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: M. Kuy Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Partly Cloudy 60s

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): C. Meyer
Well ID: OW-13
Field Calibration Completed: 0745 on 10/25/23
Well Diameter: 2.0 inches
Initial Depth to Water: 16.55 feet
Depth to Bottom: 27.30 feet
Water Column Thickness: — feet

Equipment Used:
- [x] WL Indicator
- [x] YSI pro0SS16 E100132
- [ ] 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
- [ ] —

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
1016	6.21	814	240.44	0.78	14.7	-74.3	17.73	~240
1021	6.25	813	233.03	0.43	14.7	-78.7	18.36	~240
1026	6.24	828	153.90	0.36	14.5	-78.2	18.75	~240
1031	6.24	832	220.30	0.30	14.5	-78.9	18.85	~240
1036	6.24	840	150.18	0.24	14.6	-80.1	19.08	~240
1041	6.24	846	115.85	0.20	14.6	-81.7	19.16	~240
1046	6.25	841	92.56	0.18	14.6	-82.6	19.25	~240
1051	6.21	834	89.68	0.15	14.6	-70.4	19.25	~240
1056	6.24	817	68.62	0.14	14.6	-76.0	19.25	~240
1101	6.25	798	49.17	0.16	14.7	-78.2	19.26	~240
1106	6.25	787	42.46	0.15	14.8	-79.4	19.26	~240
1111	6.27	774	44.18	0.16	14.8	-80.2	19.26	~240
1116	6.28	768	42.76	0.16	14.5	-80.6	19.29	~240
1121	6.28	768	44.25	0.13	14.7	-81.1	19.32	~240
1125	—	S	A	M	P	L	E	—
1137	6.29	807	59.25	0.40	14.9	-79.0	19.30	~240

Purge Cycle (End): 25/5 seconds @ ~30 psi
Flow Rate (ml/min End): ~400
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 19.93 (0.006) = ~0.12
Total Purge Volume (Gallons): ~50
Purge Water Management: O.W.S. on-site
Purge Observations (color, odor, turbidity, sheen): Lt tan grab Sample
Purge time: 1010

Sample Time: 1125
Field Filtered (0.45um): ~~Yes~~ [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, [ ] Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523NONI3

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: M. Kuf Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Partly Cloudy 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): C. Meyer
Well ID: FB Field Blank
Field Calibration Completed: —
Well Diameter: — inches
Initial Depth to Water: — feet
Depth to Bottom: — feet
Water Column Thickness: — feet

Equipment Used:
- [x] ~~WL Indicator~~
- [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
1025	—	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: —
Purge Observations (color, odor, turbidity, sheen): Clear grab Sample taken near OW-13 w/ Lab provided D.I. Water
Purge time: —
Sample Time: 1025
Field Filtered (0.45um): [x] ~~Yes~~ [ ] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [x] LVWSP IV Detects (As, Ba, Be, Cd, Co, Pb, Mo, Tl, Rad 226-228)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- [ ] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523 FB Field Blank

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: M. Kuy Date: 10/27/23

MICROPURGE SAMPLING LOG

Date: 10/25/23
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 LVWSP
Sampler(s): CMeyer
Well ID: FDDuplicate
Field Calibration Completed: 0745 on 10/25/23
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 16E100132
- [ ] 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
1300	—	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: —
Purge Observations (color, odor, turbidity, sheen): Lt. tan grab Sample taken @ DW-4A
Purge time: —

Sample Time: 1300
Field Filtered (0.45um): [x] ~~Yes~~ [x] No

Sample Parameters/Analyte(s):
- [ ] Petro (DRO)
- [ ] CCR Appendix III
- [ ] CCR Appendix IV
- [ ] LVWSP IV Detects (As, Ba, Be, Cd, Ca, Cl, Pb, Mo, Tl, Rad 226-228)
- [ ] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
- [ ] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide
- [ ] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
- Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102523FDDuplicate

Sampler Signature: [signature] Date: 10/25/23
QA/QC Signature: M. Kuy Date: 10/27/23

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

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JOB DESCRIPTION

MSPS-2SA2023-LVWSP-D

JOB NUMBER

240-194365-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

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Authorization

Roxanne Cisneros

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Authorized for release by
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Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-194365-1 Eurofins Cleveland

Job Narrative
240-194365-1

Receipt
The samples were received on 10/27/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.2º C, 2.1º C, 2.5º C and 4.4º C.

RAD
Method 9320: Radium-228 batch 638567: The detection goal was not met for the following sample. Sample was prepped at a reduced volume due to the presence of matrix interferences: 102523NOW13 (240-194365-7). Analytical results are reported with the detection limit achieved.

Method 9320: There was insufficient volume remaining to perform MS/MSD on the re-extract. 240-194365-2 MS & MSD

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 2540C: The sample did not reach a stable weight following 3 cycles of heating, cooling, and desiccation. The cycle 3 weight was used to calculate the Total Dissolved Solids (TDS) for the sample result. 102523NOW8 (240-194365-2), 102523NOW4A (240-194365-4), 102523NOW10 (240-194365-5) and 102523NOW12 (240-194365-6)

Method SM 2540C: The sample did not reach a stable weight following 3 cycles of heating, cooling, and desiccation. The cycle 3 weight was used to calculate the Total Dissolved Solids (TDS) for the sample result. 102523FDDUPLICATE (240-194365-9)

Method 9056A: Bracketing CCB failed for the following samples, however samples are being reported as secondary for in hold results. 102523NOW7A (240-194365-1), 102523NOW2A (240-194365-3) and 102523NOW10 (240-194365-5)

Method 9056A: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. 102523NOW7A (240-194365-1), 102523NOW2A (240-194365-3) and 102523NOW10 (240-194365-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET PIT
9056A	Anions, Ion Chromatography	SW846	EET CLE
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Dominion Energy Services, Inc.
Job ID: 240-194365-1
Project/Site: MSPS-2SA2023-LVWSP-D

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194365-1	102523NOW7A	Water	10/25/23 09:35	10/27/23 09:20
240-194365-2	102523NOW8	Water	10/25/23 09:25	10/27/23 09:20
240-194365-3	102523NOW2A	Water	10/25/23 12:10	10/27/23 09:20
240-194365-4	102523NOW4A	Water	10/25/23 12:50	10/27/23 09:20
240-194365-5	102523NOW10	Water	10/25/23 11:00	10/27/23 09:20
240-194365-6	102523NOW12	Water	10/25/23 14:00	10/27/23 09:20
240-194365-7	102523NOW13	Water	10/25/23 11:25	10/27/23 09:20
240-194365-8	102523FBFIELDBLANK	Water	10/25/23 10:25	10/27/23 09:20
240-194365-9	102523FDDUPLICATE	Water	10/25/23 13:00	10/27/23 09:20

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW7A — Lab Sample ID: 240-194365-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.57	J	2.0	0.57	ug/L	1		6020B	Total Recoverable
Barium	290		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	41000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	3.1		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	14		8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	1.2		1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	240		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	100		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.15	^2	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	9.4	^2	1.0	0.35	mg/L	1		9056A	Total/NA
Fluoride - RA	0.12	H	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate - RA	8.6	H	1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102523NOW8 — Lab Sample ID: 240-194365-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	11		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	220000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	13		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	8.8		8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	0.64	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	890		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	120		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	430		5.0	1.7	mg/L	5		9056A	Total/NA

Client Sample ID: 102523NOW2A — Lab Sample ID: 240-194365-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	88	J	100	57	ug/L	1		6010D	Total Recoverable
Barium	150		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	0.67	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	87000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	39		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	5.4	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.4	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Thallium	0.56	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	370		10	10	mg/L	1		2540C - 2015	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW2A (Continued) — Lab Sample ID: 240-194365-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.15	^2	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	47	^2	1.0	0.35	mg/L	1		9056A	Total/NA
Fluoride - RA	0.11	H	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate - RA	42	H	1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102523NOW4A — Lab Sample ID: 240-194365-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	74	J	100	57	ug/L	1		6010D	Total Recoverable
Arsenic	0.96	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	86		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	27000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.39	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	3.4	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.5	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Thallium	0.34	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	120		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	8.5		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.10		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	37		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102523NOW10 — Lab Sample ID: 240-194365-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	67	J	100	57	ug/L	1		6010D	Total Recoverable
Barium	420		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	59000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.36	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	9.5		8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	0.23	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	240		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	16		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.23	^2	0.050	0.024	mg/L	1		9056A	Total/NA
Fluoride - RA	0.16	H	0.050	0.024	mg/L	1		9056A	Total/NA

Client Sample ID: 102523NOW12 — Lab Sample ID: 240-194365-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	62	J	100	57	ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 102523NOW12 (Continued)

Lab Sample ID: 240-194365-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.83	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	79		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	100000		1000	250	ug/L	1		6020B	Total Recoverable
Chromium	1.6	J	5.0	1.2	ug/L	1		6020B	Total Recoverable
Cobalt	71		1.0	0.19	ug/L	1		6020B	Total Recoverable
Thallium	0.20	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	680		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	140		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.031	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	220		5.0	1.7	mg/L	5		9056A	Total/NA

Client Sample ID: 102523NOW13

Lab Sample ID: 240-194365-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	200		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	22000		1000	250	ug/L	1		6020B	Total Recoverable
Chromium	8.4		5.0	1.2	ug/L	1		6020B	Total Recoverable
Cobalt	4.0		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lead	1.8		1.0	0.45	ug/L	1		6020B	Total Recoverable
Lithium	4.4	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Selenium	1.2	J	5.0	0.89	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	400		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	26		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.027	J	0.050	0.024	mg/L	1		9056A	Total/NA

Client Sample ID: 102523FBFIELDBLANK

Lab Sample ID: 240-194365-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	2.1	J	8.0	1.7	ug/L	1		6020B	Total Recoverable

Client Sample ID: 102523FDDUPLICATE

Lab Sample ID: 240-194365-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	72	J	100	57	ug/L	1		6010D	Total Recoverable
Arsenic	1.2	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	80		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	25000		1000	250	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 102523FDDUPLICATE (Continued)

Lab Sample ID: 240-194365-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.31	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	3.2	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.4	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Total Dissolved Solids	110		10	10	mg/L	1		2540C - 2015	Total/NA
Chloride	8.6		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.096		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	38		1.0	0.35	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 102523NOW7A
Date Collected: 10/25/23 09:35
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/30/23 14:00	10/31/23 22:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.57**	**J**	2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:03	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:03	1
Barium	**290**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:03	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:03	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:03	1
Calcium	**41000**		1000	250	ug/L		10/30/23 14:00	11/01/23 19:03	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:03	1
Cobalt	**3.1**		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:03	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:03	1
Lithium	**14**		8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:03	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:03	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:03	1
Thallium	**1.2**		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**240**		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	**100**		1.0	0.13	mg/L			11/18/23 21:11	1
Fluoride (SW846 9056A)	**0.15**	**^2**	0.050	0.024	mg/L			11/18/23 21:11	1
Sulfate (SW846 9056A)	**9.4**	**^2**	1.0	0.35	mg/L			11/18/23 21:11	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SW846 9056A)	**0.12**	**H**	0.050	0.024	mg/L			11/23/23 00:24	1
Sulfate (SW846 9056A)	**8.6**	**H**	1.0	0.35	mg/L			11/23/23 00:24	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.159**		0.101	0.102	1.00	0.136	pCi/L	11/02/23 09:49	12/01/23 18:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:07*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.409	U	0.450	0.452	1.00	0.734	pCi/L	11/28/23 11:06	12/05/23 11:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*67.7*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:24*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW7A
Date Collected: 10/25/23 09:35
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-1
Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*78.9*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:24*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.567	U	0.461	0.463	5.00	0.734	pCi/L		12/04/23 16:01	1

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW8

Date Collected: 10/25/23 09:25
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/30/23 14:00	10/31/23 21:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 18:51	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 18:51	1
Barium	**11**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 18:51	1
Beryllium	<0.62	F1	1.0	0.62	ug/L		10/30/23 14:00	11/01/23 18:51	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 18:51	1
Calcium	**220000**		1000	250	ug/L		10/30/23 14:00	11/01/23 18:51	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 18:51	1
Cobalt	**13**		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 18:51	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 18:51	1
Lithium	**8.8**		8.0	1.7	ug/L		10/30/23 14:00	11/01/23 18:51	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 18:51	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 18:51	1
Thallium	**0.64**	**J**	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 18:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**890**		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	**120**		1.0	0.13	mg/L			11/18/23 13:47	1
Fluoride (SW846 9056A)	**0.11**		0.050	0.024	mg/L			11/18/23 13:47	1
Sulfate (SW846 9056A)	**430**		5.0	1.7	mg/L			11/18/23 14:48	5

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00559	U	0.0646	0.0646	1.00	0.132	pCi/L	11/02/23 09:49	12/01/23 18:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:07*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.204	U	0.314	0.314	1.00	0.531	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*
Y Carrier	*83.0*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW8
Date Collected: 10/25/23 09:25
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-2
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.209	U	0.321	0.321	5.00	0.531	pCi/L		12/04/23 16:01	1

Client Sample ID: 102523NOW2A
Date Collected: 10/25/23 12:10
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-3
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	88	J	100	57	ug/L		10/30/23 14:00	10/31/23 22:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:05	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:05	1
Barium	150		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:05	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:05	1
Cadmium	0.67	J	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:05	1
Calcium	87000		1000	250	ug/L		10/30/23 14:00	11/01/23 19:05	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:05	1
Cobalt	39		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:05	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:05	1
Lithium	5.4	J	8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:05	1
Molybdenum	1.4	J	5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:05	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:05	1
Thallium	0.56	J	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	370		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	28		1.0	0.13	mg/L			11/18/23 22:11	1
Fluoride (SW846 9056A)	0.15	^2	0.050	0.024	mg/L			11/18/23 22:11	1
Sulfate (SW846 9056A)	47	^2	1.0	0.35	mg/L			11/18/23 22:11	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SW846 9056A)	0.11	H	0.050	0.024	mg/L			11/23/23 01:29	1
Sulfate (SW846 9056A)	42	H	1.0	0.35	mg/L			11/23/23 01:29	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.572		0.160	0.168	1.00	0.123	pCi/L	11/02/23 09:49	12/01/23 18:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:08*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.415	U	0.372	0.374	1.00	0.591	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW2A
Date Collected: 10/25/23 12:10
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-3
Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*84.1*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.987**		0.405	0.410	5.00	0.591	pCi/L		12/04/23 16:01	1

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW4A

Date Collected: 10/25/23 12:50
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	74	J	100	57	ug/L		10/30/23 14:00	10/31/23 22:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:08	1
Arsenic	0.96	J	5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:08	1
Barium	86		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:08	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:08	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:08	1
Calcium	27000		1000	250	ug/L		10/30/23 14:00	11/01/23 19:08	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:08	1
Cobalt	0.39	J	1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:08	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:08	1
Lithium	3.4	J	8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:08	1
Molybdenum	1.5	J	5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:08	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:08	1
Thallium	0.34	J	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	120		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	8.5		1.0	0.13	mg/L			11/18/23 19:30	1
Fluoride (SW846 9056A)	0.10		0.050	0.024	mg/L			11/18/23 19:30	1
Sulfate (SW846 9056A)	37		1.0	0.35	mg/L			11/18/23 19:30	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0728	U	0.0808	0.0811	1.00	0.129	pCi/L	11/02/23 09:49	12/01/23 18:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.7*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:08*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.683		0.397	0.402	1.00	0.576	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.8*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*
Y Carrier	*83.7*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW4A
Date Collected: 10/25/23 12:50
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-4
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.756		0.405	0.410	5.00	0.576	pCi/L		12/04/23 16:01	1

Client Sample ID: 102523NOW10
Date Collected: 10/25/23 11:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**67**	**J**	100	57	ug/L		10/30/23 14:00	10/31/23 22:32	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:10	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:10	1
Barium	**420**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:10	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:10	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:10	1
Calcium	**59000**		1000	250	ug/L		10/30/23 14:00	11/01/23 19:10	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:10	1
Cobalt	**0.36**	**J**	1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:10	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:10	1
Lithium	**9.5**		8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:10	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:10	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:10	1
Thallium	**0.23**	**J**	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**240**		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	**16**		1.0	0.13	mg/L			11/18/23 22:31	1
Fluoride (SW846 9056A)	**0.23**	**^2**	0.050	0.024	mg/L			11/18/23 22:31	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			11/18/23 22:31	1

General Chemistry - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (SW846 9056A)	**0.16**	**H**	0.050	0.024	mg/L			11/23/23 01:50	1
Sulfate (SW846 9056A)	<0.35	H	1.0	0.35	mg/L			11/23/23 01:50	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.582**		0.186	0.193	1.00	0.169	pCi/L	11/02/23 09:49	12/01/23 18:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:08*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.133	U	0.384	0.384	1.00	0.685	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW10
Date Collected: 10/25/23 11:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-5
Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Y Carrier	*83.4*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.714**		0.427	0.430	5.00	0.685	pCi/L		12/04/23 16:01	1

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW12

Date Collected: 10/25/23 14:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**62**	**J**	100	57	ug/L		10/30/23 14:00	10/31/23 22:37	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:18	1
Arsenic	**0.83**	**J**	5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:18	1
Barium	**79**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:18	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:18	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:18	1
Calcium	**100000**		1000	250	ug/L		10/30/23 14:00	11/01/23 19:18	1
Chromium	**1.6**	**J**	5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:18	1
Cobalt	**71**		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:18	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:18	1
Lithium	<1.7		8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:18	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:18	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:18	1
Thallium	**0.20**	**J**	1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**680**		10	10	mg/L			10/31/23 16:17	1
Chloride (SW846 9056A)	**140**		1.0	0.13	mg/L			11/18/23 18:29	1
Fluoride (SW846 9056A)	**0.031**	**J**	0.050	0.024	mg/L			11/18/23 18:29	1
Sulfate (SW846 9056A)	**220**		5.0	1.7	mg/L			11/18/23 18:50	5

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.375**		0.162	0.165	1.00	0.178	pCi/L	11/02/23 09:49	12/01/23 18:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:09*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.230	U	0.419	0.420	1.00	0.722	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*
Y Carrier	*83.0*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW12
Date Collected: 10/25/23 14:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-6
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.604	U	0.449	0.451	5.00	0.722	pCi/L		12/04/23 16:01	1

Client Sample ID: 102523NOW13

Date Collected: 10/25/23 11:25
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-7

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/30/23 14:00	10/31/23 22:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:20	1
Arsenic	**7.5**		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:20	1
Barium	**200**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:20	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:20	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:20	1
Calcium	**22000**		1000	250	ug/L		10/30/23 14:00	11/01/23 19:20	1
Chromium	**8.4**		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:20	1
Cobalt	**4.0**		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:20	1
Lead	**1.8**		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:20	1
Lithium	**4.4**	**J**	8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:20	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:20	1
Selenium	**1.2**	**J**	5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:20	1
Thallium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**400**		10	10	mg/L			11/01/23 21:12	1
Chloride (SW846 9056A)	**26**		1.0	0.13	mg/L			11/18/23 17:49	1
Fluoride (SW846 9056A)	**0.027**	**J**	0.050	0.024	mg/L			11/18/23 17:49	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			11/18/23 17:49	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.572**		0.302	0.307	1.00	0.366	pCi/L	11/02/23 09:49	12/01/23 18:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*61.7*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:09*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.709	U G	0.786	0.789	1.00	1.29	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.6*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*
Y Carrier	*82.6*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523NOW13
Date Collected: 10/25/23 11:25
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-7
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.28	U	0.842	0.847	5.00	1.29	pCi/L		12/04/23 16:01	1

Client Sample ID: 102523FBFIELDBLANK

Lab Sample ID: 240-194365-8

Date Collected: 10/25/23 10:25

Matrix: Water

Date Received: 10/27/23 09:20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/30/23 14:00	10/31/23 22:45	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:23	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:23	1
Barium	<2.2		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:23	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:23	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:23	1
Calcium	<250		1000	250	ug/L		10/30/23 14:00	11/01/23 19:23	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:23	1
Cobalt	<0.19		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:23	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:23	1
Lithium	**2.1**	**J**	8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:23	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:23	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:23	1
Thallium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	<10		10	10	mg/L			11/01/23 21:12	1
Chloride (SW846 9056A)	<0.13		1.0	0.13	mg/L			11/18/23 18:09	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			11/18/23 18:09	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			11/18/23 18:09	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0787	U	0.0862	0.0865	1.00	0.136	pCi/L	11/02/23 09:49	12/01/23 18:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:09*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.279	0.280	1.00	0.484	pCi/L	11/28/23 11:06	12/05/23 11:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*
Y Carrier	*81.9*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:19*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523FBFIELDBLANK
Date Collected: 10/25/23 10:25
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-8
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.235	U	0.292	0.293	5.00	0.484	pCi/L		12/05/23 17:03	1

Client Sample ID: 102523FDDUPLICATE
Date Collected: 10/25/23 13:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-9
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**72**	**J**	100	57	ug/L		10/30/23 14:00	10/31/23 22:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 19:25	1
Arsenic	**1.2**	**J**	5.0	0.75	ug/L		10/30/23 14:00	11/01/23 19:25	1
Barium	**80**		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 19:25	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 19:25	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:25	1
Calcium	**25000**		1000	250	ug/L		10/30/23 14:00	11/01/23 19:25	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 19:25	1
Cobalt	**0.31**	**J**	1.0	0.19	ug/L		10/30/23 14:00	11/01/23 19:25	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 19:25	1
Lithium	**3.2**	**J**	8.0	1.7	ug/L		10/30/23 14:00	11/01/23 19:25	1
Molybdenum	**1.4**	**J**	5.0	1.1	ug/L		10/30/23 14:00	11/01/23 19:25	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 19:25	1
Thallium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 19:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**110**		10	10	mg/L			11/01/23 21:12	1
Chloride (SW846 9056A)	**8.6**		1.0	0.13	mg/L			11/18/23 19:10	1
Fluoride (SW846 9056A)	**0.096**		0.050	0.024	mg/L			11/18/23 19:10	1
Sulfate (SW846 9056A)	**38**		1.0	0.35	mg/L			11/18/23 19:10	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.126	U	0.106	0.106	1.00	0.156	pCi/L	11/02/23 09:49	12/01/23 18:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.3*		*30 - 110*	*11/02/23 09:49*	*12/01/23 18:09*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.110	U	0.307	0.307	1.00	0.545	pCi/L	11/28/23 11:06	12/05/23 11:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:18*	*1*
Y Carrier	*86.4*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:18*	*1*

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Client Sample ID: 102523FDDUPLICATE
Date Collected: 10/25/23 13:00
Date Received: 10/27/23 09:20

Lab Sample ID: 240-194365-9
Matrix: Water

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.236	U	0.325	0.325	5.00	0.545	pCi/L		12/05/23 17:03	1

Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-LVWSP-D

Job ID: 240-194365-1

Method: 9315 - Radium-226 (GFPC)

Matrix: Water | **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
240-194365-1	102523NOW7A	94.3
240-194365-2	102523NOW8	95.3
240-194365-2 MS	102523NOW8	95.1
240-194365-2 MSD	102523NOW8	96.5
240-194365-3	102523NOW2A	88.4
240-194365-4	102523NOW4A	85.7
240-194365-5	102523NOW10	96.0
240-194365-6	102523NOW12	93.1
240-194365-7	102523NOW13	61.7
240-194365-8	102523FBFIELDBLANK	75.3
240-194365-9	102523FDDUPLICATE	75.3
LCS 160-634954/2-A	Lab Control Sample	97.0
MB 160-634954/1-A	Method Blank	97.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water | **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
240-194365-1	102523NOW7A	67.7	78.9
240-194365-2	102523NOW8	95.5	83.0
240-194365-2 DU	102523NOW8	93.0	80.0
240-194365-3	102523NOW2A	85.8	84.1
240-194365-4	102523NOW4A	82.8	83.7
240-194365-5	102523NOW10	86.6	83.4
240-194365-6	102523NOW12	90.8	83.0
240-194365-7	102523NOW13	80.6	82.6
240-194365-8	102523FBFIELDBLANK	92.5	81.9
240-194365-9	102523FDDUPLICATE	84.1	86.4
LCS 160-638567/2-A	Lab Control Sample	94.8	82.6
MB 160-638567/1-A	Method Blank	91.0	85.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-592744/1-A
Matrix: Water
Analysis Batch: 592957

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/30/23 14:00	10/31/23 21:42	1

Lab Sample ID: LCS 240-592744/2-A
Matrix: Water
Analysis Batch: 592957

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	991		ug/L		99	80 - 120

Lab Sample ID: 240-194365-2 MS
Matrix: Water
Analysis Batch: 592957

Client Sample ID: 102523NOW8
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	943		ug/L		94	75 - 125

Lab Sample ID: 240-194365-2 MSD
Matrix: Water
Analysis Batch: 592957

Client Sample ID: 102523NOW8
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<57		1000	1070		ug/L		107	75 - 125	12	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-592744/1-A
Matrix: Water
Analysis Batch: 593128

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/30/23 14:00	11/01/23 18:41	1
Arsenic	<0.75		5.0	0.75	ug/L		10/30/23 14:00	11/01/23 18:41	1
Barium	<2.2		5.0	2.2	ug/L		10/30/23 14:00	11/01/23 18:41	1
Beryllium	<0.62		1.0	0.62	ug/L		10/30/23 14:00	11/01/23 18:41	1
Cadmium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 18:41	1
Calcium	<250		1000	250	ug/L		10/30/23 14:00	11/01/23 18:41	1
Chromium	<1.2		5.0	1.2	ug/L		10/30/23 14:00	11/01/23 18:41	1
Cobalt	<0.19		1.0	0.19	ug/L		10/30/23 14:00	11/01/23 18:41	1
Lead	<0.45		1.0	0.45	ug/L		10/30/23 14:00	11/01/23 18:41	1
Lithium	<1.7		8.0	1.7	ug/L		10/30/23 14:00	11/01/23 18:41	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/30/23 14:00	11/01/23 18:41	1
Selenium	<0.89		5.0	0.89	ug/L		10/30/23 14:00	11/01/23 18:41	1
Thallium	<0.20		1.0	0.20	ug/L		10/30/23 14:00	11/01/23 18:41	1

Lab Sample ID: LCS 240-592744/3-A
Matrix: Water
Analysis Batch: 593128

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	108		ug/L		108	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-592744/3-A
Matrix: Water
Analysis Batch: 593128

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	1000		ug/L		100	80 - 120
Barium	1000	1000		ug/L		100	80 - 120
Beryllium	500	465		ug/L		93	80 - 120
Cadmium	500	503		ug/L		101	80 - 120
Calcium	25000	24700		ug/L		99	80 - 120
Chromium	500	501		ug/L		100	80 - 120
Cobalt	500	491		ug/L		98	80 - 120
Lead	500	475		ug/L		95	80 - 120
Lithium	500	495		ug/L		99	80 - 120
Molybdenum	500	477		ug/L		95	80 - 120
Selenium	1000	979		ug/L		98	80 - 120
Thallium	1000	993		ug/L		99	80 - 120

Lab Sample ID: 240-194365-2 MS
Matrix: Water
Analysis Batch: 593128

Client Sample ID: 102523NOW8
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	106		ug/L		106	80 - 120
Arsenic	<0.75		1000	948		ug/L		95	80 - 120
Barium	11		1000	935		ug/L		92	80 - 120
Beryllium	<0.62	F1	500	423		ug/L		85	80 - 120
Cadmium	<0.20		500	459		ug/L		92	80 - 120
Calcium	220000		25000	234000	4	ug/L		45	80 - 120
Chromium	<1.2		500	458		ug/L		92	80 - 120
Cobalt	13		500	455		ug/L		89	80 - 120
Lead	<0.45		500	438		ug/L		88	80 - 120
Lithium	8.8		500	452		ug/L		89	80 - 120
Molybdenum	<1.1		500	454		ug/L		91	80 - 120
Selenium	<0.89		1000	914		ug/L		91	80 - 120
Thallium	0.64	J	1000	936		ug/L		94	80 - 120

Lab Sample ID: 240-194365-2 MSD
Matrix: Water
Analysis Batch: 593128

Client Sample ID: 102523NOW8
Prep Type: Total Recoverable
Prep Batch: 592744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.57		100	94.6		ug/L		95	80 - 120	11	20
Arsenic	<0.75		1000	889		ug/L		89	80 - 120	6	20
Barium	11		1000	870		ug/L		86	80 - 120	7	20
Beryllium	<0.62	F1	500	392	F1	ug/L		78	80 - 120	8	20
Cadmium	<0.20		500	432		ug/L		86	80 - 120	6	20
Calcium	220000		25000	211000	4	ug/L		-48	80 - 120	10	20
Chromium	<1.2		500	429		ug/L		86	80 - 120	7	20
Cobalt	13		500	418		ug/L		81	80 - 120	9	20
Lead	<0.45		500	408		ug/L		82	80 - 120	7	20
Lithium	8.8		500	433		ug/L		85	80 - 120	4	20
Molybdenum	<1.1		500	422		ug/L		84	80 - 120	7	20
Selenium	<0.89		1000	864		ug/L		86	80 - 120	6	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-194365-2 MSD — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 593128 — **Prep Batch: 592744**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.64	J	1000	877		ug/L		88	80 - 120	6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-592747/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 592899 — **Prep Batch: 592747**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/30/23 14:00	10/31/23 17:16	1

Lab Sample ID: LCS 240-592747/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 592899 — **Prep Batch: 592747**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.36		ug/L		107	80 - 120

Lab Sample ID: 240-194365-2 MS — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 592899 — **Prep Batch: 592747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13		1.00	1.15		ug/L		115	80 - 120

Lab Sample ID: 240-194365-2 MSD — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 592899 — **Prep Batch: 592747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13		1.00	1.07		ug/L		107	80 - 120	7	20

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 180-450666/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 450666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/31/23 16:17	1

Lab Sample ID: LCS 180-450666/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 450666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	312		mg/L		93	85 - 115

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 240-194365-1 DU
Matrix: Water
Analysis Batch: 450666

Client Sample ID: 102523NOW7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	240			252		mg/L				4	10

Lab Sample ID: 240-194365-2 DU
Matrix: Water
Analysis Batch: 450666

Client Sample ID: 102523NOW8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	890			879		mg/L				1	10

Lab Sample ID: MB 180-450776/1
Matrix: Water
Analysis Batch: 450776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/01/23 21:12	1

Lab Sample ID: LCS 180-450776/2
Matrix: Water
Analysis Batch: 450776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			336	316		mg/L		94	85 - 115		

Lab Sample ID: 240-194365-7 DU
Matrix: Water
Analysis Batch: 450776

Client Sample ID: 102523NOW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	400			415		mg/L				4	10

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-595121/3
Matrix: Water
Analysis Batch: 595121

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			11/18/23 13:07	1
Fluoride	<0.024		0.050	0.024	mg/L			11/18/23 13:07	1
Sulfate	<0.35		1.0	0.35	mg/L			11/18/23 13:07	1

Lab Sample ID: LCS 240-595121/4
Matrix: Water
Analysis Batch: 595121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	50.2		mg/L		100	90 - 110		
Fluoride			2.50	2.60		mg/L		104	90 - 110		
Sulfate			50.0	52.3		mg/L		105	90 - 110		

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-194365-1 MS — **Client Sample ID: 102523NOW7A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100		50.0	150		mg/L		95	80 - 120

Lab Sample ID: 240-194365-1 MSD — **Client Sample ID: 102523NOW7A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		50.0	150		mg/L		95	80 - 120	0	15

Lab Sample ID: 240-194365-2 MS — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		50.0	168		mg/L		97	80 - 120
Fluoride	0.11		2.50	2.89		mg/L		111	80 - 120

Lab Sample ID: 240-194365-2 MS — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	430		250	644		mg/L		86	80 - 120

Lab Sample ID: 240-194365-2 MSD — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		50.0	164		mg/L		89	80 - 120	2	15
Fluoride	0.11		2.50	2.66		mg/L		102	80 - 120	8	15

Lab Sample ID: 240-194365-2 MSD — **Client Sample ID: 102523NOW8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	430		250	656		mg/L		91	80 - 120	2	15

Lab Sample ID: MB 240-595388/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			11/22/23 23:40	1
Fluoride	<0.024		0.050	0.024	mg/L			11/22/23 23:40	1
Sulfate	<0.35		1.0	0.35	mg/L			11/22/23 23:40	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-595388/4
Matrix: Water
Analysis Batch: 595388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.2		mg/L		96	90 - 110
Fluoride	2.50	2.50		mg/L		100	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: 240-194365-1 MS
Matrix: Water
Analysis Batch: 595388

Client Sample ID: 102523NOW7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	96	H	50.0	138		mg/L		84	80 - 120
Fluoride	0.12	H	2.50	2.57		mg/L		98	80 - 120
Sulfate	8.6	H	50.0	56.5		mg/L		96	80 - 120

Lab Sample ID: 240-194365-1 MSD
Matrix: Water
Analysis Batch: 595388

Client Sample ID: 102523NOW7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	96	H	50.0	138		mg/L		84	80 - 120	0	15
Fluoride	0.12	H	2.50	2.64		mg/L		101	80 - 120	3	15
Sulfate	8.6	H	50.0	57.5		mg/L		98	80 - 120	2	15

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-634954/1-A
Matrix: Water
Analysis Batch: 639153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634954

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02155	U	0.0631	0.0631	1.00	0.140	pCi/L	11/02/23 09:49	12/01/23 16:17	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.5*		*30 - 110*	*11/02/23 09:49*	*12/01/23 16:17*	*1*

Lab Sample ID: LCS 160-634954/2-A
Matrix: Water
Analysis Batch: 639153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634954

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	11.71		1.24	1.00	0.147	pCi/L	103	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.0*		*30 - 110*

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-194365-2 MS
Matrix: Water
Analysis Batch: 638995

Client Sample ID: 102523NOW8
Prep Type: Total/NA
Prep Batch: 634954

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.00559	U	11.4	9.341		1.03	1.00	0.131	pCi/L	82	60 - 140

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*95.1*		*30 - 110*

Lab Sample ID: 240-194365-2 MSD
Matrix: Water
Analysis Batch: 638995

Client Sample ID: 102523NOW8
Prep Type: Total/NA
Prep Batch: 634954

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.00559	U	11.3	9.460		1.04	1.00	0.150	pCi/L	84	60 - 140	0.06	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*96.5*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-638567/1-A
Matrix: Water
Analysis Batch: 639397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638567

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4721	U	0.397	0.399	1.00	0.628	pCi/L	11/28/23 11:06	12/05/23 11:20	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:20*	*1*
Y Carrier	*85.2*		*30 - 110*	*11/28/23 11:06*	*12/05/23 11:20*	*1*

Lab Sample ID: LCS 160-638567/2-A
Matrix: Water
Analysis Batch: 639397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638567

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228			9.43	9.785		1.30	1.00	0.503	pCi/L	104	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.8*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-194365-2 DU
Matrix: Water
Analysis Batch: 639537

Client Sample ID: 102523NOW8
Prep Type: Total/NA
Prep Batch: 638567

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.204	U		0.2158	U	0.311	1.00	0.524	pCi/L			0.02	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*93.0*		*30 - 110*
Y Carrier	*80.0*		*30 - 110*

Metals

Prep Batch: 592744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total Recoverable	Water	3005A	
240-194365-2	102523NOW8	Total Recoverable	Water	3005A	
240-194365-3	102523NOW2A	Total Recoverable	Water	3005A	
240-194365-4	102523NOW4A	Total Recoverable	Water	3005A	
240-194365-5	102523NOW10	Total Recoverable	Water	3005A	
240-194365-6	102523NOW12	Total Recoverable	Water	3005A	
240-194365-7	102523NOW13	Total Recoverable	Water	3005A	
240-194365-8	102523FBFIELDBLANK	Total Recoverable	Water	3005A	
240-194365-9	102523FDDUPLICATE	Total Recoverable	Water	3005A	
MB 240-592744/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-592744/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-592744/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-194365-2 MS	102523NOW8	Total Recoverable	Water	3005A	
240-194365-2 MS	102523NOW8	Total Recoverable	Water	3005A	
240-194365-2 MSD	102523NOW8	Total Recoverable	Water	3005A	
240-194365-2 MSD	102523NOW8	Total Recoverable	Water	3005A	

Prep Batch: 592747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	7470A	
240-194365-2	102523NOW8	Total/NA	Water	7470A	
240-194365-3	102523NOW2A	Total/NA	Water	7470A	
240-194365-4	102523NOW4A	Total/NA	Water	7470A	
240-194365-5	102523NOW10	Total/NA	Water	7470A	
240-194365-6	102523NOW12	Total/NA	Water	7470A	
240-194365-7	102523NOW13	Total/NA	Water	7470A	
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	7470A	
240-194365-9	102523FDDUPLICATE	Total/NA	Water	7470A	
MB 240-592747/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-592747/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-194365-2 MS	102523NOW8	Total/NA	Water	7470A	
240-194365-2 MSD	102523NOW8	Total/NA	Water	7470A	

Analysis Batch: 592899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	7470A	592747
240-194365-2	102523NOW8	Total/NA	Water	7470A	592747
240-194365-3	102523NOW2A	Total/NA	Water	7470A	592747
240-194365-4	102523NOW4A	Total/NA	Water	7470A	592747
240-194365-5	102523NOW10	Total/NA	Water	7470A	592747
240-194365-6	102523NOW12	Total/NA	Water	7470A	592747
240-194365-7	102523NOW13	Total/NA	Water	7470A	592747
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	7470A	592747
240-194365-9	102523FDDUPLICATE	Total/NA	Water	7470A	592747
MB 240-592747/1-A	Method Blank	Total/NA	Water	7470A	592747
LCS 240-592747/2-A	Lab Control Sample	Total/NA	Water	7470A	592747
240-194365-2 MS	102523NOW8	Total/NA	Water	7470A	592747
240-194365-2 MSD	102523NOW8	Total/NA	Water	7470A	592747

Metals

Analysis Batch: 592957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total Recoverable	Water	6010D	592744
240-194365-2	102523NOW8	Total Recoverable	Water	6010D	592744
240-194365-3	102523NOW2A	Total Recoverable	Water	6010D	592744
240-194365-4	102523NOW4A	Total Recoverable	Water	6010D	592744
240-194365-5	102523NOW10	Total Recoverable	Water	6010D	592744
240-194365-6	102523NOW12	Total Recoverable	Water	6010D	592744
240-194365-7	102523NOW13	Total Recoverable	Water	6010D	592744
240-194365-8	102523FBFIELDBLANK	Total Recoverable	Water	6010D	592744
240-194365-9	102523FDDUPLICATE	Total Recoverable	Water	6010D	592744
MB 240-592744/1-A	Method Blank	Total Recoverable	Water	6010D	592744
LCS 240-592744/2-A	Lab Control Sample	Total Recoverable	Water	6010D	592744
240-194365-2 MS	102523NOW8	Total Recoverable	Water	6010D	592744
240-194365-2 MSD	102523NOW8	Total Recoverable	Water	6010D	592744

Analysis Batch: 593128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total Recoverable	Water	6020B	592744
240-194365-2	102523NOW8	Total Recoverable	Water	6020B	592744
240-194365-3	102523NOW2A	Total Recoverable	Water	6020B	592744
240-194365-4	102523NOW4A	Total Recoverable	Water	6020B	592744
240-194365-5	102523NOW10	Total Recoverable	Water	6020B	592744
240-194365-6	102523NOW12	Total Recoverable	Water	6020B	592744
240-194365-7	102523NOW13	Total Recoverable	Water	6020B	592744
240-194365-8	102523FBFIELDBLANK	Total Recoverable	Water	6020B	592744
240-194365-9	102523FDDUPLICATE	Total Recoverable	Water	6020B	592744
MB 240-592744/1-A	Method Blank	Total Recoverable	Water	6020B	592744
LCS 240-592744/3-A	Lab Control Sample	Total Recoverable	Water	6020B	592744
240-194365-2 MS	102523NOW8	Total Recoverable	Water	6020B	592744
240-194365-2 MSD	102523NOW8	Total Recoverable	Water	6020B	592744

General Chemistry

Analysis Batch: 450666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	2540C - 2015	
240-194365-2	102523NOW8	Total/NA	Water	2540C - 2015	
240-194365-3	102523NOW2A	Total/NA	Water	2540C - 2015	
240-194365-4	102523NOW4A	Total/NA	Water	2540C - 2015	
240-194365-5	102523NOW10	Total/NA	Water	2540C - 2015	
240-194365-6	102523NOW12	Total/NA	Water	2540C - 2015	
MB 180-450666/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 180-450666/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194365-1 DU	102523NOW7A	Total/NA	Water	2540C - 2015	
240-194365-2 DU	102523NOW8	Total/NA	Water	2540C - 2015	

Analysis Batch: 450776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-7	102523NOW13	Total/NA	Water	2540C - 2015	
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	2540C - 2015	
240-194365-9	102523FDDUPLICATE	Total/NA	Water	2540C - 2015	
MB 180-450776/1	Method Blank	Total/NA	Water	2540C - 2015	

General Chemistry (Continued)

Analysis Batch: 450776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-450776/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194365-7 DU	102523NOW13	Total/NA	Water	2540C - 2015	

Analysis Batch: 595121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	9056A	
240-194365-2	102523NOW8	Total/NA	Water	9056A	
240-194365-2	102523NOW8	Total/NA	Water	9056A	
240-194365-3	102523NOW2A	Total/NA	Water	9056A	
240-194365-4	102523NOW4A	Total/NA	Water	9056A	
240-194365-5	102523NOW10	Total/NA	Water	9056A	
240-194365-6	102523NOW12	Total/NA	Water	9056A	
240-194365-6	102523NOW12	Total/NA	Water	9056A	
240-194365-7	102523NOW13	Total/NA	Water	9056A	
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	9056A	
240-194365-9	102523FDDUPLICATE	Total/NA	Water	9056A	
MB 240-595121/3	Method Blank	Total/NA	Water	9056A	
LCS 240-595121/4	Lab Control Sample	Total/NA	Water	9056A	
240-194365-1 MS	102523NOW7A	Total/NA	Water	9056A	
240-194365-1 MSD	102523NOW7A	Total/NA	Water	9056A	
240-194365-2 MS	102523NOW8	Total/NA	Water	9056A	
240-194365-2 MS	102523NOW8	Total/NA	Water	9056A	
240-194365-2 MSD	102523NOW8	Total/NA	Water	9056A	
240-194365-2 MSD	102523NOW8	Total/NA	Water	9056A	

Analysis Batch: 595388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1 - RA	102523NOW7A	Total/NA	Water	9056A	
240-194365-3 - RA	102523NOW2A	Total/NA	Water	9056A	
240-194365-5 - RA	102523NOW10	Total/NA	Water	9056A	
MB 240-595388/3	Method Blank	Total/NA	Water	9056A	
LCS 240-595388/4	Lab Control Sample	Total/NA	Water	9056A	
240-194365-1 MS	102523NOW7A	Total/NA	Water	9056A	
240-194365-1 MSD	102523NOW7A	Total/NA	Water	9056A	

Rad

Prep Batch: 634954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	PrecSep-21	
240-194365-2	102523NOW8	Total/NA	Water	PrecSep-21	
240-194365-3	102523NOW2A	Total/NA	Water	PrecSep-21	
240-194365-4	102523NOW4A	Total/NA	Water	PrecSep-21	
240-194365-5	102523NOW10	Total/NA	Water	PrecSep-21	
240-194365-6	102523NOW12	Total/NA	Water	PrecSep-21	
240-194365-7	102523NOW13	Total/NA	Water	PrecSep-21	
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	PrecSep-21	
240-194365-9	102523FDDUPLICATE	Total/NA	Water	PrecSep-21	
MB 160-634954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-634954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194365-2 MS	102523NOW8	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 634954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-2 MSD	102523NOW8	Total/NA	Water	PrecSep-21	

Prep Batch: 638567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194365-1	102523NOW7A	Total/NA	Water	PrecSep_0	
240-194365-2	102523NOW8	Total/NA	Water	PrecSep_0	
240-194365-3	102523NOW2A	Total/NA	Water	PrecSep_0	
240-194365-4	102523NOW4A	Total/NA	Water	PrecSep_0	
240-194365-5	102523NOW10	Total/NA	Water	PrecSep_0	
240-194365-6	102523NOW12	Total/NA	Water	PrecSep_0	
240-194365-7	102523NOW13	Total/NA	Water	PrecSep_0	
240-194365-8	102523FBFIELDBLANK	Total/NA	Water	PrecSep_0	
240-194365-9	102523FDDUPLICATE	Total/NA	Water	PrecSep_0	
MB 160-638567/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638567/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194365-2 DU	102523NOW8	Total/NA	Water	PrecSep_0	

Client Sample ID: 102523NOW7A

Lab Sample ID: 240-194365-1

Date Collected: 10/25/23 09:35

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:19
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:03
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:31
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A	RA	1	595388	JWW	EET CLE	11/23/23 00:24
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 21:11
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:07
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639508	FLC	EET SL	12/05/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW8

Lab Sample ID: 240-194365-2

Date Collected: 10/25/23 09:25

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 21:50
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 18:51
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:24
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 13:47
Total/NA	Analysis	9056A		5	595121	JWW	EET CLE	11/18/23 14:48
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:07
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW2A

Lab Sample ID: 240-194365-3

Date Collected: 10/25/23 12:10

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:24
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:05

Client Sample ID: 102523NOW2A

Lab Sample ID: 240-194365-3

Date Collected: 10/25/23 12:10

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:33
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A	RA	1	595388	JWW	EET CLE	11/23/23 01:29
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 22:11
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:08
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW4A

Lab Sample ID: 240-194365-4

Date Collected: 10/25/23 12:50

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:28
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:08
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:35
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 19:30
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:08
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW10

Lab Sample ID: 240-194365-5

Date Collected: 10/25/23 11:00

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:32
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:10
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:37
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A	RA	1	595388	JWW	EET CLE	11/23/23 01:50
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 22:31

Lab Chronicle

Client: Dominion Energy Services, Inc.
Job ID: 240-194365-1
Project/Site: MSPS-2SA2023-LVWSP-D

Client Sample ID: 102523NOW10
Lab Sample ID: 240-194365-5
Date Collected: 10/25/23 11:00
Matrix: Water
Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:08
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW12
Lab Sample ID: 240-194365-6
Date Collected: 10/25/23 14:00
Matrix: Water
Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:37
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:18
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:39
Total/NA	Analysis	2540C - 2015		1	450666	LWM	EET PIT	10/31/23 16:17
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 18:29
Total/NA	Analysis	9056A		5	595121	JWW	EET CLE	11/18/23 18:50
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:09
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523NOW13
Lab Sample ID: 240-194365-7
Date Collected: 10/25/23 11:25
Matrix: Water
Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:41
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:20
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:41
Total/NA	Analysis	2540C - 2015		1	450776	LWM	EET PIT	11/01/23 21:12
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 17:49
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:09
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/04/23 16:01

Client Sample ID: 102523FBFIELDBLANK

Lab Sample ID: 240-194365-8

Date Collected: 10/25/23 10:25

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:45
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:23
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:47
Total/NA	Analysis	2540C - 2015		1	450776	LWM	EET PIT	11/01/23 21:12
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 18:09
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:09
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:19
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/05/23 17:03

Client Sample ID: 102523FDDUPLICATE

Lab Sample ID: 240-194365-9

Date Collected: 10/25/23 13:00

Matrix: Water

Date Received: 10/27/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6010D		1	592957	KLC	EET CLE	10/31/23 22:58
Total Recoverable	Prep	3005A			592744	S4FJ	EET CLE	10/30/23 14:00
Total Recoverable	Analysis	6020B		1	593128	RKT	EET CLE	11/01/23 19:25
Total/NA	Prep	7470A			592747	S4FJ	EET CLE	10/30/23 14:00
Total/NA	Analysis	7470A		1	592899	DSH	EET CLE	10/31/23 17:49
Total/NA	Analysis	2540C - 2015		1	450776	LWM	EET PIT	11/01/23 21:12
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 19:10
Total/NA	Prep	PrecSep-21			634954	KAC	EET SL	11/02/23 09:49
Total/NA	Analysis	9315		1	638995	SCB	EET SL	12/01/23 18:09
Total/NA	Prep	PrecSep_0			638567	KAC	EET SL	11/28/23 11:06
Total/NA	Analysis	9320		1	639537	FLC	EET SL	12/05/23 11:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	639385	EMH	EET SL	12/05/23 17:03

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Job ID: 240-194365-1
Project/Site: MSPS-2SA2023-LVWSP-D

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	01-31-24

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	12-20-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228

COC ID: MSPS-25A2023-LVWSP-D-3-1

5903 0984 9147
5903 0984 9136

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: C. Megee, M. Knee	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 5903 0984 9217	COC No: 240-113184-40247.1
Client Contact: Crystal Shadle	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: WV	Page: Page 1 of 2
Company: WSP USA Inc	PWSID:			Job #:
Address: 1100 Boulders Parkway Suite 503	Due Date Requested:			
City: Richmond	TAT Requested (days): STANDARD TAT			
State, Zip: VA, 23227	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 50168481			
Email: crystal.shadle@wsp.com	WO #: 31406066.005			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

All Samples preserved on ice.

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226, 9320_Ra228	2540C_Calcd - TDS	6010C, 6020A, 7470A	9056A_28D - Anions Chloride, Fluoride, Sulfate	pH SU							Total Number of containers	Special Instructions/Note:
Preservation Code:							D	N	D	N									
10 25 23NOW7A	10/25/23	0935	G	Water			X	X	X	X	6.03							5	
10 25 23NOW8	10/25/23	0925	G	Water		X	X	X	X	X	6.44							15	102523MSMatrixSpike / 102523MSDMatrixSpikeDup taken @ 0H-8
10 25 23NOW2A	10/25/23	1210	G	Water			X	X	X	X	6.42							5	
10 25 23NOW4A	10/25/23	1250	G	Water			X	X	X	X	6.89							5	
10 25 23NOW10	10/25/23	1100	G	Water			X	X	X	X	6.40							5	
10 25 23NOW12	10/25/23	1400	G	Water			X	X	X	X	6.12							5	
10 25 23NOW13	10/25/23	1125	G	Water			X	X	X	X	6.28							5	
10 25 23FBField Blank	10/25/23	1025	G	Water			X	X	X	X								5	
10 25 23FDDuplicate	10/25/23	1300	G	Water			X	X	X	X								5	
~~10 23MSMatrixSpike~~ in				Water															
~~10 23MSDMatrixSpikeDup~~ in				Water															

240-194365 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II Data Package

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	10/26/23 @ 0830	WSP	Rachelle Hurd	102723 920	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Virginia Beach #202

12/28/2023

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** 194365
Barberton Facility

Client USP Site Name _____ Cooler unpacked by: Rachelle Haidet

Cooler Received on 10-27-23 Opened on 10-27-23

FedEx: 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form

IR GUN # 21 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	(Yes)	No NA pH Strip Lot# HC316719
14. Were VOAs on the COC?	Yes	(No)
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No (NA)
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login #: 194365

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC (circled) Client Box Other	IR GUN #: 21	2.7	2.5	Wet Ice (circled) Blue Ice Dry Ice Water None
EC (circled) Client Box Other	IR GUN #: 21	4.6	4.4	Wet Ice (circled) Blue Ice Dry Ice Water None
EC (circled) Client Box Other	IR GUN #: 21	1.4	1.2	Wet Ice (circled) Blue Ice Dry Ice Water None
EC (circled) Client Box Other	IR GUN #: 21	2.3	2.1	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservative Added (mls)	Lot #
102523NOW7A	240-194365-C-1	Plastic 500ml - with Nitric Acid	<2			
102523NOW7A	240-194365-D-1	Plastic 1 liter - Nitric Acid	<2			
102523NOW7A	240-194365-E-1	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-G-2	Plastic 500ml - with Nitric Acid	<2			
102523NOW8	240-194365-H-2	Plastic 500ml - with Nitric Acid	<2			
102523NOW8	240-194365-I-2	Plastic 500ml - with Nitric Acid	<2			
102523NOW8	240-194365-J-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-K-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-L-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-M-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-N-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW8	240-194365-O-2	Plastic 1 liter - Nitric Acid	<2			
102523NOW2A	240-194365-C-3	Plastic 500ml - with Nitric Acid	<2			
102523NOW2A	240-194365-D-3	Plastic 1 liter - Nitric Acid	<2			
102523NOW2A	240-194365-E-3	Plastic 1 liter - Nitric Acid	<2			
102523NOW4A	240-194365-C-4	Plastic 500ml - with Nitric Acid	<2			
102523NOW4A	240-194365-D-4	Plastic 1 liter - Nitric Acid	<2			
102523NOW4A	240-194365-E-4	Plastic 1 liter - Nitric Acid	<2			
102523NOW10	240-194365-C-5	Plastic 500ml - with Nitric Acid	<2			
102523NOW10	240-194365-D-5	Plastic 1 liter - Nitric Acid	<2			
102523NOW10	240-194365-E-5	Plastic 1 liter - Nitric Acid	<2			
102523NOW12	240-194365-C-6	Plastic 500ml - with Nitric Acid	<2			
102523NOW12	240-194365-D-6	Plastic 1 liter - Nitric Acid	<2			
102523NOW12	240-194365-E-6	Plastic 1 liter - Nitric Acid	<2			
102523NOW13	240-194365-C-7	Plastic 500ml - with Nitric Acid	<2			
102523NOW13	240-194365-D-7	Plastic 1 liter - Nitric Acid	<2			
102523NOW13	240-194365-E-7	Plastic 1 liter - Nitric Acid	<2			
102523FBFIELD BLANK	240-194365-C-8	Plastic 500ml - with Nitric Acid	<2			
102523FBFIELD BLANK	240-194365-D-8	Plastic 1 liter - Nitric Acid	<2			
102523FBFIELD BLANK	240-194365-E-8	Plastic 1 liter - Nitric Acid	<2			
102523FDDUPLICATE	240-194365-C-9	Plastic 500ml - with Nitric Acid	<2			
102523FDDUPLICATE	240-194365-D-9	Plastic 1 liter - Nitric Acid	<2			
102523FDDUPLICATE	240-194365-E-9	Plastic 1 liter - Nitric Acid	<2			


JAMES BISHOP
EUROFINS
1244 EXECUTIVE BLVD. SUITE B-114
CHESAPEAKE, VA 23320
UNITED STATES US
ACTWGT: 20.00 LB MAN
CAD: 0415933/CAFE3753
BILL RECIPIENT
TO SMPLE RECEIVING
EROFINS CLEVELAND
1 S. VAN BUREN AVE
RBERTON OH 44203
REF:
DEPT:
FedEx Express
FRI 27 OCT AA
PRIORITY OVERNIGHT
44203
OH-US
CLE
FedEx
TRK# 5903 0984 9136
0263
64 CAKA
240-194365 Waybill

65 AGCA

15238 PIT PA-US

TRK# 0201 6549 1096 1373

PRIORITY OVERNIGHT

SATURDAY 12:00F

FedEx Express

Uncorrected temp 5.1 °C
Thermometer ID 17

CF Initials

PT-WI-SR-001 effective 11/8/18

TO: (412) 963-7058 REF.
PO: DEPT:

PITTSBURGH PA 15238
CHRIS KOVITCH
301 ALPHA DRIVE
EUROFINS PITTSBURGH

10 ENVIRONMENTAL SAMPLE RECEIPT

UNITED STATES US BARBERTON, OH 44203	BILL THIRD PARTY
180 S VAN BUREN EUROFINS TESTAMERICA BARBERTON LANCE HERSHMAN	CAD: 05620652/CAFE3755 ACTWGT: 55.00 LB MAN
ORIGIN ID:CAKA (330) 312-0176	SHIP DATE: 27OCT23

RT 639 1 12:00 A
1373
10.28
FZ

Environment Testing
TestAmerica

Part # 159470-434 MTW EXP 06/24

240-194365 Waybill

FedEx

65 AGCA

15238 PIT PA-US

TRK# 0201 6549 1096 1373 PRIORITY OVERNIGHT

SATURDAY 12:00P

FedEx Express

CF Initials

PT-WI-SR-001 effective 11/8/18

Uncorrected temp 5.1 °C

Thermometer ID 17

DEPT:

PO:

INV: (412) 963-7058 REF.

PITTSBURGH PA 15238
CHRIS KOVITCH
301 ALPHA DRIVE
EUROFINS PITTSBURGH

10 ENVIRONMENTAL SAMPLE RECEIPT

ORIGIN ID:CAKA (330) 312-0176 LANCE HERSHMAN EUROFINS TESTAMERICA BARBERTON 180 S VAN BUREN BARBERTON, OH 44203 UNITED STATES US	SHIP DATE: 27OCT23 ACTWGT: 55.00 LB MAN CAD: 0562065/CAFE3755 BILL THIRD PARTY

RT 639 1 12:00 A
1373
10.28
FZ

Environment Testing
TestAmerica

Part # 159470-434 MTW EXP 06/24

240-194365 Waybill

FedEx®

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175902.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virgini ...		Job #: 240-194365-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/9/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium 226	9320_Ra228/PrecSep_0 Radium 228	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
102523NOW7A (240-194365-1)	10/25/23	09:35 Eastern		Water			X	X	X	2	
102523NOW8 (240-194365-2)	10/25/23	09:25 Eastern		Water			X	X	X	6	
102523NOW8 (240-194365-2MS)	10/25/23	09:25 Eastern	MS	Water			X	X	X	1	
102523NOW8 (240-194365-2MSD)	10/25/23	09:25 Eastern	MSD	Water			X	X	X	1	
102523NOW2A (240-194365-3)	10/25/23	12:10 Eastern		Water			X	X	X	2	
102523NOW4A (240-194365-4)	10/25/23	12:50 Eastern		Water			X	X	X	2	
102523NOW10 (240-194365-5)	10/25/23	11:00 Eastern		Water			X	X	X	2	
102523NOW12 (240-194365-6)	10/25/23	14:00 Eastern		Water			X	X	X	2	
102523NOW13 (240-194365-7)	10/25/23	11:25 Eastern		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 102723 1515	Company: EEN	Received by: [signature] Date/Time: 10/28/23 930 Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175902.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virgini ...		Job #: 240-194365-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/9/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Mount Storm Power Station	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium 226	9320_Ra228/PrecSep_0 Radium 228	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
102523FBFIELD BLANK (240-194365-8)	10/25/23	10:25 Eastern		Water			X	X	X	2	
102523FDDUPLICATE (240-194365-9)	10/25/23	13:00 Eastern		Water			X	X	X	2	

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by: [signature]	Date/Time: 10/27/23 1515	Company: EETNC	Received by: [signature]	Date/Time: 10/28/23 930	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

TDS 6BB

Chain of Custody Record


240-194365 Chain of Custody

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	C No: 0-175903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eu	Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - West Virginia DEP	Job #: 240-194365-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 11/30/2023		
City: Pittsburgh	TAT Requested (days):		
State, Zip: PA, 15238			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:		
Email:	WO #:		
Project Name: MSPS-2SA2023-LVWSP-D	Project #: 24021758		
Site:	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
102523NOW7A (240-194365-1)	10/25/23	09:35 Eastern		Water			X	1	
102523NOW8 (240-194365-2)	10/25/23	09:25 Eastern		Water			X	3	
102523NOW8 (240-194365-2DU)	10/25/23	09:25 Eastern	DU	Water			X	1	
102523NOW2A (240-194365-3)	10/25/23	12:10 Eastern		Water			X	1	
102523NOW4A (240-194365-4)	10/25/23	12:50 Eastern		Water			X	1	
102523NOW10 (240-194365-5)	10/25/23	11:00 Eastern		Water			X	1	
102523NOW12 (240-194365-6)	10/25/23	14:00 Eastern		Water			X	1	
102523NOW13 (240-194365-7)	10/25/23	11:25 Eastern		Water			X	1	
102523FBFIELDBLANK (240-194365-8)	10/25/23	10:25 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Rachelle Hauer	Date/Time: 10/27/23 1540	Company: EETNC	Received by:	Date/Time: 10/28/23 0945	Company: EETNC	
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks.	

12/28/2023

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175903.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - West Virginia DEP		Job #: 240-194365-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 11/30/2023	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: MSPS-2SA2023-LVWSP-D	Project #: 24021758			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
102523FDDUPLICATE (240-194365-9)	10/25/23	13:00 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 10/27/23 1540	Company: EETNC	Received by: [signature]	Date/Time: 10/28/23 0745	Company: [illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

TDS 6BP

Chain of Custody Record


240-194365 Chain of Custody

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	C No 0-175903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eu	Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note). State Program - West Virginia DEP	Job #: 240-194365-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 11/30/2023		
City: Pittsburgh	TAT Requested (days):		
State, Zip: PA, 15238			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:		
Email:	WO #:		
Project Name: MSPS-2SA2023-LVWSP-D	Project #: 24021758		
Site:	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitnc Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Tnzma
	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
102523NOW7A (240-194365-1)	10/25/23	09:35 Eastern		Water			X	1	
102523NOW8 (240-194365-2)	10/25/23	09:25 Eastern		Water			X	3	
102523NOW8 (240-194365-2DU)	10/25/23	09:25 Eastern	DU	Water			X	1	
102523NOW2A (240-194365-3)	10/25/23	12:10 Eastern		Water			X	1	
102523NOW4A (240-194365-4)	10/25/23	12:50 Eastern		Water			X	1	
102523NOW10 (240-194365-5)	10/25/23	11:00 Eastern		Water			X	1	
102523NOW12 (240-194365-6)	10/25/23	14:00 Eastern		Water			X	1	
102523NOW13 (240-194365-7)	10/25/23	11:25 Eastern		Water			X	1	
102523FBFIELDBLANK (240-194365-8)	10/25/23	10:25 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Rachelle Nunez	Date/Time: 102723 1540	Company EETNC	Received by:	Date/Time: 10/28/23 0945	Company EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

12/28/2023

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175903.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - West Virginia DEP		Job #: 240-194365-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 11/30/2023			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: MSPS-2SA2023-LVWSP-D	Project #: 24021758			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of containers	Special Instructions/Note:
Preservation Code:									
102523FDDUPLICATE (240-194365-9)	10/25/23	13:00 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/27/23 1540	Company: ETNC	Received by:	Date/Time: 10/28/23 0945	Company: ETNC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

12/28/2023

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194365-1

Login Number: 194365
List Number: 2
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 10/28/23 03:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194365-1

Login Number: 194365
List Number: 4
Creator: Oster, Rachel A

List Source: Eurofins Pittsburgh
List Creation: 10/31/23 06:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194365-1

Login Number: 194365
List Number: 3
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/30/23 02:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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:

Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 10/23/2023 and 10/26/2023

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:

2401943651

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
102523NOW7A	OW-7A	N	CALC	Radium-226/228	N	0.567	J	S			0.463	pCi/L
102523NOW7A	OW-7A	N	SW-846 6020B	Antimony	T	0.57	J	RL	0.57	2.0		ug/L
102523NOW8	OW-8	N	SM 2540C	Total Dissolved Solids	N	890	J	ZZ	10	10		mg/L
102523NOW8	OW-8	N	SW-846 6020B	Lithium	T		U	BF	8.8	8.8		ug/L
102523NOW8	OW-8	N	SW-846 6020B	Thallium	T	0.64	J	RL	0.20	1.0		ug/L
102523NOW2A	OW-2A	N	CALC	Radium-226/228	N	0.987	J	S			0.410	pCi/L
102523NOW2A	OW-2A	N	SW-846 6010D	Boron	T	88	J	RL	57	100		ug/L
102523NOW2A	OW-2A	N	SW-846 6020B	Cadmium	T	0.67	J	RL	0.20	1.0		ug/L
102523NOW2A	OW-2A	N	SW-846 6020B	Lithium	T		U	BF	5.4	8.0		ug/L
102523NOW2A	OW-2A	N	SW-846 6020B	Molybdenum	T	1.4	J	RL	1.1	5.0		ug/L
102523NOW2A	OW-2A	N	SW-846 6020B	Thallium	T	0.56	J	RL	0.20	1.0		ug/L
102523NOW4A	OW-4A	N	CALC	Radium-226/228	N	0.756	J	FD,S			0.410	pCi/L
102523NOW4A	OW-4A	N	SM 2540C	Total Dissolved Solids	N	120	J	ZZ	10	10		mg/L
102523NOW4A	OW-4A	N	SW-846 6010D	Boron	T	74	J	RL	57	100		ug/L
102523NOW4A	OW-4A	N	SW-846 6020B	Arsenic	T	0.96	J	RL	0.75	5.0		ug/L
102523NOW4A	OW-4A	N	SW-846 6020B	Cobalt	T	0.39	J	RL	0.19	1.0		ug/L
102523NOW4A	OW-4A	N	SW-846 6020B	Lithium	T		U	BF	3.4	8.0		ug/L
102523NOW4A	OW-4A	N	SW-846 6020B	Molybdenum	T	1.5	J	RL	1.1	5.0		ug/L
102523NOW4A	OW-4A	N	SW-846 6020B	Thallium	T	0.34	J	RL	0.20	1.0		ug/L
102523NOW4A	OW-4A	N	SW-846 9320	Radium-228	N	0.683	J	FD	0.576	1.00	0.402	pCi/L
102523NOW10	OW-10	N	CALC	Radium-226/228	N	0.714	J	S			0.430	pCi/L
102523NOW10	OW-10	N	SM 2540C	Total Dissolved Solids	N	240	J	ZZ	10	10		mg/L
102523NOW10	OW-10	N	SW-846 6010D	Boron	T	67	J	RL	57	100		ug/L
102523NOW10	OW-10	N	SW-846 6020B	Cobalt	T	0.36	J	RL	0.19	1.0		ug/L
102523NOW10	OW-10	N	SW-846 6020B	Lithium	T		U	BF	9.5	9.5		ug/L
102523NOW10	OW-10	N	SW-846 6020B	Thallium	T	0.23	J	RL	0.20	1.0		ug/L
102523NOW12	OW-12	N	CALC	Radium-226/228	N	0.604	J	S			0.451	pCi/L
102523NOW12	OW-12	N	SM 2540C	Total Dissolved Solids	N	680	J	ZZ	10	10		mg/L
102523NOW12	OW-12	N	SW-846 6010D	Boron	T	62	J	RL	57	100		ug/L
102523NOW12	OW-12	N	SW-846 6020B	Arsenic	T	0.83	J	RL	0.75	5.0		ug/L

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
102523NOW12	OW-12	N	SW-846 6020B	Chromium	T	1.6	J	RL	1.2	5.0		ug/L
102523NOW12	OW-12	N	SW-846 6020B	Thallium	T	0.20	J	RL	0.20	1.0		ug/L
102523NOW12	OW-12	N	SW-846 9056A	Fluoride	N	0.031	J	RL	0.024	0.050		mg/L
102523NOW13	OW-13	N	CALC	Radium-226/228	N	1.28	J	S			0.847	pCi/L
102523NOW13	OW-13	N	SW-846 6020B	Lithium	T		U	BF	4.4	8.0		ug/L
102523NOW13	OW-13	N	SW-846 6020B	Selenium	T	1.2	J	RL	0.89	5.0		ug/L
102523NOW13	OW-13	N	SW-846 9056A	Fluoride	N	0.027	J	RL	0.024	0.050		mg/L
102523FBFIELDBLANK_1025	Field Blank	FB	SW-846 6020B	Lithium	T	2.1	J	RL	1.7	8.0		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	CALC	Radium-226/228	N	0.236	UJ	FD			0.325	pCi/L
102523FDDUPLICATE_1300	OW-4A	FD	SM 2540C	Total Dissolved Solids	N	110	J	ZZ	10	10		mg/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 6010D	Boron	T	72	J	RL	57	100		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 6020B	Arsenic	T	1.2	J	RL	0.75	5.0		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 6020B	Cobalt	T	0.31	J	RL	0.19	1.0		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 6020B	Lithium	T		U	BF	3.2	8.0		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 6020B	Molybdenum	T	1.4	J	RL	1.1	5.0		ug/L
102523FDDUPLICATE_1300	OW-4A	FD	SW-846 9320	Radium-228	N	0.110	UJ	FD	0.545	1.00	0.307	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: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-1
Sys Sample Code	102523NOW7A
Sample Name	102523NOW7A
Sample Date	10/25/2023 9:35:00 AM
Location	MSPS-LVWSP-OW-07A / OW-7A
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	Radium-226/228	RA226/228	N	pCi/L	0.567	J	S	0.463				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	240				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L	0.57	J	RL		0.57	0.57	2.0	Y	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	290				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	41000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	3.1				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	14				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	1.2				0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	100				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.15				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	9.4				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.159			0.102	0.136	0.136	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.409	U		0.452	0.734	0.734	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-2
Sys Sample Code	102523NOW8
Sample Name	102523NOW8
Sample Date	10/25/2023 9:25:00 AM
Location	MSPS-LVWSP-OW-08 / OW-8
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	Radium-226/228	RA226/228	N	pCi/L	0.209	U		0.321				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	890	J	ZZ		10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	11				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	220000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	13				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		8.8	8.8	8.8	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.64	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	120				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.11				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	430				1.7	1.7	5.0	Y	Yes	5	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.00559	U		0.0646	0.132	0.132	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.204	U		0.314	0.531	0.531	1.00	N	Yes	1	NA

Lab Sample ID	240-194365-3
Sys Sample Code	102523NOW2A
Sample Name	102523NOW2A
Sample Date	10/25/2023 12:10:00 PM
Location	MSPS-LVWSP-OW-02A / OW-2A
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	Radium-226/228	RA226/228	N	pCi/L	0.987	J	S	0.410				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	370				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	88	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	150				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.67	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	87000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	39				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		5.4	5.4	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.4	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.56	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	28				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.15				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	47				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.572			0.168	0.123	0.123	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.415	U		0.374	0.591	0.591	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-4
Sys Sample Code	102523NOW4A
Sample Name	102523NOW4A
Sample Date	10/25/2023 12:50:00 PM
Location	MSPS-LVWSP-OW-04A / OW-4A
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	Radium-226/228	RA226/228	N	pCi/L	0.756	J	FD,S	0.410				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	120	J	ZZ		10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	74	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.96	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	86				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	27000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.39	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		3.4	3.4	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.5	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.34	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	8.5				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.10				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	37				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0728	U		0.0811	0.129	0.129	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.683	J	FD	0.402	0.576	0.576	1.00	Y	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-5
Sys Sample Code	102523NOW10
Sample Name	102523NOW10
Sample Date	10/25/2023 11:00:00 AM
Location	MSPS-LVWSP-OW-10 / OW-10
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	0.714	J	S	0.430				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	240	J	ZZ		10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	67	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	420				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	59000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.36	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		9.5	9.5	9.5	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.23	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	16				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.23				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.582			0.193	0.169	0.169	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.133	U		0.384	0.685	0.685	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-6
Sys Sample Code	102523NOW12
Sample Name	102523NOW12
Sample Date	10/25/2023 2:00:00 PM
Location	MSPS-LVWSP-OW-12 / OW-12
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	0.604	J	S	0.451				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	680	J	ZZ		10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	62	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.83	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	79				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	100000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	1.6	J	RL		1.2	1.2	5.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	71				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			1.7	1.7	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	0.20	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	140				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.031	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	220				1.7	1.7	5.0	Y	Yes	5	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.375			0.165	0.178	0.178	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.230	U		0.420	0.722	0.722	1.00	N	Yes	1	NA

Lab Sample ID	240-194365-7
Sys Sample Code	102523NOW13
Sample Name	102523NOW13
Sample Date	10/25/2023 11:25:00 AM
Location	MSPS-LVWSP-OW-13 / OW-13
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226/228	RA226/228	N	pCi/L	1.28	J	S	0.847				Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	400				10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	7.5				0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	200				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	22000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	8.4				1.2	1.2	5.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	4.0				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	1.8				0.45	0.45	1.0	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		4.4	4.4	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L	1.2	J	RL		0.89	0.89	5.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	26				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.027	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.572			0.307	0.366	0.366	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.709	U		0.789	1.29	1.29	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-8
Sys Sample Code	102523FBFIELDBLANK_1025
Sample Name	102523FBFIELDBLANK
Sample Date	10/25/2023 10:25:00 AM
Location	MSPS-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	Radium-226/228	RA226/228	N	pCi/L	0.235	U		0.293				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			10	10	10	N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L		U			2.2	2.2	5.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			250	250	1000	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.1	J	RL		1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0787	U		0.0865	0.136	0.136	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.157	U		0.280	0.484	0.484	1.00	N	Yes	1	NA

Facility: Mt. Storm Power Station
SDG: 2401943651

Lab Sample ID	240-194365-9
Sys Sample Code	102523FDDUPLICATE_1300
Sample Name	102523FDDUPLICATE
Sample Date	10/25/2023 1:00:00 PM
Location	MSPS-LVWSP-OW-04A / OW-4A
Sample Type	FD
Matrix	GW
Parent Sample	102523NOW4A

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	Radium-226/228	RA226/228	N	pCi/L	0.236	UJ	FD	0.325				N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	110	J	ZZ		10	10	10	Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L	72	J	RL		57	57	100	Y	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	1.2	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	80				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	25000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.31	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF		3.2	3.2	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.4	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	8.6				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.096				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	38				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.126	U		0.106	0.156	0.156	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.110	UJ	FD	0.307	0.545	0.545	1.00	N	Yes	1	NA

APPENDIX C

2022 SECOND SEMI-ANNUAL ASSESSMENT MONITORING PROGRAM EVENT STATISTICAL WORKSHEETS

Attachment 3
Groundwater Protection Standard Comparison
Confidence Limit Method

Date: 3/13/2023

Site Owner: Dominion Energy

Site: Mt. Storm - LVWSP

Monitoring Well: OW-12

Constituent: Cobalt

Sample Number	Sample Date	Result (ug/L)	Notes
1	11/29/2016	8.8	Detection
2	1/18/2017	7.9	Detection
3	2/16/2017	12.8	Detection
4	3/23/2017	10	Detection
5	4/19/2017	6.5	Detection
6	5/16/2017	9.1	Detection
7	6/19/2017	16.8	Detection
8	8/17/2017	11.3	Detection
9	3/20/2018	22.8	Detection
10	6/5/2018	5.3	Detection
11	10/31/2018	10.3	Detection
12	4/17/2019	27	Detection
13	10/30/2019	27	Detection
14	4/15/2020	54	Detection
15	10/14/2020	39	Detection
16	4/29/2021	30	Detection
17	11/4/2021	49	Detection
18	4/28/2022	32	Detection
19	11/10/2022	69	Detection

Sample Group Mean (X):	23.61
Sample Group Standard Deviation (S):	18.23
Confidence Level:	95%
Sample Group Count:	19
Degrees of Freedom (n-1):	18
Critical Value (tc):	1.734
Lower Confidence Limit (ug/L):	16.358
Upper Confidence Limit (ug/L):	30.863
Groundwater Protection Standard (ug/L):	34
GPS Exceedance Confirmed?:	NO

Note: GPS exceedance indicated if Lower Confidence Limit exceeds the GPS.

APPENDIX D

2023 FIRST SEMI-ANNUAL ASSESSMENT MONITORING PROGRAM EVENT STATISTICAL WORKSHEETS

Attachment 3
Groundwater Protection Standard Comparison
Confidence Limit Method

Date: May 31, 2023

Site Owner: Dominion Energy

Site: Mt. Storm - LVWSP

Monitoring Well: OW-12

Constituent: Cobalt

Sample Number	Sample Date	Result (ug/L)	Notes
1	11/29/2016	8.8	Detection
2	1/18/2017	7.9	Detection
3	2/16/2017	12.8	Detection
4	3/23/2017	10	Detection
5	4/19/2017	6.5	Detection
6	5/16/2017	9.1	Detection
7	6/19/2017	16.8	Detection
8	8/17/2017	11.3	Detection
9	3/20/2018	22.8	Detection
10	6/5/2018	5.3	Detection
11	10/31/2018	10.3	Detection
12	4/17/2019	27	Detection
13	10/30/2019	27	Detection
14	4/15/2020	54	Detection
15	10/14/2020	39	Detection
16	4/29/2021	30	Detection
17	11/4/2021	49	Detection
18	4/28/2022	32	Detection
19	11/10/2022	69	Detection
20	4/19/2023	68	Detection

Sample Group Mean (X):	25.83
Sample Group Standard Deviation (S):	20.33
Confidence Level:	95%
Sample Group Count:	20
Degrees of Freedom (n-1):	19
Critical Value (tc):	1.729
Lower Confidence Limit (ug/L):	17.970
Upper Confidence Limit (ug/L):	33.690
Groundwater Protection Standard (ug/L):	34
GPS Exceedance Confirmed?:	NO

Note: GPS exceedance indicated if Lower Confidence Limit exceeds the GPS.