



Prepared for

Georgia Power Company
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2021 SEMIANNUAL GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT

**GEORGIA POWER COMPANY
PLANT BOWEN
ASH POND 1 (AP-1)**

Prepared by

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CERTIFICATION STATEMENT

This 2021 Semiannual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Bowen – Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D], specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants.



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August 31, 2021
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SUMMARY

This summary of the 2021 *Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program through July 2021 at Georgia Power Company's (Georgia Power's) Plant Bowen Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Bowen is located at 317 Covered Bridge Rd SW, nine miles southwest of Cartersville in Bartow County, Georgia. Plant Bowen is a four-unit, coal-fired, electric-generating facility that commenced operations in the 1970s. CCR material resulting from power generation have historically been transferred and stored at the Site. In preparation for AP-1 closure, the plant completed the conversion to dry ash handling in early 2019 and AP-1 no longer receives ash. Georgia Power submitted to Georgia Environmental Protection Division (GA EPD) a notice of intent (NOI) stating that waste stream flows are no longer directed to AP-1, effective December 31, 2020. The Site is located on the western portion of the Plant Bowen property.



Plant Bowen and the Site

Groundwater at the Site is monitored using a system comprised of five upgradient and 19 downgradient wells installed between October 2015 and March 2021 that meet federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between June 2016 and August 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures were established in January 2018 and January 2019, respectively. During this 2021 semiannual reporting period, the Site remained in assessment monitoring as corrective measures were evaluated.

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

During this 2021 semiannual reporting period, Geosyntec conducted two groundwater sampling events in February and March. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for March 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters in wells provided in the table below.

Appendix III Parameter	March 2021
Boron	BGWC-7, BGWC-9, BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-18, BGWC-19, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-25, BGWC-30
Calcium	BGWC-7, BGWC-12, BGWC-16, BGWC-20, BGWC-22, BGWC-23, BGWC-24
Chloride	BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-30
pH	BGWC-16, BGWC-18, BGWC-19, BGWC-22, BGWC-24
Sulfate	BGWC-7, BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-20, BGWC-22, BGWC-23, BGWC-24
Total Dissolved Solids	BGWC-7, BGWC-12, BGWC-16, BGWC-20, BGWC-22, BGWC-23, BGWC-24
Appendix IV Parameter ⁴	March 2021
Arsenic	<i>Federal and State:</i> BGWC-34D
Cobalt	<i>Federal and State:</i> BGWC-22
Molybdenum	<i>State only:</i> BGWC-22, BGWC-43D <i>Federal and State:</i> BGWC-38D

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through June 30, 2021, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power’s CCR Rule Compliance website and provided to GA EPD semiannually.

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ A state statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available, or the calculated background interwell prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

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LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP	Ash Pond
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	Dissolved Oxygen
ft/d	Feet per Day
ft/ft	Feet per Foot
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
K_h	Horizontal Hydraulic Conductivity
MCL	Maximum Contaminant Level
mg/L	Milligrams per Liter
NELAP	National Environmental Laboratory Accreditation Program
NOI	Notice of Intent
NTU	Nephelometric Turbidity Units
Pace Analytical	Pace Analytical Services, LLC
PE	Professional Engineer
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
s.u.	Standard Unit
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2021 Semiannual Groundwater Monitoring & Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Bowen (Site) Ash Pond 1 (AP-1). GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) adopt Federal CCR rule by reference. For ease of reference, the USEPA CCR rules are cited within this report. This report documents groundwater monitoring activities completed for AP-1 during January through July 2021 (referred to herein as the reporting period).

Due to statistically significant levels (SSLs) of cobalt and molybdenum reported in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) for AP-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit in 2018, including semiannual monitoring and reporting pursuant to §§ 257.90 through 257.95 of the Federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

1.1 Site Description and Background

Plant Bowen is a four-unit, coal-fired, electric-generating facility that commenced operations in the 1970s. The plant is located nine miles southwest of Cartersville in Bartow County, Georgia. The plant is bordered by the Etowah River to the north and east, and sparsely populated, forested, rural and industrial land on the south and west (**Figure 1**).

AP-1 at the Site occupies an area of approximately 254 acres. In preparation for AP-1 closure, the plant completed the conversion to dry ash handling in early 2019, and AP-1 no longer receives ash. Georgia Power submitted to GA EPD a notice of intent (NOI) stating that waste stream flows are no longer directed to AP-1, effective December 31, 2020. Georgia Power will close AP-1 by excavation and consolidation of CCR material into an approximately 144-acre lined, multi-cell storage facility situated within the current footprint of AP-1. Closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure approach

provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach have been summarized in the Amended Written Closure Plan and published in 2018 to Georgia Power's CCR Rule Compliance website.

1.2 Regional Geology & Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at the Site as described in the *Hydrogeologic Assessment Report (Revision 3) – AP-1* (HAR Rev 3) (Geosyntec, 2021d) prepared in support of the AP-1 solid waste handling permit.

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. The floor of the valley is underlain by shales, dolomites, and limestones of Cambrian and Ordovician age. Geologic mapping performed by Lawton et al. (1976) indicates that the Site is underlain by the Ordovician-Cambrian age Knox Dolomite and the Ordovician age Newala Limestone. Based on review of subsurface investigations at the Site, the bedrock is described as predominantly dolomite. The overall Site is underlain primarily by residuum and competent dolomite/limestone bedrock. AP-1 is underlain primarily by three lithologic units: (i) fill material consisting of earthen embankments and CCR material, (ii) residuum, and (iii) competent dolomite/limestone bedrock.

Based on subsurface investigations, the residuum at the Site is the result of in-place weathering of the underlying dolomite/limestone bedrock. The residuum consists mainly of mottled light brown to red to yellow, low to high plasticity, stiff to very stiff clay, silt, and silty clay. Most soils contain varying amounts of black chert nodules and chert gravel. The bedrock beneath the Site is described as light to dark gray, fine to medium-grained, thinly bedded to massive, dense, and hard dolomite, limestone, and dolomitic limestone. Some evidence of weathering along fracture or bedding surfaces is observed, with some manganese or iron oxide staining. Abundant calcite veins and occasional zones of healed dolomite breccia are observed throughout the bedrock. Solution features such as voids in the underlying limestone/dolomite bedrock have formed in the bedrock over geological timeframes, primarily along pre-existing discontinuities such as joints and bedding planes. At the Site, these voids are typically filled with residuum from the in-place weathering of the bedrock or the downward migration of the overlying residuum,

but they may also be open, or water filled. When hydraulically interconnected these voids may create preferential groundwater flow paths across the Site.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at the Site is a regional groundwater aquifer that occurs near the interface of the residuum and the fractured and solutioned bedrock. Groundwater recharge is by precipitation infiltrating through the residuum to bedrock, or in bedrock outcrop areas, it infiltrates directly into the bedrock. Groundwater flow in bedrock is under unconfined to semi-confined conditions from the mantle of overlying lower-permeability residuum and is controlled by secondary porosity along fractures and solution-enhanced features. Based on observations of residuum soil types and horizontal hydraulic conductivity values, the movement of groundwater in the residuum and upper weathered bedrock zone is slow and likely behaves as flow through low-permeability porous media. Groundwater flow in the underlying dolomite/limestone bedrock is likely controlled by preferential flow pathways associated with fractures and solution-enhanced joints and fissures.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

The compliance monitoring well network for AP-1 currently consists of 24 monitoring wells. The network was expanded in 2020 to include BGWA-33, BGWA-47D, and BGWA-48D, and in 2021 to include BGWC-51 and BGWC-52. Boring logs for BGWC-51 and BGWC-52 were submitted to GA EPD in an addendum to the Site's Monitoring Well Certification Report in March 2021 (Geosyntec, 2021b), provided in **Appendix A**.

As part of the assessment monitoring program, 16 delineation wells have been installed since 2018 to characterize the nature and extent of cobalt and molybdenum in groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), these wells are sampled along with the compliance monitoring wells as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients. Currently, there are 16 piezometers used to gauge groundwater levels downgradient of AP-1.

The locations of the compliance monitoring wells, delineation wells, and piezometers are shown on **Figure 2**; well construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during January through July 2021 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

During the reporting period, Georgia Power installed monitoring wells BGWC-51 and BGWC-52 at the request of GA EPD to supplement the compliance monitoring network at the southern waste boundary of AP-1. Additional delineation wells BGWC-49D and BGWC-50D were installed to vertically delineate molybdenum south of AP-1. The locations of the four wells installed during this 2021 semiannual reporting period are shown on **Figure 2**; well construction details are provided in **Table 1**. Well installation reports that include detailed boring and well construction logs for the installation of the four wells installed in January, February, and March 2021 were submitted to GA EPD under separate cover in March 2021 (Geosyntec, 2021b) and May 2021 (Geosyntec, 2021c) and are provided in **Appendix A**.

The well and piezometer networks are inspected during groundwater monitoring events. For this reporting period, inspections were conducted during the annual Appendix IV groundwater sampling event in February 2021. Wells BGWC-49D and BGWC-50D were inspected in March 2021 since they were completed after the February sampling event. According to the field team, no changes were observed in the wells between the February and March 2021 sampling events. Inspections are conducted by the field team using GA EPD Groundwater Well Integrity Form. Any issues identified with the wells are addressed before the following groundwater sampling event. The well inspection forms are provided in **Appendix B**.

During the March 2021 sampling event, the field team observed rainfall runoff ponded over and around the well pads of wells BGWC-38D, BGWC-43D, and BGWC-49D. Review of the March 2021 groundwater analytical data for these wells in comparison with the wells' historical data did not indicate the groundwater in any of the three wells was impacted by the ponded surface water. However, out of an abundance of caution, the three wells were redeveloped in May 2021. The redevelopment logs are provided in **Appendix C**.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. Statistical analyses of the 2018 assessment monitoring groundwater data identified SSLs of cobalt in well BGWC-22 in excess of the federal and state groundwater protection standard (GWPS) and SSLs of molybdenum in wells BGWC-20, BGWC-22, BGWC-23, and BGWC-30 in excess of the state GWPS.

Pursuant to § 257.96, an ACM was initiated for AP-1 in January 2019. An *Assessment of Corrective Measures Report – Plant Bowen Ash Pond 1 (AP-1)* (ACM Report) was subsequently prepared for AP-1 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to the CCR compliance website in July 2019. In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented. Since initiating the ACM, Georgia Power has undertaken multiple ACM-specific field investigations and data evaluation efforts to characterize the nature and extent of cobalt and molybdenum in groundwater at AP-1 pursuant to the Federal CCR rule and GA EPD Rules. Based on the groundwater data collected to date, the SSLs of cobalt and molybdenum are horizontally and vertically delineated to below the state and federal GWPS at AP-1.

Regarding the routine assessment monitoring program, the annual Appendix IV sampling event at AP-1 during this reporting period was conducted in February 2021. Due to installation activities of BGWC-49D, sampling of wells BGWC-30, BGWC-36D, BGWC-38D, and BGWC-43D was postponed until March 8-9, 2021. The first semiannual assessment monitoring event conducted during this reporting period occurred in March 2021, except for wells BGWC-49D and BGWC-50D, sampled on April 19, 2021, after installation and development activities were completed for these two wells.

A groundwater sampling event was conducted in December 2020 for wells BGWC-14A, BGWA-47D, BGWA-48D. However, the laboratory report for this event was not received with sufficient time to complete validation efforts for inclusion in the *2020 Annual Groundwater Monitoring and Corrective Action Report - Plant Bowen Ash Pond 1 (AP-1)* (2020 Annual Report) (Geosyntec, 2021a). The December 2020 sampling event laboratory and validation reports are provided in **Appendix C**.

Groundwater samples were collected at compliance monitoring network wells BGWC-51 and BGWC-52 in January 2021. Additional background samples were collected at BGWC-14A, BGWA-47D, BGWA-48D in January 2021. The samples were analyzed for the complete list of Appendix III and Appendix IV constituents. The number of

groundwater samples collected for analysis and the dates the samples were collected at AP-1 during this reporting period are summarized in **Table 2**. The analytical results are discussed in Section 3.0, while the statistical results are discussed in Section 4.0.

2.3 Alternate Source Demonstration

An Alternate Source Demonstration (ASD) was prepared and submitted to GA EPD on January 29, 2021, to address the SSL of arsenic in delineation well BGWC-34D. The ASD presented multiple lines of evidence that the arsenic groundwater concentrations detected in well BGWC-34D are not associated with a release from AP-1 but are instead caused by a natural source of arsenic in the site-specific rock formation. In addition to being submitted to GA EPD under separate cover, the ASD was also included as an appendix to the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021a). The arsenic ASD was approved by GA EPD on August 18, 2021.

2.4 Additional Groundwater and Surface Water Sampling

Supplemental groundwater sampling events were conducted during the reporting period to collect additional data in support of the continued evaluation of corrective measures as presented in the ACM Report. The supplementary data will be used to (i) evaluate attenuation mechanisms and rates and aquifer capacity for attenuation; (ii) conduct geochemical evaluation of the groundwater relative to source water; and (iii) establish a set of groundwater quality data for newly installed delineation wells. The scope of these additional efforts and associated results are presented in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix D**.

In support of risk evaluation efforts, Georgia Power collected surface water samples from six locations on January 5, 2021. The surface sampling efforts and field sampling forms were reported in the 2020 Annual Report (Geosyntec, 2021a). The laboratory and validation reports associated with the January 2021 surface water samples are provided in **Appendix C**.

3.0 SAMPLING METHODOLOGY & ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 during this reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the February and March 2021 site-wide assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February and March 2021 elevations reported using the new survey data are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare potentiometric surface maps for the February and March 2021 events, which are presented on **Figures 3 and 4**. Groundwater flow pathways at the Site are expected to be influenced by solution features, fractures, and weathered zones in the upper bedrock. Interpretation of the potentiometric surface contours indicates that groundwater generally flows to the north, northwest, and west. A component of flow in the southernmost portion of AP-1 is to the south and west, likely due to groundwater mounding related to historical free water storage at the recycle pond at the southern end of AP-1 (now decommissioned).

3.2 Groundwater Gradient and Flow Velocity

The groundwater hydraulic gradients within the residuum and fractured and solutioned bedrock of the uppermost aquifer beneath AP-1 were calculated using groundwater elevation data recorded in February and March 2021, and along three main interpreted groundwater flow paths to account for changing flow directions underlying AP-1, as discussed in Section 3.1 (i.e., northwest, west, south/southwest). Hydraulic gradients were calculated between the following well pairs: APPZ-5R/BGWC-14A, APPZ-3R/BGWC-25, and APPZ-2R/BGWC-40. The supporting calculations are presented in **Table 4**; the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3 and 4**.

The calculated hydraulic gradient along the northwest, west, and south/southwest flow paths are 0.008 feet per foot (ft/ft), 0.012 ft/ft, and 0.010 ft/ft, respectively. These

hydraulic gradients represent the calculated average of the February and March 2021 events.

Because of lithologic heterogeneity and anisotropic groundwater flow, groundwater velocity calculations using derivations of Darcy's Law, or other methods, may not capture the full range and distribution of flow velocities beneath and around AP-1 (Geosyntec, 2021d). Groundwater flow velocity calculations are provided as a general estimate of groundwater flow velocity at the site based on available information and assumptions described below.

The approximate horizontal flow velocities along the northwest, west, and south/southwest flow paths were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

$$V = \frac{K_h * i}{n_e}$$

Where:

$$V = \text{Groundwater flow velocity} \left(\frac{\text{feet}}{\text{day}} \right)$$

$$K_h = \text{Horizontal Hydraulic Conductivity} \left(\frac{\text{feet}}{\text{day}} \right)$$

$$i = \text{Horizontal hydraulic gradient} \left(\frac{\text{feet}}{\text{feet}} \right)$$

$$n_e = \text{Effective porosity}$$

Groundwater flow pathways at the site are expected to be influenced by solution features, fractures, and weathered zones in the upper bedrock. Because the geologic conditions at AP-1 are not homogenous or isotropic, groundwater flow velocities are variable. Based on the range of hydraulic conductivity measurements from wells and piezometers screened in the upper bedrock at AP-1, flow velocities were calculated using (i) the geometric mean and the highest of the observed horizontal hydraulic conductivity (K_h) values as presented in the HAR Rev 3 (Geosyntec, 2021d); (ii) the average hydraulic gradients presented at the beginning of Section 3.2; and (iii) an estimated effective

porosity of 0.3 for the fractured and solutioned dolomite/limestone bedrock (Geosyntec, 2021d).

Horizontal hydraulic conductivity values measured for bedrock ranged from 3.0×10^{-2} to 33.0 feet per day (ft/d), with a geometric mean of 2.4 ft/d. Using the geometric mean K_h value of 2.4 ft/day for the bedrock, the calculated flow velocities along the northwest, west, and south/southwest flow paths are 0.06 ft/day, 0.10 ft/day, and 0.08 ft/day, respectively. Using the highest observed K_h in the bedrock of 33 ft/day, the calculated flow velocities along the northwest, west, and south/southwest flow paths are 0.88 ft/day, 1.3 ft/day, and 1.1 ft/day, respectively. This variability in calculated groundwater flow velocity is consistent with the presence of the aforementioned preferential bedrock flow pathways. Given the variability in hydrogeologic conditions across the Site, the above calculations may not capture the full range and distribution of flow velocities beneath and around AP-1.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected from the compliance monitoring and delineation well networks using low-flow sampling procedures in accordance with § 257.93(a). Compliance wells were purged and sampled using an installed bladder pump with dedicated tubing; the delineation wells were sampled using a portable bladder pump equipped with new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

A SmarTROLL or Aqua TROLL (in-Situ field instrument) was used to monitor and record field water quality parameters listed below during purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2020we (or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.).
- Conductivity \pm 5%.
- \pm 10% or \pm 0.2 milligrams per liter (mg/L) (whichever is greater) for dissolved oxygen (DO) $>$ 0.5 mg/L. No criterion applies if DO $<$ 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU).

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Norcross, Georgia following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the February and March 2021 assessment monitoring events and non-routine sampling events are provided in **Appendix C**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Pace Analytical, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the Appendix III and Appendix IV parameters analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix C**.

The groundwater analytical results from the February and March 2021 assessment monitoring events, and the supplementary sampling of compliance wells in January 2021, are summarized in **Table 5**. The Pace Analytical laboratory reports associated with the results presented in Table 5 are provided in **Appendix C**.

3.5 Quality Assurance & Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021e), and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in laboratory-provided bottles and submitted under the same chain of custody as the primary samples for analysis of the same parameters by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and applicable federal and site-specific guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives and the results are considered valid. The associated data validation reports are provided in **Appendix C** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the March 2021 assessment monitoring event. The report generated from the analyses is provided in **Appendix E**. The 2021 semiannual groundwater data were analyzed by Groundwater Stats Consulting (GSC) (GSC, 2021).

4.1 Statistical Methods

Analytical data from the March 2021 assessment monitoring event were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established state and federal GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis package provided in **Appendix E** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. The most recent sample from each downgradient well is compared to the background limit to assess whether there are significant statistical increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the constituent's associated PL. The 1-of-2 resample

plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective prediction limit, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient compliance and delineation monitoring well with a minimum of 4 samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data is the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents.

Due to non-routine (or ACM investigation) sampling, some Appendix IV constituents at a well location may have differing number of analytical data points. At the time of this report, only the following delineation wells had four independent data with a complete Appendix IV constituent list: BGWA-6, BGWC-31, BGWC-32, and BGWC-34D through BGWC-40. The data set for delineation wells installed in 2020 and 2021 (BGWC-41D through BGWC-50D) and new compliance wells (BGWC-51 and BGWC-52) are limited to less than four independent analyses for the majority of the Appendix IV constituents; and therefore, those constituents are not subject to the statistical analyses. Due to non-routine sampling events in which select Appendix IV constituents were analyzed, confidence intervals may be constructed for delineation wells BGWC-41D through BGWC-44D for fluoride and molybdenum.

The confidence intervals are compared to both the state and federal GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in §§ 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under §§ 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;

- (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.10 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

USEPA's updated GWPS have not yet been incorporated under GA EPD's CCR Rule. GA EPD CCR Rule GWPS are:

- (1) The federally established MCL.
- (2) Where an MCL has not been established, the background concentration.
- (3) Background levels for constituents where the background level is higher than the MCL.

Following the above federal and state rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the full Appendix III statistical analysis discussion presented in **Appendix E**, groundwater conditions have not returned to background and assessment monitoring should continue. Based on the statistical analysis of Appendix IV constituents, the following constituents exceeded the state or federal GWPS for the March 2021 assessment monitoring event:

AP-1 (Federal CCR Rule):

- Arsenic: BGWC-34D
- Cobalt: BGWC-22
- Molybdenum: BGWC-38D

AP-1 (GA EPD CCR Rule):

- Arsenic: BGWC-34D

- Cobalt: BGWC-22
- Molybdenum: BGWC-22, BGWC-38D, and BGWC-43D

The identified SSLs of cobalt and molybdenum in BGWC-22 and arsenic in BGWC-34D in excess of the state and federal GWPS, and the molybdenum SSL in excess of the state GWPS in BGWC-38D are consistent with the 2020 reporting year statistical results. The SSL of molybdenum in BGWC-38D above the federal GWPS and in BGWC-43D above the state GWPS was first identified during the current reporting period. The arsenic SSL in BGWC-34D is addressed with the ASD submitted with the 2020 Annual Report (Geosyntec, 2021a), and approved by GA EPD on August 18, 2021. A groundwater exceedance notification acknowledging the March 2021 SSLs for arsenic, cobalt, and molybdenum was placed in the Operating Record on July 30, 2021, pursuant to § 257.95(g).

4.3 Delineation Data

Based on the groundwater data presented herein, the SSL of cobalt associated with BGWC-22 is horizontally and vertically delineated to below the state and federal GWPS as determined by confidence intervals (statistical analysis) prepared for delineation wells BGWC-32 and BGWC-35D, respectively, and contained within the property boundary of Plant Bowen. Similarly, statistical analysis of the data indicate that the SSL of molybdenum associated with BGWC-22 is horizontally and vertically delineated to below the state and federal GWPS by delineation wells BGWC-32 and BGWC-37D, respectively.

Horizontal and vertical delineation of molybdenum in BGWC-38D and BGWC-43D is pending additional groundwater data reported for the corresponding delineation wells BGWC-44D, BGWC-49D, and BGWC-50D. Wells BGWC-44D and BGWC-50D were installed to horizontally delineate BGWC-38D and BGWC-43D, respectively. Well BGWC-49D was installed to vertically delineate both BGWC-38D and BGWC-43D. The three delineation wells have been sampled less than four times, but the data reported to date have measured less than the state GWPS for all events. Wells BGWC-44D, BGWC-49D, and BGWC-50D will be sampled moving forward to evaluate vertical delineation at BGWC-38D and BGWC-43D.

Georgia Power will continue to monitor the delineation wells and adaptively manage the site as new data become available. At this time, concentrations of Appendix IV constituents above the state and federal GWPS are delineated to within the property

boundary based on derived confidence intervals or, in the case of delineation wells BGWC-44D, BGWC-49D, and BGWC-50D, a limited data set reporting all concentrations below the state GWPS for the identified Appendix IV SSLs.

5.0 MONITORING PROGRAM STATUS

5.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of cobalt and molybdenum in select AP-1 wells. Pursuant to § 257.195(g)(1)(iv), the additional delineation wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

5.2 Assessment of Corrective Measures

The ACM efforts completed during the reporting period covered by this groundwater monitoring and corrective action report are presented in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix D**. The Semiannual Progress Report summarizes:

- (i) the current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- (ii) the analytical data obtained during supplemental ACM-specific field investigations;
- (iii) the status of evaluating applicable corrective measures; and
- (iv) the planned activities and anticipated schedule for the following semi-annual reporting period.

Georgia Power will include future Semiannual Progress Reports with each groundwater monitoring and corrective action report.

6.0 CONCLUSIONS & FUTURE ACTIONS

This *2021 Semiannual Groundwater Monitoring & Corrective Action Report* for Plant Bowen AP-1 was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for AP-1 reported up to and including the March 2021 assessment monitoring event identified SSLs of arsenic, cobalt, and molybdenum.

The arsenic SSL in BGWC-34D is addressed with the ASD submitted with the 2020 Annual Report (Geosyntec, 2021a), and approved by GA EPD on August 18, 2021. The current groundwater data indicate the identified SSLs are horizontally and vertically delineated to below the state and federal GWPS, and are contained within the property boundary of Plant Bowen.

The second semiannual assessment monitoring event tentatively planned for August 2021. Additional groundwater monitoring and delineation activities in support of the ACM efforts may occur in the interim as described in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix D**.

7.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Bowen AP-1, Bartow County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length
Compliance Monitoring Well										
BGWA-2	Upgradient	10/29/2015	1499374.18	2068599.59	727.00	729.69	650.49	640.49	89.40	10
BGWA-29	Upgradient	8/7/2016	1498283.04	2066362.32	718.84	721.38	632.88	622.88	98.80	10
BGWA-33	Upgradient	7/10/2018	1497972.13	2064876.80	740.50	743.25	661.18	651.18	81.74	10
BGWA-47D	Upgradient	5/13/2020	1499377.79	2068612.48	726.93	729.61	585.90	575.90	154.04	10
BGWA-48D	Upgradient	5/16/2020	1499380.09	2068623.31	726.64	729.38	544.97	534.97	194.74	10
BGWC-7	Downgradient	10/1/2015	1504711.59	2066801.40	702.49	705.38	625.18	615.18	90.50	10
BGWC-8	Downgradient	11/18/2015	1504671.82	2066929.46	703.71	706.43	636.83	628.83	79.90	10
BGWC-9	Downgradient	11/13/2015	1504909.12	2066143.27	689.18	691.93	638.33	628.33	63.90	10
BGWC-10	Downgradient	10/7/2015	1505033.22	2066081.09	683.39	686.06	633.66	623.66	62.70	10
BGWC-12	Downgradient	10/21/2015	1505279.88	2065908.56	691.71	694.41	626.01	616.01	78.70	10
BGWC-14A	Downgradient	5/4/2020	1505398.54	2065015.98	715.57	718.33	629.57	619.57	98.76	10
BGWC-16	Downgradient	11/12/2015	1504656.42	2064247.67	671.65	674.31	635.31	625.31	49.30	10
BGWC-17	Downgradient	11/17/2015	1504432.00	2064259.38	671.25	673.65	615.35	605.35	68.60	10
BGWC-18	Downgradient	10/13/2015	1504118.73	2064257.00	670.32	672.88	645.08	635.08	38.10	10
BGWC-19	Downgradient	10/12/2015	1503742.25	2064244.66	671.04	673.61	628.91	618.91	55.00	10
BGWC-20	Downgradient	10/9/2015	1503367.73	2064259.55	672.29	675.14	635.14	625.14	50.30	10
BGWC-21	Downgradient	3/2/2016	1501627.51	2064348.09	688.53	691.33	648.83	638.63	53.10	10
BGWC-22	Downgradient	10/8/2015	1501323.76	2064358.05	692.64	695.50	662.60	652.60	43.20	10
BGWC-23	Downgradient	10/15/2015	1501000.57	2064350.17	693.16	695.50	654.30	644.30	51.50	10
BGWC-24	Downgradient	10/27/2015	1500621.22	2065032.84	699.46	702.27	646.27	636.27	66.30	10
BGWC-25	Downgradient	3/3/2016	1502292.73	2064244.10	677.60	680.47	632.87	622.87	57.90	10
BGWC-30	Downgradient	1/4/2017	1499815.93	2066395.86	698.39	701.06	651.58	641.58	59.78	10
BGWC-51	Downgradient	1/22/2021	1500270.09	2065455.80	708.99	711.49	654.57	644.57	67.25	10
BGWC-52	Downgradient	1/21/2021	1500156.97	2065764.13	707.77	710.75	638.88	628.88	82.20	10
Piezometer										
BGWA-1	Downgradient	11/17/2015	1499101.23	2067205.48	718.33	720.90	672.00	662.00	59.20	10
BGWA-3	Downgradient	11/5/2015	1499420.87	2065185.74	721.80	724.28	645.08	635.08	89.50	10
BGWA-4	Downgradient	3/4/2016	1499485.38	2064697.89	726.05	728.67	660.37	650.37	78.60	10
BGWA-5	Downgradient	11/3/2015	1499434.58	2065421.43	718.53	720.92	661.52	651.52	69.70	10
BGWC-11	Downgradient	10/16/2015	1504998.94	2066093.83	683.91	686.50	619.20	609.20	77.60	10
BGWC-13	Downgradient	10/21/2015	1505435.29	2065251.21	714.77	717.43	653.83	643.83	73.90	10
BGWC-15	Downgradient	10/20/2015	1505278.19	2064732.18	715.39	717.92	654.52	644.52	73.70	10
BGWA-26	Downgradient	8/5/2016	1498697.63	2064189.94	726.09	728.65	663.55	653.55	75.40	10
BGWA-27	Downgradient	8/6/2016	1498719.14	2064387.54	732.50	735.25	652.05	642.05	93.50	10
BGWA-28	Downgradient	8/7/2016	1498749.21	2064577.55	734.88	737.45	661.35	651.35	86.40	10
PZ-1	Downgradient	6/23/2016	1505600.54	2066844.10	675.35	677.87	630.65	620.65	57.52	10
PZ-2	Downgradient	6/24/2016	1503856.86	2062938.81	665.92	668.25	649.22	639.22	30.20	10
PZ-3	Downgradient	6/22/2016	1505723.97	2066071.08	705.34	707.97	658.64	648.64	59.60	10
PZ-4	Downgradient	6/23/2016	1505788.58	2064316.61	715.96	718.74	669.26	659.26	59.78	10
PZ-5	Downgradient	12/4/2019	1499885.63	2063961.22	697.23	700.12	640.56	630.56	59.89	10
PZ-6	Downgradient	12/8/2019	1500379.48	2063242.81	675.50	678.32	640.83	630.83	37.82	10

Table 1
Monitoring Well Network Summary
Plant Bowen AP-1, Bartow County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length
<i>Delineation Monitoring Well</i>										
BGWA-6	Downgradient	11/6/2015	1499262.01	2065797.30	714.49	716.93	663.93	653.93	63.30	10
BGWC-31	Downgradient	7/17/2018	1503497.94	2064022.71	668.12	670.54	629.45	619.45	51.42	10
BGWC-32	Downgradient	7/18/2018	1501252.25	2064184.30	696.36	699.36	658.49	648.49	51.19	10
BGWC-34D	Downgradient	7/13/2018	1503356.51	2064257.95	672.25	675.17	606.07	596.07	79.43	10
BGWC-35D	Downgradient	7/12/2018	1501312.20	2064358.63	693.13	695.73	625.47	615.47	80.59	10
BGWC-36D	Downgradient	7/2/2018	1499807.51	2066415.10	698.07	701.01	614.89	604.89	96.45	10
BGWC-37D	Downgradient	4/25/2019	1501293.16	2064362.70	693.50	696.05	595.83	585.83	110.55	10
BGWC-38D	Downgradient	4/18/2019	1499802.36	2066430.17	697.52	700.34	584.86	574.86	125.81	10
BGWC-39	Downgradient	12/6/2019	1501241.94	2064095.41	676.58	679.12	661.91	651.91	27.54	10
BGWC-40	Downgradient	12/3/2019	1500589.93	2064317.38	687.12	689.59	637.45	627.45	62.47	10
BGWC-41D	Downgradient	4/27/2020	1501255.96	2064096.23	676.43	679.12	631.76	621.76	57.69	10
BGWC-42D	Downgradient	5/3/2020	1501280.52	2064365.25	693.98	696.90	553.31	543.31	153.92	10
BGWC-43D	Downgradient	4/24/2020	1499796.86	2066444.37	697.29	700.10	544.62	534.62	165.81	10
BGWC-44D	Downgradient	4/22/2020	1499796.86	2066444.37	697.29	700.10	544.62	534.62	165.81	10
BGWC-49D	Downgradient	2/23/2021	1499790.13	2066461.96	696.95	699.75	398.95	388.95	311.13	10
BGWC-50D	Downgradient	3/19/2021	1499269.15	2065781.87	714.68	717.43	544.68	534.68	183.09	10

Notes:

ft = feet

ft BTOC = feet below top of casing

- (1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey completed by GEL Solutions obtained June 10, 2020. Survey for wells BGWC-51 and BGWC-52 was obtained January 28, 2021. Survey for wells BGWC-49D and BGWC-50D was obtained March 25, 2021.
- (2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions obtained June 10, 2020. Survey for wells BGWC-51 and BGWC-52 was obtained January 28, 2021. Survey for wells BGWC-49D and BGWC-50D was obtained March 25, 2021.
- (3) Total well depth accounts for sump if data provided on well construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Bowen AP-1, Bartow County, Georgia

Well ID	Hydraulic Location	Jan 20, 2021	Jan 28, 2021	Feb 15 - 23, 2021 Mar 8 - 9, 2021	Mar 22 - Apr 1, 2021 Apr 19, 2021	Status of Monitoring Well
Purpose of Sampling Event:		Background	Supplemental	App. IV Annual	Semiannual	
<i>Compliance Monitoring Well</i>						
BGWA-2	Upgradient	--	--	X	X	Assessment
BGWA-29	Upgradient	--	--	X	X	Assessment
BGWA-33	Upgradient	--	--	X	X	Assessment
BGWA-47D	Upgradient	X	--	X	X	Assessment ⁽¹⁾
BGWA-48D	Upgradient	X	--	X	X	Assessment ⁽¹⁾
BGWC-7	Downgradient	--	--	X	X	Assessment
BGWC-8	Downgradient	--	--	X	X	Assessment
BGWC-9	Downgradient	--	--	X	X	Assessment
BGWC-10	Downgradient	--	--	X	X	Assessment
BGWC-12	Downgradient	--	--	X	X	Assessment
BGWC-14A	Downgradient	X	--	X	X	Assessment ⁽¹⁾
BGWC-16	Downgradient	--	--	X	X	Assessment
BGWC-17	Downgradient	--	--	X	X	Assessment
BGWC-18	Downgradient	--	--	X	X	Assessment
BGWC-19	Downgradient	--	--	X	X	Assessment
BGWC-20	Downgradient	--	--	X	X	Assessment
BGWC-21	Downgradient	--	--	X	X	Assessment
BGWC-22	Downgradient	--	--	X	X	Assessment
BGWC-23	Downgradient	--	--	X	X	Assessment
BGWC-24	Downgradient	--	--	X	X	Assessment
BGWC-25	Downgradient	--	--	X	X	Assessment
BGWC-30	Downgradient	--	--	X	X	Assessment
BGWC-51	Downgradient	--	X	X	X	Assessment
BGWC-52	Downgradient	--	X	X	X	Assessment
<i>Delineation Monitoring Well</i>						
BGWA-6	Downgradient	--	--	X	X	Assessment
BGWC-31	Downgradient	--	--	X	X	Assessment
BGWC-32	Downgradient	--	--	X	X	Assessment
BGWC-34D	Downgradient	--	--	X	X	Assessment
BGWC-35D	Downgradient	--	--	X	X	Assessment
BGWC-36D	Downgradient	--	--	X	X	Assessment
BGWC-37D	Downgradient	--	--	X	X	Assessment
BGWC-38D	Downgradient	--	--	X	X	Assessment
BGWC-39	Downgradient	--	--	X	X	Assessment
BGWC-40	Downgradient	--	--	X	X	Assessment
BGWC-41D	Downgradient	--	--	X	X	Assessment
BGWC-42D	Downgradient	--	--	X	X	Assessment
BGWC-43D	Downgradient	--	--	X	X	Assessment
BGWC-44D	Downgradient	--	--	X	X	Assessment
BGWC-49D	Downgradient	--	--	--	X	Assessment
BGWC-50D	Downgradient	--	--	--	X	Assessment

Note:

(1) Monitoring well analyzed for the complete list of Appendix III and Appendix IV constituents to establish background groundwater quality in compliance with 40 CFR 257.93.

Table 3
 Summary of Groundwater and Surface Water Elevations
 Plant Bowen AP-1, Bartow County, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	Feb 15, 2021		Mar 22, 2021	
		Depth to Water (ft BTOC)	Groundwater Elevations ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevations ⁽¹⁾ (ft)
Compliance Monitoring Well					
BGWA-2	729.69	55.44	674.25	52.43	677.26
BGWA-29	721.38	48.08	673.30	45.24	676.14
BGWA-33	743.25	73.77	669.48	70.62	672.63
BGWA-47D	729.61	55.38	674.23	52.37	677.24
BGWA-48D	729.38	54.92	674.46	52.27	677.11
BGWC-7	705.38	42.84	662.54	42.17	663.21
BGWC-8	706.43	42.46	663.97	43.53	662.90
BGWC-9	691.93	25.53	666.40	26.92	665.01
BGWC-10	686.06	23.12	662.94	24.81	661.25
BGWC-12	694.41	34.58	659.83	35.89	658.52
BGWC-14A	718.33	70.09	648.24	69.31	649.02
BGWC-16	674.31	13.36	660.95	15.37	658.94
BGWC-17	673.65	11.94	661.71	14.30	659.35
BGWC-18	672.88	9.64	663.24	12.48	660.40
BGWC-19	673.61	11.69	661.92	14.30	659.31
BGWC-20	675.14	12.54	662.60	14.26	660.88
BGWC-21	691.33	17.82	673.51	20.34	670.99
BGWC-22	695.50	24.84	670.66	26.07	669.43
BGWC-23	695.50	30.76	664.74	31.16	664.34
BGWC-24	702.27	14.50	687.77	16.94	685.33
BGWC-25	680.47	16.51	663.96	17.33	663.14
BGWC-30	701.06	27.62	673.44	25.10	675.96
BGWC-51	711.49	39.05	672.44	36.32	675.17
BGWC-52	710.75	38.27	672.48	35.47	675.28
Piezometer					
BGWA-1	720.90	47.12	673.78	44.75	676.15
BGWA-3	724.28	52.70	671.58	49.94	674.34
BGWA-4	728.67	57.08	671.59	54.40	674.27
BGWA-5	720.92	49.08	671.84	46.41	674.51
BGWC-11	686.50	19.96	666.54	21.35	665.15
BGWC-13	717.43	67.21	650.22	67.38	650.05
BGWC-15	717.92	66.81	651.11	65.80	652.12
BGWA-26	728.65	59.70	668.95	57.70	670.95
BGWA-27	735.25	66.34	668.91	64.24	671.01
BGWA-28	737.45	68.47	668.98	66.17	671.28
PZ-1	677.87	30.73	647.14	29.88	647.99
PZ-2	668.25	12.76	655.49	13.10	655.15
PZ-3	707.97	60.19	647.78	59.81	648.16
PZ-4	718.74	57.45	661.29	57.81	660.93
PZ-5	700.12	30.62	669.50	29.89	670.23
PZ-6	678.32	12.62	665.70	12.22	666.10
APPZ-1R ⁽²⁾	723.72	-	-	-	-
APPZ-2R	716.76	23.19	693.57	23.01	693.75
APPZ-3R	723.25	37.08	686.17	36.84	686.41
APPZ-4R ⁽²⁾	756.27	-	-	-	-
APPZ-5R	781.01	118.12	662.89	118.94	662.07
MW-108	715.27	40.94	674.33	38.52	676.75
MW-4A	715.08	42.61	672.47	46.69	668.39

Table 3
 Summary of Groundwater and Surface Water Elevations
 Plant Bowen AP-1, Bartow County, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	Feb 15, 2021		Mar 22, 2021	
		Depth to Water (ft BTOC)	Groundwater Elevations ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevations ⁽¹⁾ (ft)
<i>Delineation Well</i>					
BGWA-6	716.93	43.25	673.68	40.73	676.20
BGWC-31	670.54	13.42	657.12	14.21	656.33
BGWC-32	699.36	34.40	664.96	34.78	664.58
BGWC-34D	675.17	12.68	662.49	14.43	660.74
BGWC-35D	695.73	28.23	667.50	28.16	667.57
BGWC-36D	701.01	27.64	673.37	25.05	675.96
BGWC-37D	696.05	28.52	667.53	28.45	667.60
BGWC-38D	700.34	26.96	673.38	24.39	675.95
BGWC-39	679.12	18.98	660.14	19.42	659.70
BGWC-40	689.59	23.60	665.99	23.36	666.23
BGWC-41D	679.12	18.78	660.34	18.90	660.22
BGWC-42D	696.90	29.35	667.55	29.29	667.61
BGWC-43D	700.10	26.75	673.35	24.15	675.95
BGWC-44D	717.30	43.89	673.41	41.50	675.80
BGWC-49D	699.75	--	--	24.10	675.65
BGWC-50D	717.43	--	--	43.12	674.31
<i>Surface Water</i> ⁽³⁾					
Etowah River	-	-	646.69	-	646.46
General Service Water Pond	-	-	706.31	-	705.94

Notes:

- = Not applicable

-- = Well not installed at the time of the event.

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions obtained June 10, 2020. Survey for wells BGWC-51 and BGWC-52 was obtained January 28, 2021. Survey for wells BGWC-49D and BGWC-50D was obtained March 25, 2021.

(2) Well abandoned on February 2, 2021.

(3) Surface water elevations of Etowah River and General Service Water Pond are recorded using In-Situ® Instruments, Inc.'s Win-Situ® reporting software, and Level Troll 500® pressure transducers.

Table 4
Groundwater Gradient and Flow Velocity Calculations
Plant Bowen AP-1, Bartow County, Georgia

Flow Path Direction ⁽¹⁾	Feb 15, 2021				Mar 22, 2021				Average $\Delta h/\Delta l$ (ft/ft)
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	
Northwest Flow Path (APPZ-5R to BGWC-14A)	662.89	648.24	1,080	0.014	662.07	649.02	1,100	0.012	0.008
West Flow Path (APPZ-3R to BGWC-25)	686.17	663.96	1,230	0.018	686.41	663.14	1,250	0.019	0.012
South/Southwest Flow Path (APPZ-2R to BGWC-40)	693.57	665.99	1,870	0.015	693.75	666.23	1,870	0.015	0.010

Flow Path Direction ⁽¹⁾	Geometric Mean K_h (ft/d)	Maximum K_h (ft/d)	n	Average $\Delta h/\Delta l$ (ft/ft)	V with Geometric Mean K_h (ft/d) ⁽²⁾	Maximum V (ft/d) ⁽²⁾
Northwest Flow Path (APPZ-5R to BGWC-14A)	2.4	33	0.3	0.008	0.06	0.88
West Flow Path (APPZ-3R to BGWC-25)	2.4	33	0.3	0.012	0.10	1.32
South/Southwest Flow Path (APPZ-2R to BGWC-40)	2.4	33	0.3	0.010	0.08	1.10

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

h_1, h_2 = point of interpreted groundwater elevation

$\Delta h/\Delta l$ = hydraulic gradient

K_h = horizontal hydraulic conductivity

Δl = distance between location 1 and 2

n = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-1 and illustrated on Figures 3 and 4 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * (\Delta h/\Delta l)] / n$

Table 5
Summary of Groundwater Analytical Data
Plant Bowen AP-1, Bartow County, Georgia

Well ID:	BGWA-2	BGWA-2	BGWA-29	BGWA-29	BGWA-33	BGWA-33	BGWA-47D	BGWA-47D	BGWA-47D	BGWA-48D	BGWA-48D	BGWA-48D	BGWC-7	BGWC-7	BGWC-8	BGWC-8	BGWC-9	BGWC-9	
Sample Date:	2/16/2021	3/26/2021	2/16/2021	3/23/2021	2/19/2021	4/1/2021	1/20/2021	2/17/2021	3/25/2021	1/20/2021	2/17/2021	3/25/2021	2/18/2021	3/30/2021	2/16/2021	3/24/2021	2/17/2021	3/24/2021	
Parameter ^(1,2)																			
APPENDIX III	Boron	--	0.0094 J	--	<0.0052	--	0.0069 J	0.022 J	--	0.017 J	0.034 J	--	0.026 J	--	1.4	--	0.040 J	--	0.45
	Calcium	--	46.7	--	22.1	--	49.5	111	--	109	67.5	--	68.3	--	145	--	42.1	--	59.9
	Chloride	--	3.6	--	1.2	--	2.9	5.7	--	5.7	7.2	--	7.5	--	8.8	--	1.5	--	8.0
	Fluoride	<0.050	<0.050	<0.050	<0.050	0.062 J	0.060 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.13	0.18	<0.050	<0.050	0.086 J	0.075 J
	pH	7.75	7.63	8.00	8.00	7.73	7.75	6.83	6.89	6.94	7.31	7.21	7.22	6.88	7.05	7.69	7.66	7.43	7.26
	Sulfate	--	12.8	--	4.6	--	24.6	73.4	--	74.5	26.1	--	22.0	--	290	--	24.2	--	70.5
	TDS	--	204	--	108	--	183	377	--	415	285	--	331	--	570	--	198	--	294
APPENDIX IV	Antimony	<0.00028	<0.00028	0.0015 J	<0.00028	0.0011 J	0.0020 J	0.00068 J	0.0013 J	<0.00028	0.0015 J	0.0013 J	0.00080 J	<0.00028	<0.00028	0.00046 J	0.00059 J	0.00075 J	0.00038 J
	Arsenic	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0013 J	<0.00078	<0.00078	0.0014 J	<0.00078	<0.00078	0.0042 J	0.0026 J	0.0017 J	<0.00078	0.0012 J	0.0019 J	0.0025 J
	Barium	0.15	0.14	0.013	0.013	0.030	0.035	0.058	0.060	0.057	0.071	0.064	0.091	0.031	0.035	0.028	0.027	0.030	0.026
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046
	Cadmium	<0.00012	0.00018 J	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	<0.00055	0.00071 J	0.00071 J	0.00059 J	0.00077 J	0.00076 J	0.00061 J	0.00099 J	<0.00055	<0.00055	0.00069 J	<0.00055	<0.00055	0.00095 J	0.0010 J	0.0013 J	<0.00055	<0.00055
	Cobalt	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	0.00074 J	0.00085 J	<0.00038	<0.00038	<0.00038	<0.00038
	Fluoride	<0.050	<0.050	<0.050	<0.050	0.062 J	0.060 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.13	0.18	<0.050	<0.050	0.086 J	0.075 J
	Lead	0.00011 J	0.000068 J	0.000042 J	<0.000036	<0.000036	<0.000036	0.000072 J	0.00015 J	<0.000036	0.00025 J	0.00026 J	0.00011 J	<0.000036	<0.000036	0.00010 J	0.00015 J	0.000075 J	<0.000036
	Lithium	<0.00081	<0.00081	<0.00081	0.00087 J	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	0.00091 J	0.00099 J	<0.00081	0.0072 J	0.0084 J	<0.00081	<0.00081	0.0013 J	0.0014 J
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Molybdenum	0.0011 J	0.00092 J	<0.00069	<0.00069	0.029	0.026	<0.00069	<0.00069	<0.00069	0.0018 J	0.0017 J	0.0015 J	0.0098 J	0.011	0.0011 J	<0.00069	0.0033 J	0.0027 J
	Comb. Radium 226/228	0.938 U	1.03 U	0.344 U	0.322 U	1.11	0.580 U	0.669 U	0.537 U	1.15 U	1.33 U	1.10 U	1.08 U	1.09	1.41 U	0.709 U	0.808 U	0.692 U	0.554 U
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	0.0040 J	<0.0016	<0.0016	0.0020 J	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Thallium	0.00020 J	0.00025 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	0.00015 J	<0.00014	<0.00014	<0.00014	<0.00014	

Notes:

-- = Parameter was not analyzed

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

< = Indicates the parameter was not detected above the analytical MDL

TDS = total dissolved solids

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6010D/6020B, mercury was analyzed by EPA Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540-2011, alkalinity was analyzed by Standard Method 2320B-2011,

Sulfide was analyzed by Standard Method 4500-S2D-2011, and combined radium 226/228 by EPA Methods 9315/9320. The pH value presented was recorded at the time of sample collection in the field.

Table 5
Summary of Groundwater Analytical Data
Plant Bowen AP-1, Bartow County, Georgia

Well ID:	BGWC-10	BGWC-10	BGWC-12	BGWC-12	BGWC-14A	BGWC-14A	BGWC-14A	BGWC-16	BGWC-16	BGWC-17	BGWC-17	BGWC-18	BGWC-18	BGWC-19	BGWC-19	BGWC-20	BGWC-20	
Sample Date:	2/18/2021	3/30/2021	2/19/2021	3/24/2021	1/20/2021	2/18/2021	3/24/2021	2/18/2021	3/24/2021	2/18/2021	3/24/2021	2/18/2021	3/24/2021	2/18/2021	3/26/2021	2/18/2021	3/29/2021	
Parameter ^(1,2)																		
APPENDIX III	Boron	--	0.56	--	1.2	1.1	--	0.60	--	1.3	--	1.1	--	0.50	--	0.24	--	4.1
	Calcium	--	61.3	--	144	157	--	91.9	--	140	--	72.0	--	48.2	--	46.4	--	296
	Chloride	--	23.8	--	18.4	21.9	--	14.1	--	24.0	--	35.6	--	6.1	--	5.8	--	131
	Fluoride	<0.050	<0.050	<0.050	<0.050	<0.050	0.055 J	<0.050	0.064 J	0.053 J	0.10	0.11	<0.050	<0.050	<0.050	0.053 J	<0.050	<0.050
	pH	7.54	7.41	7.00	7.04	7.12	7.14	7.04	6.66	6.70	7.33	7.27	6.48	6.48	6.66	6.61	7.35	7.24
	Sulfate	--	104	--	301	299	--	115	--	317	--	93.7	--	67.3	--	66.8	--	504
	TDS	--	321	--	752	786	--	445	--	610	--	374	--	240	--	205	--	1100
APPENDIX IV	Antimony	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	
	Arsenic	0.0054	0.0053	0.0011 J	0.0020 J	<0.00078	<0.00078	0.0020 J	<0.00078	0.0013 J	<0.00078	0.0017 J	<0.00078	0.0014 J	<0.00078	<0.00078	0.0016 J	<0.00078
	Barium	0.039	0.041	0.043	0.039	0.042	0.036	0.032	0.028	0.028	0.017	0.018	0.034	0.031	0.026	0.028	0.039	0.033
	Beryllium	<0.000046	<0.000046	0.000046 J	<0.000046	<0.000046	<0.000046	<0.000046	0.00013 J	0.00014 J	0.000065 J	<0.000046	0.000068 J	0.000061 J	0.000052 J	0.000055 J	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.00016 J	0.0018	0.0018	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	<0.00055	<0.00055	<0.00055	0.00079 J	<0.00055	0.026	<0.00055	0.0019 J	<0.00055	<0.00055	<0.00055	<0.00055	0.00065 J	<0.00055	<0.00055	0.00078 J	0.0011 J
	Cobalt	<0.00038	0.00052 J	0.00066 J	0.00048 J	0.0019 J	0.0013 J	<0.00038	0.0088	0.0078	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
	Fluoride	<0.050	<0.050	<0.050	<0.050	<0.050	0.055 J	<0.050	0.064 J	0.053 J	0.10	0.11	<0.050	<0.050	<0.050	0.053 J	<0.050	<0.050
	Lead	<0.000036	<0.000036	0.000087 J	0.00013 J	<0.000036	<0.000036	<0.000036	0.00013 J	0.000080 J	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036
	Lithium	0.0011 J	0.00092 J	0.0011 J	0.0012 J	0.00082 J	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	0.041	0.036
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.00017 J	0.00012 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Molybdenum	0.0036 J	0.0035 J	<0.00069	<0.00069	0.0016 J	0.0045 J	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069	0.028	0.024
	Comb. Radium 226/228	1.52	1.51 U	0.608 U	0.369 U	0.701 U	1.00	1.10 U	0.721 U	0.920 U	0.723 U	0.391 U	0.620 U	1.21 U	1.05 U	0.848 U	0.870 U	1.49
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	0.0017 J	0.0017 J	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
Thallium	<0.00014	<0.00014	<0.00014	<0.00014	0.00031 J	0.00077 J	0.00023 J	0.00023 J	0.00019 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	

Table 5
Summary of Groundwater Analytical Data
Plant Bowen AP-1, Bartow County, Georgia

Well ID:	BGWC-21	BGWC-21	BGWC-22	BGWC-22	BGWC-23	BGWC-23	BGWC-24	BGWC-24	BGWC-25	BGWC-25	BGWC-30	BGWC-30	BGWA-6	BGWA-6	BGWC-31	BGWC-31	BGWC-32	BGWC-32	
Sample Date:	2/19/2021	3/29/2021	2/19/2021	3/29/2021	2/19/2021	3/26/2021	2/19/2021	3/26/2021	2/23/2021	3/26/2021	3/8/2021	3/25/2021	2/18/2021	3/31/2021	2/22/2021	3/29/2021	2/23/2021	3/30/2021	
Parameter ^(1,2)																			
APPENDIX III	Boron	--	0.038 J	--	17.3	--	15.8	--	31.0	--	0.17	--	1.1	--	0.013 J	--	0.70	--	5.2
	Calcium	--	46.6	--	714	--	717	--	821	--	52.8	--	81.1	--	63.4	--	77.2	--	289
	Chloride	--	5.0	--	886	--	928	--	1240	--	5.7	--	85.5	--	13.4	--	9.4	--	355
	Fluoride	<0.050	<0.050	0.20	0.22	<0.050	0.054 J	0.14	0.095 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.13	0.14
	pH	7.64	7.75	6.90	6.71	7.05	6.91	6.66	6.54	7.44	7.36	7.44	7.21	7.34	7.17	7.21	6.97	7.08	7.07
	Sulfate	--	55.2	--	772	--	679	--	515	--	21.3	--	28.1	--	21.9	--	35.9	--	368
	TDS	--	198	--	2430	--	2690	--	3070	--	215	--	358	--	299	--	352	--	1030
APPENDIX IV	Antimony	<0.00028	<0.00028	0.00028 J	<0.00028	0.00031 J	<0.0028	0.00036 J	<0.0028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.00036 J	<0.00028	
	Arsenic	0.00079 J	<0.00078	0.0039 J	<0.0078	0.0049 J	<0.0078	0.0054	<0.0078	0.0040 J	0.0025 J	<0.00078	0.0015 J	0.0011 J	<0.00078	0.0049 J	0.0038 J	0.0032 J	<0.00078
	Barium	0.030	0.025	0.086	0.079	0.12	0.12	0.081	0.075	0.019	0.018	0.074	0.060	0.012	0.052	0.041	0.039	0.13	0.13
	Beryllium	<0.000046	<0.000046	0.00013 J	0.00011 J	<0.000046	<0.00046	0.00018 J	<0.00046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	0.00038 J	<0.0012	<0.00012	<0.0012	0.0068	0.0062	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	<0.00055	0.0025 J	<0.00055	<0.0055	<0.00055	<0.0055	<0.00055	<0.0055	<0.00055	<0.00055	0.0011 J	0.00082 J	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055
	Cobalt	0.0013 J	0.00069 J	0.032	0.029 J	0.00044 J	<0.0038	0.0042 J	<0.0038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	0.00094 J	<0.00038	<0.00038	0.0062	0.0014 J
	Fluoride	<0.050	<0.050	0.20	0.22	<0.050	0.054 J	0.14	0.095 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.13	0.14
	Lead	0.000087 J	0.000094 J	0.00011 J	0.000061 J	<0.000036	0.00031 J	0.000043 J	0.000071 J	0.000074 J	0.00013 J	0.00018 J	0.00015 J	0.000057 J	0.00016 J	0.00045 J	0.00061 J	0.000072 J	<0.000036
	Lithium	<0.00081	<0.00081	0.035	0.033	0.040	0.039 J	0.0086 J	<0.0081	<0.00081	<0.00081	0.0012 J	<0.00081	<0.00081	0.00082 J	<0.00081	<0.00081	<0.00081	<0.00081
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.0033	0.00057 J	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Molybdenum	0.0013 J	0.0021 J	0.046	0.045	0.011	0.011 J	<0.00069	<0.0069	<0.00069	<0.00069	0.0031 J	0.0017 J	<0.00069	0.0010 J	<0.00069	<0.00069	0.0032 J	0.0037 J
	Comb. Radium 226/228	1.00 U	0.471 U	2.63	4.10	1.17 U	1.04 U	1.07 U	2.91	0.456 U	0.134 U	0.429 U	1.48	0.232 U	0.301 U	1.07 U	1.63	1.55	2.04
	Selenium	<0.0016	<0.0016	<0.0016	<0.016	<0.0016	<0.016	0.0065	<0.016	<0.0016	<0.0016	0.0048 J	0.0021 J	<0.0016	0.0032 J	<0.0016	<0.0016	<0.0016	<0.0016
Thallium	<0.00014	<0.00014	0.00089 J	<0.00014	0.00039 J	0.00069 J	0.00050 J	0.00057 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	0.00017 J	<0.00014	<0.00014	0.00015 J	0.00016 J	

Table 5
Summary of Groundwater Analytical Data
Plant Bowen AP-1, Bartow County, Georgia

Well ID:	BGWC-34D	BGWC-34D	BGWC-35D	BGWC-35D	BGWC-36D	BGWC-36D	BGWC-37D	BGWC-37D	BGWC-38D	BGWC-38D	BGWC-39	BGWC-39	BGWC-40	BGWC-40	BGWC-41D	BGWC-41D	BGWC-42D	BGWC-42D		
Sample Date:	2/19/2021	3/30/2021	2/22/2021	3/26/2021	3/8/2021	3/25/2021	2/22/2021	3/26/2021	3/9/2021	3/29/2021	2/22/2021	3/31/2021	2/22/2021	3/30/2021	2/22/2021	3/31/2021	2/22/2021	4/1/2021		
Parameter ^(1,2)																				
APPENDIX III	Boron	--	0.27	--	11.2	--	5.9	--	1.5	--	6.8	--	6.7	--	3.6	--	1.1	--	1.9	
	Calcium	--	112	--	529	--	162	--	103	--	161	--	336	--	158	--	166	--	94.0	
	Chloride	--	37.2	--	696	--	248	--	87.7	--	227	--	337	--	175	--	261	--	98.2	
	Fluoride	<0.050	<0.050	0.21	0.13	0.14	0.12	0.30	0.27	0.67	0.73	0.095 J	0.080 J	<0.050	0.060 J	0.099 J	0.077 J	0.69	0.72	
	pH	7.26	7.19	7.16	7.02	7.12	7.27	7.49	7.14	6.97	7.02	6.87	6.80	7.08	7.04	7.48	7.44	7.50	7.44	
	Sulfate	--	127	--	647	--	137	--	150	--	136	--	314	--	144	--	262	--	115	
	TDS	--	346	--	2220	--	902	--	496	--	702	--	1060	--	582	--	1010	--	502	
APPENDIX IV	Antimony	<0.00028	0.00079 J	0.00066 J	<0.00028	0.00096 J	<0.00028	0.00041 J	<0.00028	0.00062 J	<0.00028	<0.00028	<0.00028	<0.00028	0.00050 J	<0.00028	<0.00028	0.0019 J	0.0019 J	
	Arsenic	0.015	0.016	0.0034 J	0.0020 J	0.00096 J	0.0021 J	0.019	0.013	0.0021 J	0.0019 J	0.0026 J	<0.00078	0.0024 J	<0.00078	0.0033 J	0.0017 J	0.0068	0.0020 J	
	Barium	0.053	0.048	0.091	0.070	0.073	0.073	0.090	0.089	0.096	0.082	0.054	0.060	0.061	0.060	0.053	0.058	0.13	0.058	
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046
	Cadmium	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	0.00014 J	0.00018 J	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012	<0.00012
	Chromium	<0.00055	<0.00055	<0.00055	<0.00055	0.00057 J	0.00057 J	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	0.00081 J	<0.00055	0.00068 J	0.0011 J	0.00062 J
	Cobalt	0.00057 J	0.00065 J	0.0011 J	0.0015 J	<0.00038	<0.00038	0.00070 J	0.0011 J	0.0014 J	0.0015 J	<0.00038	<0.00038	0.00060 J	0.00052 J	0.00053 J	<0.00038	<0.00038	<0.00038	
	Fluoride	<0.050	<0.050	0.21	0.13	0.14	0.12	0.30	0.27	0.67	0.73	0.095 J	0.080 J	<0.050	0.060 J	0.099 J	0.077 J	0.69	0.72	
	Lead	<0.000036	<0.000036	0.00011 J	<0.000036	0.00011 J	<0.000036	0.000082 J	<0.000036	<0.000036	<0.000036	<0.000036	<0.000036	0.00014 J	0.00018 J	<0.000036	0.000036 J	0.000041 J	0.000044 J	
	Lithium	<0.00081	<0.00081	0.014 J	0.020 J	0.0017 J	0.0022 J	0.0092 J	0.0066 J	0.011 J	0.012 J	0.0038 J	0.0039 J	<0.00081	0.00086 J	0.0017 J	0.0017 J	<0.00081	0.0022 J	
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Molybdenum	0.00090 J	0.0011 J	0.035	0.036	0.0083 J	0.013	0.012	0.017	0.13	0.13	0.0076 J	0.0062 J	<0.00069	<0.00069	0.013	0.011	0.0052 J	0.0059 J	
	Comb. Radium 226/228	2.23	1.35 U	2.03	2.40	2.09	2.43	1.73	3.15	3.34	3.54	1.65	0.251 U	1.31 U	0.826 U	1.91	1.00	0.578 U	0.461 U	
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	0.011	0.012	<0.0016	<0.0016	0.0050	<0.0016	<0.0016	0.0020 J	0.0094	0.0098	<0.0016	0.0016 J	<0.0016	0.0027 J	
Thallium	<0.00014	<0.00014	0.00016 J	<0.00014	0.00020 J	0.00019 J	<0.00014	<0.00014	<0.00014	0.00018 J	0.00021 J	0.00017 J	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014		

Table 5
Summary of Groundwater Analytical Data
Plant Bowen AP-1, Bartow County, Georgia

Well ID:		BGWC-43D	BGWC-43D	BGWC-44D	BGWC-44D	BGWC-49D	BGWC-50D	BGWC-51	BGWC-51	BGWC-51	BGWC-52	BGWC-52	BGWC-52
Sample Date:		3/8/2021	3/29/2021	2/18/2021	3/31/2021	4/19/2021	4/19/2021	1/28/2021	2/23/2021	3/30/2021	1/28/2021	2/23/2021	3/30/2021
Parameter ^(1,2)													
APPENDIX III	Boron	--	12.8	--	0.038 J	7.9	0.16	24.9	--	23.3	9.7	--	9.7
	Calcium	--	326	--	50.9	204	50.8	624	--	562	350	--	353
	Chloride	--	443	--	21.9	419	25.6	835	--	772	484	--	472
	Fluoride	0.90	1.0	0.16	0.088 J	0.055 J	0.078 J	0.17	0.087 J	0.11	0.10	0.073 J	0.12
	pH	7.08	7.02	7.64	7.40	7.45	7.54	6.81	6.71	6.64	7.01	6.95	6.82
	Sulfate	--	301	--	42.9	223	26.7	562	--	636	308	--	347
	TDS	--	700	--	308	970	270	2950	--	1980	1460	--	1170
APPENDIX IV	Antimony	0.00058 J	<0.00028	0.0090	0.0026 J	0.00039 J	0.0019 J	<0.00028	<0.00028	0.0019 J	0.0019 J	0.00053 J	0.00085 J
	Arsenic	0.0013 J	0.0010 J	0.0078	0.0043 J	0.0023 J	0.0032 J	0.0012 J	0.0048 J	0.0065 J	0.00099 J	0.0028 J	0.0010 J
	Barium	0.068	0.065	0.026	0.025	0.077	0.033	0.061	0.054	0.051	0.076	0.095	0.084
	Beryllium	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	<0.000046	0.000083 J	0.00011 J	0.00021 J	<0.000046	<0.000046	0.000052 J
	Cadmium	0.00030 J	0.00019 J	<0.00012	<0.00012	<0.00012	<0.00012	0.00031 J	0.00043 J	0.00070	0.00025 J	<0.00012	0.00018 J
	Chromium	<0.00055	<0.00055	0.00093 J	0.00094 J	0.00071 J	<0.00055	<0.00055	0.00060 J	<0.0028	<0.00055	<0.00055	0.00061 J
	Cobalt	0.0043 J	0.0057	<0.00038	<0.00038	0.00079 J	0.0013 J	<0.00038	<0.00038	<0.0019	0.0048 J	0.0033 J	0.0031 J
	Fluoride	0.90	1.0	0.16	0.088 J	0.055 J	0.078 J	0.17	0.087 J	0.11	0.10	0.073 J	0.12
	Lead	<0.000036	<0.000036	0.00017 J	<0.000036	0.000044 J	0.00014 J	0.00016 J	0.00015 J	0.00022 J	0.000054 J	0.00010 J	0.00011 J
	Lithium	0.024 J	0.026 J	0.0035 J	0.0029 J	0.0083 J	<0.00081	0.0017 J	0.0015 J	0.0035 J	0.0037 J	0.0038 J	0.0038 J
	Mercury	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	0.0046	0.0033	0.0020	0.00019 J	<0.000078	<0.000078
	Molybdenum	0.20	0.21	0.0062 J	0.0023 J	0.0067 J	0.0043 J	<0.00069	<0.00069	0.0027 J	0.0038 J	0.0039 J	0.0035 J
	Comb. Radium 226/228	1.34	1.62 U	1.34	0.517 U	2.45	1.01 U	0.444 U	0.589 U	0.852 U	1.59	0.567 U	1.66 U
	Selenium	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	0.014	0.013	0.010 J	<0.0016	0.0016 J	<0.0016
Thallium	0.0015	0.0016	<0.00014	<0.00014	<0.00014	<0.00014	0.00020 J	<0.00014	0.00040 J	0.00045 J	0.00023 J	0.00024 J	

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Bowen AP-1, Bartow County, Georgia

Analyte	Units	Background⁽²⁾	Federal GWPS⁽³⁾	State GWPS⁽⁴⁾
Antimony	mg/L	0.0042	0.006	0.006
Arsenic	mg/L	0.01	0.01	0.01
Barium	mg/L	0.22	2	2
Beryllium	mg/L	0.0005	0.004	0.004
Cadmium	mg/L	0.0005	0.005	0.005
Chromium	mg/L	0.005	0.1	0.1
Cobalt	mg/L	0.005	0.006	0.005
Fluoride	mg/L	0.57	4	4
Lead	mg/L	0.0024	0.015	0.0024
Lithium	mg/L	0.03	0.04	0.03
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.034	0.1	0.034
Selenium	mg/L	0.005	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002
Combined Radium-226/228	pCi/L	1.7	5	5

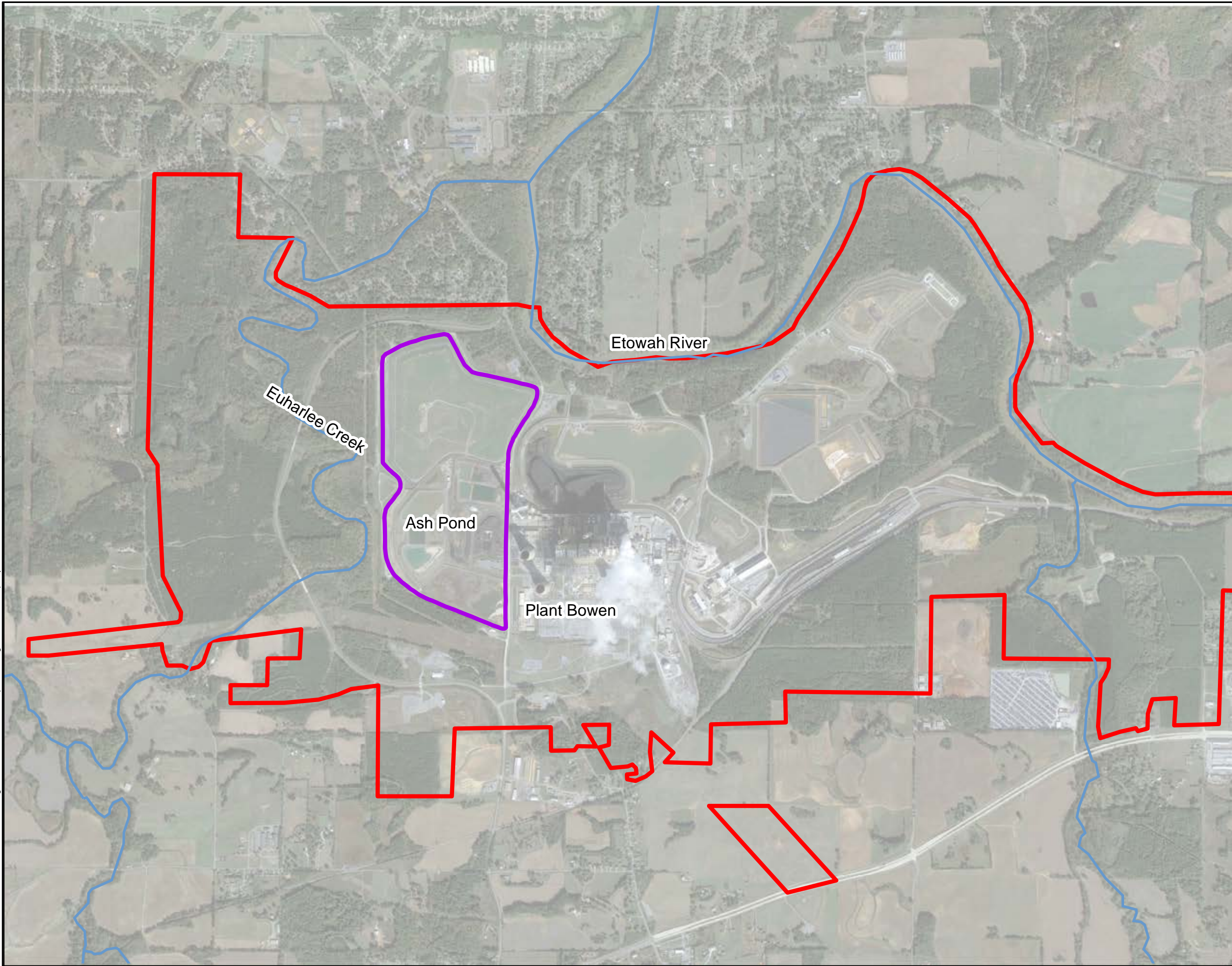
Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

- (1) Statistical analyses were performed on semiannual monitoring events for data through March 2021.
- (2) The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR 257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
- (3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
- (4) Under the existing EPD rules, the GWPS is: (i) the MCL; (ii) where the MCL is not established, the background concentration; or (iii) background concentrations for constituents where the background concentration is higher than the MCL.

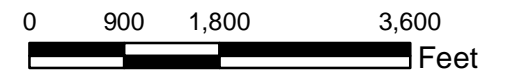
FIGURES



LEGEND

- ▭ Approximate Site Boundary
- ▭ Approximate AP-1 Boundary
- River or Stream

Notes:
1. Aerial photograph source: Google Earth Pro, November 2019.



SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

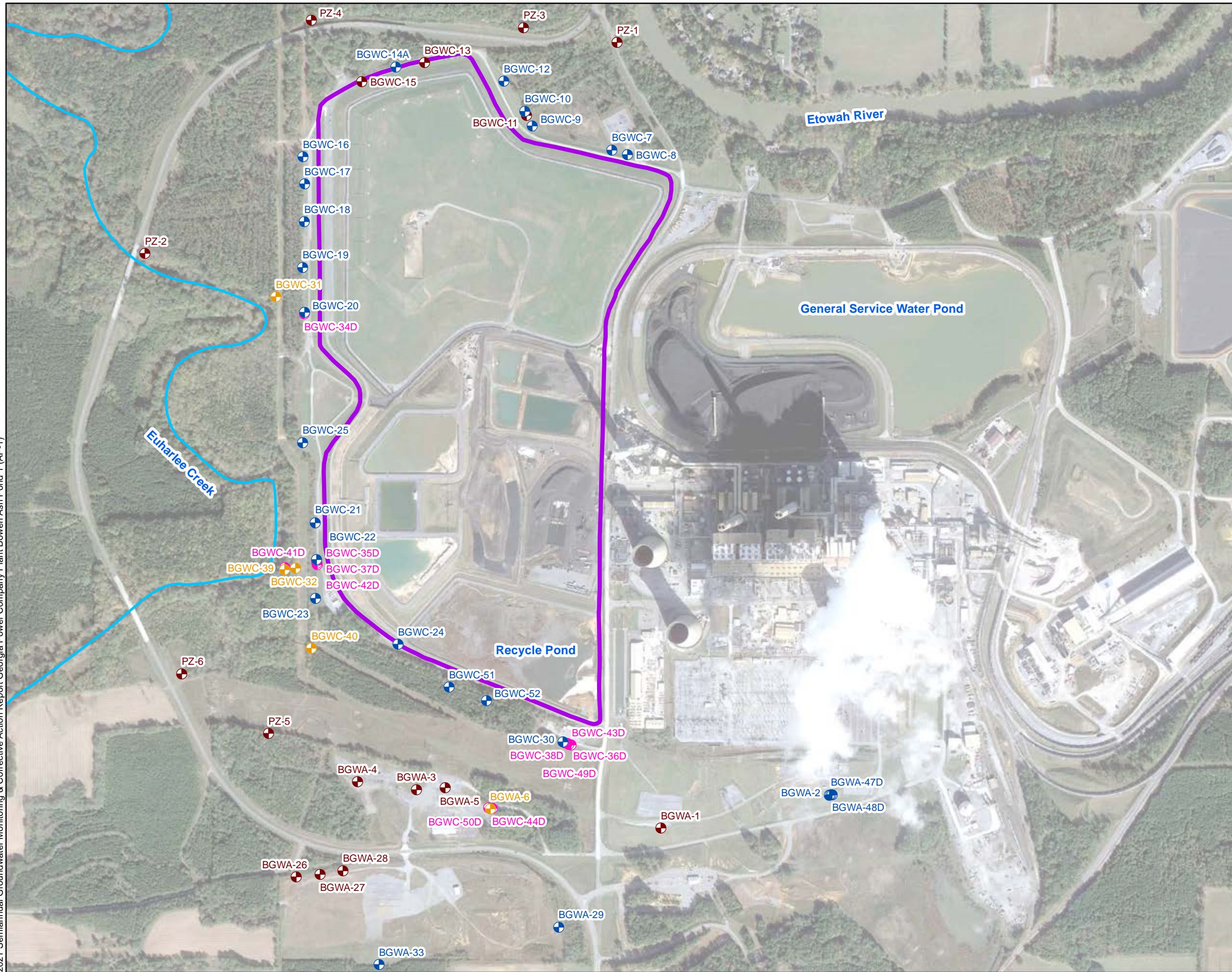
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA

AUGUST 2021

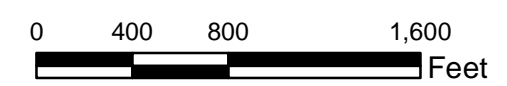
**FIGURE
1**



LEGEND

- Compliance Monitoring Well
- ⊕ Horizontal Delineation Monitoring Well
- ⊕ Vertical Delineation Monitoring Well
- ⊕ Piezometer
- Approximate AP-1 Boundary

Notes:
 1. All wells and piezometers presented are screened within the weathered fractured bedrock.
 2. Aerial photograph source: Google Earth Pro, November 2019.



MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
 PLANT BOWEN AP-1
 BARTOW COUNTY, GEORGIA

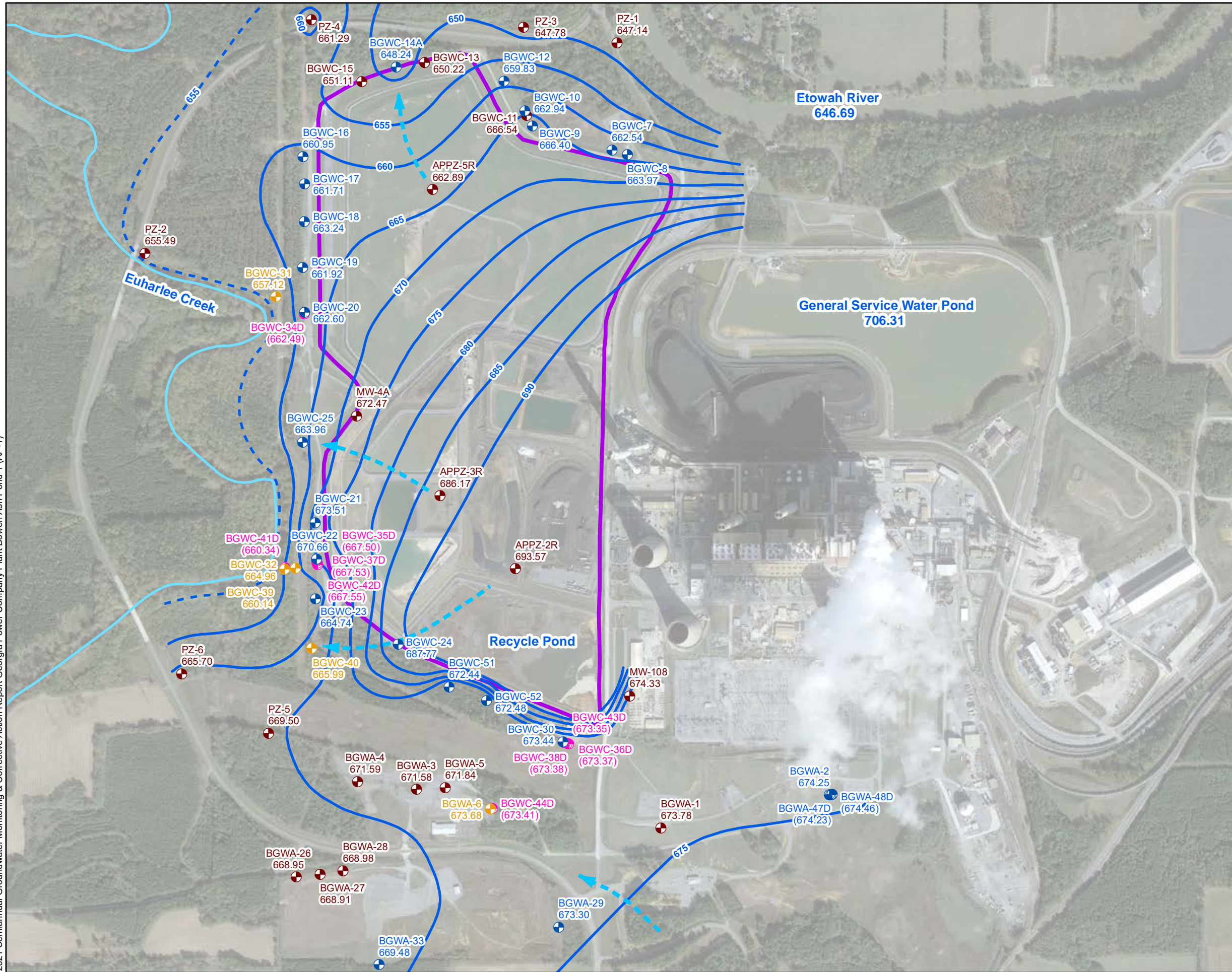
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

AUGUST 2021

FIGURE
2



LEGEND

- ⊕ Compliance Monitoring Well
- ⊕ Horizontal Delineation Monitoring Well
- ⊕ Vertical Delineation Monitoring Well
- ⊕ Piezometer
- Groundwater Elevation Contour (dashed where inferred)
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary

- Notes:
1. Water level elevations recorded on February 15, 2021. Elevation provided in feet referenced to the North American Vertical Datum (NAVD) 88. The Recycle Pond water elevation is currently below the measuring threshold of the installed gauge. Based on information provided by Georgia Power, the lowest elevation that the gauge can measure is 699 ft NAVD.
 2. Surface water elevations of Etowah River and General Service Water Pond are recorded using In-Situ® Instruments, Inc.'s Win-Situ® reporting software, and Level Troll 500® pressure transducers.
 3. The map shows only the wells/piezometers currently installed at the time of the gauging event.
 4. Water elevation in parentheses is not used in development of groundwater contours due to well being screened at a different elevation in the formation/aquifer.
 5. Aerial photograph source: Google Earth Pro, November 2019.



POTENTIOMETRIC SURFACE CONTOUR MAP - FEBRUARY 2021

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

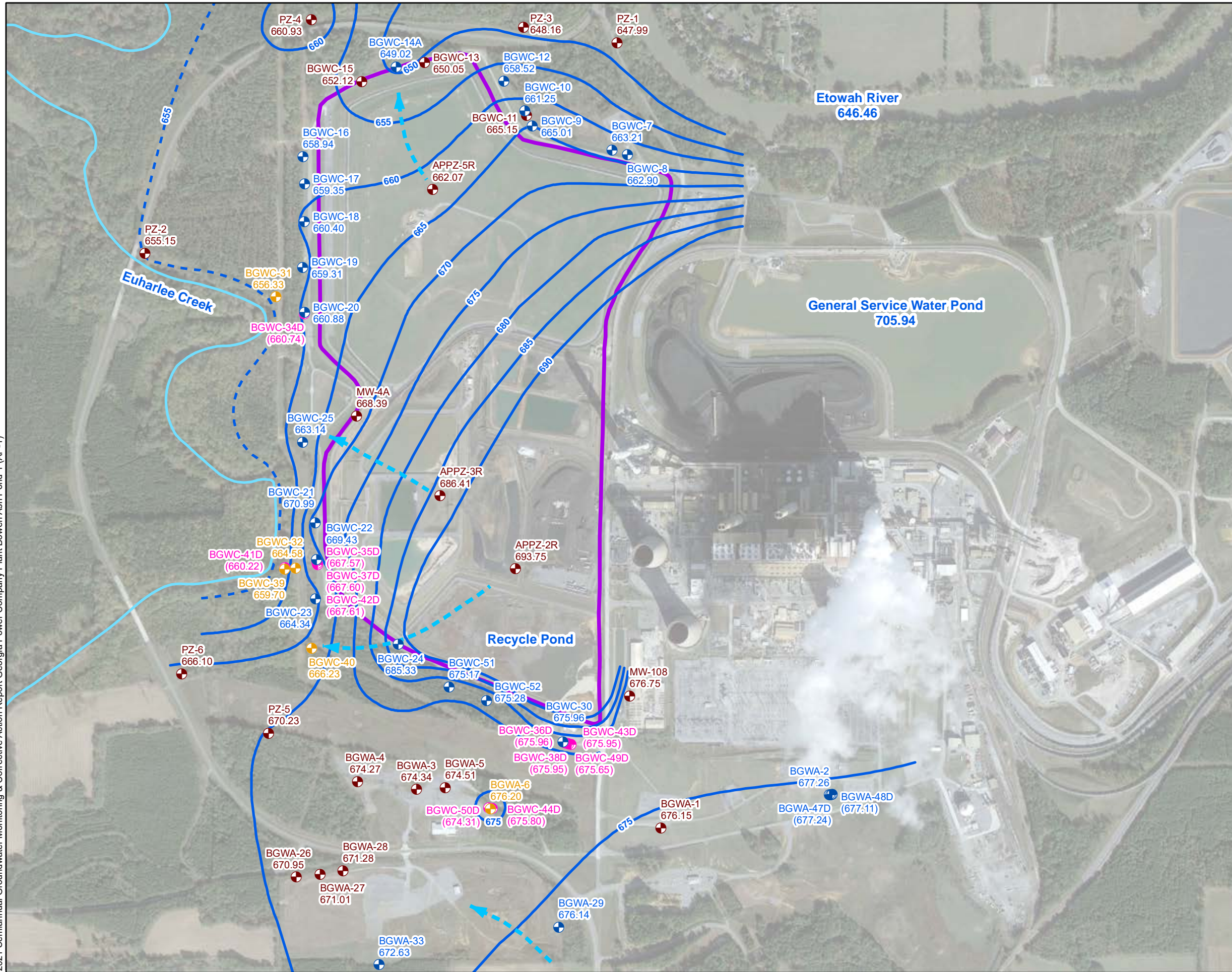
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

FIGURE 3

KENNESAW, GA

AUGUST 2021

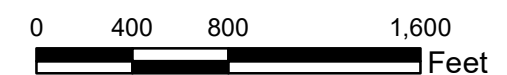


LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Monitoring Well
- Vertical Delineation Monitoring Well
- Piezometer
- Groundwater Elevation Contour (dashed where inferred)
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary

Notes:

1. Water level elevations recorded on March 22, 2021. Elevation provided in feet referenced to the North American Vertical Datum (NAVD) 88. The Recycle Pond water elevation is currently below the measuring threshold of the installed gauge. Based on information provided by Georgia Power, the lowest elevation that the gauge can measure is 699 ft NAVD.
2. Surface water elevations of Etowah River and General Service Water Pond are recorded using In-Situ® Instruments, Inc.'s Win-Situ® reporting software, and Level Troll 500® pressure transducers.
3. The map shows only the wells/piezometers currently installed at the time of the gauging event.
4. Water elevation in parentheses is not used in development of groundwater contours due to well being screened at a different elevation in the formation/aquifer.
5. Aerial photograph source: Google Earth Pro, November 2019.



POTENTIOMETRIC SURFACE CONTOUR MAP - MARCH 2021

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

FIGURE
4

KENNESAW, GA

AUGUST 2021

APPENDIX A

Ash Pond Monitoring Well Certification Report – Addendums No 4 & 5, Plant Bowen Ash Pond 1

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

ASH POND MONITORING WELL CERTIFICATION REPORT – ADDENDUM

No. 4

PLANT BOWEN ASH POND 1

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581C

March 2021



**ASH POND MONITORING WELL CERTIFICATION
REPORT – ADDENDUM No. 4**

Plant Bowen

Ash Pond 1

March 24, 2021

A handwritten signature in black ink, appearing to read "Whitney B. Law".

Whitney Law, P.E.
Project Manager
Geosyntec Consultants



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Appendix B	Boring and Well Construction Logs
Appendix C	Well Development Forms
Appendix D	Certified Well Survey Data

LIST OF ACRONYMS

AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of two groundwater monitoring wells to supplement the current groundwater monitoring system at Georgia Power Company (GPC) Plant Bowen (Site) Ash Pond 1 (AP-1). Two wells (BGWC-51D and BGWC-52D) were installed to characterize groundwater conditions in the uppermost aquifer within the south area of AP-1. This report was prepared as an addendum to previously issued well certification reports prepared for the Site (Anchor QEA, 2017; Geosyntec, 2019, Geosyntec, 2020a, Geosyntec, 2020b), and meets the requirements promulgated in the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Bowen is a four-unit, coal-fired, electric-generating facility located nine miles southwest of Cartersville in Bartow County, Georgia. The current groundwater monitoring system at AP-1 includes 24 wells associated with the certified CCR compliance monitoring well network and a network of delineation monitoring wells and groundwater level monitoring piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc of Midland, North Carolina under contract with, and the supervision of, Southern Company Services (SCS) Civil Field Services (CFS) personnel. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. CFS personnel oversaw the drilling and installation efforts. Resolute Environmental & Water Resources Consulting was responsible for developing the newly installed wells. A professional geologist employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities.

AP-1 area wells were installed in January 2021. The locations of wells BGWC-51 and BGWC-52 are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

Drilling methods used for borehole advancement were rotosonic drilling techniques with continuous core collection. Care was taken so that the drilling methods minimized the disturbance of subsurface materials and did not allow contamination of the groundwater. Drilling equipment was pressure washed between each well.

2.2 Screened Interval

Details regarding the well screen intervals are provided in **Table 1**. Wells are screened in the uppermost water bearing unit from approximately 655 to 628 feet (ft) (referenced to the North American Vertical Datum of 1988). All wells are constructed with 10 feet of well screen.

2.3 Well Casings and Screens

The wells are constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. Each well was installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casings and screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screen was

constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. Casing and screens are flush-threaded. Solvent or glue was not used to construct the wells. A 4-inch long threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

Wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the wells. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite of Southern Products & Silica Co. silica sand filter pack was used as the appropriate gradation for all wells. Highly Pure Quartzite meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Filter pack material placed in the annular space outside of the well screen extended approximately 2 to 3 feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, each well was pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite pellets (PelPlug non-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular

space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. Following the hydration period, the bentonite seal was extended, if warranted by the presence of softer geologic material or voids above the filter pack, to at least one foot above the residual soil/bedrock contact observed to prevent bentonite grout from entering the water-bearing or screened zone. The bentonite was hydrated with potable water for a duration meeting or exceeding the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AQUAGUARD bentonite grout placed via tremie pipe from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around each well. The pad is mounded slightly outward to direct surface drainage away from the well.

2.7 Cap and Protective Casing

The well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. Wells are clearly marked with the proper well identification number on the stand-up casing. Construction details are documented on the well construction logs provided in **Appendix B**.

3. WELL DEVELOPMENT

Monitoring wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. Wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed. The development forms are included in **Appendix C**.

All equipment and tubing placed in the well was decontaminated or disposed of between wells.

4. SURVEY

Upon completion of the well installation, the horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at each well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the AP-1 well network is provided in **Appendix D**.

5. REFERENCES

- Anchor QEA. 2017. *Ash Pond Monitoring Well Certification Report*, October 2017.
- Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.
- Geosyntec Consultants. 2019. *Ash Pond Monitoring Well Certification Report - Addendum*, June 2019.
- Geosyntec Consultants. 2020a. *Ash Pond Monitoring Well Certification Report – Addendum No. 2*, January 2020.
- Geosyntec Consultants. 2020b. *Ash Pond Monitoring Well Certification Report – Addendum No. 3*, July 2020.
- United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81, April 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Bowen AP-1, Bartow County, Georgia

Well ID	Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft NAVD88) ⁽²⁾	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft BTOC) ⁽³⁾
BGWC-51	Compliance Well	1/22/2021	1500270.09	2065455.80	708.99	711.49	654.57	644.57	67.25
BGWA-52	Compliance Well	1/21/2021	1500156.97	2065764.13	707.77	710.75	638.88	628.88	82.20

Notes:

ft BTOC = feet below top of casing.

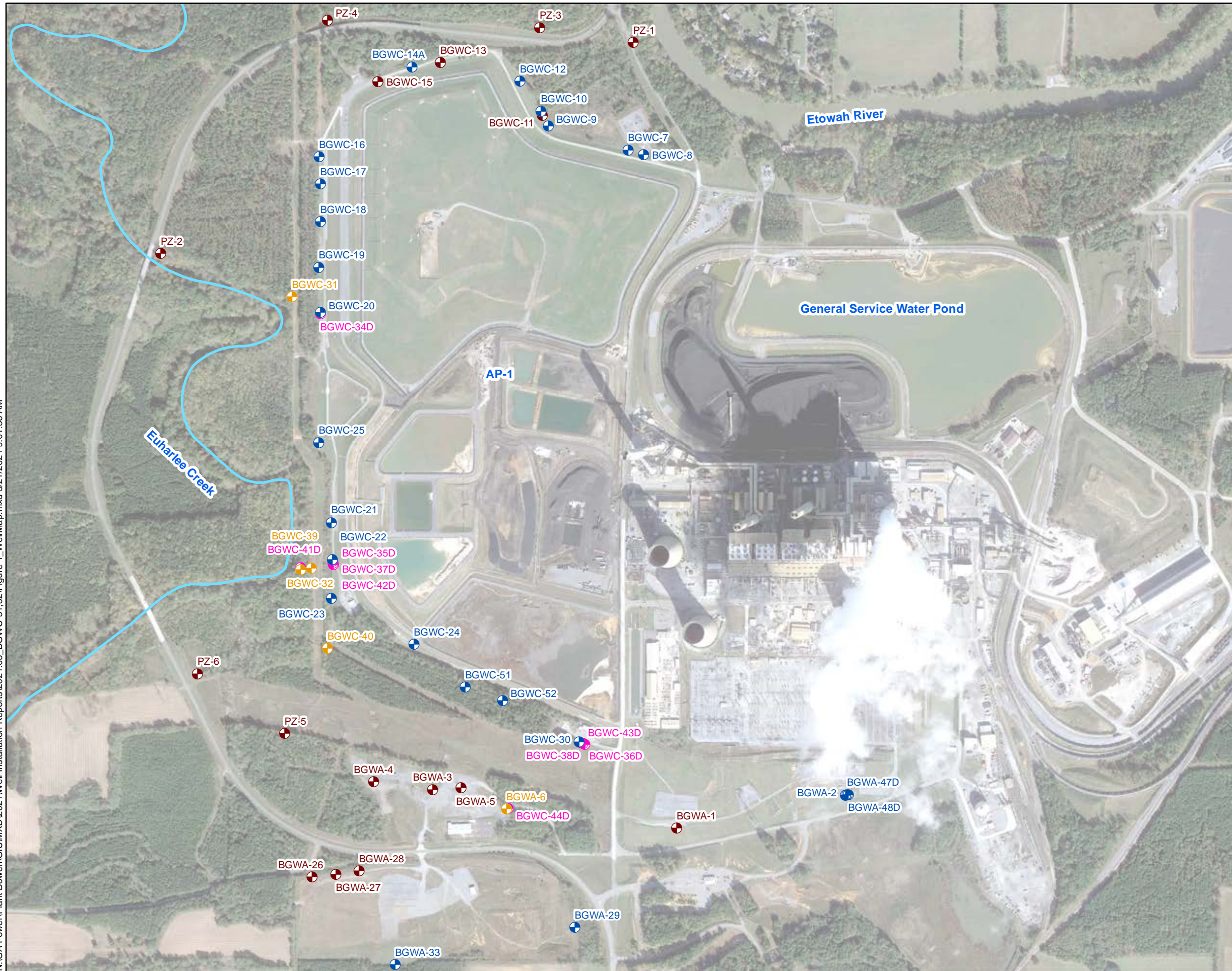
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey completed by GEL Solutions on January 28, 2021.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.

(3) Total well depth accounts for 4-inch sump.

FIGURE

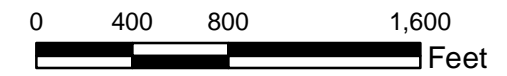
N:\GA Power\Plant Bowen\GIS\MXD\2021\Well Installation Reports\2021.03_BGWC-51_52\Figure 1_WellMap.mxd 3/21/2021 9:01:36 AM



LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Monitoring Well
- Vertical Delineation Monitoring Well
- Piezometer

Notes:
 1. All wells and piezometers presented are screened within the weathered fractured bedrock.
 2. Aerial photograph source: Google Earth Pro, November 2019.



GROUNDWATER MONITORING NETWORK MAP

GEORGIA POWER COMPANY
 PLANT BOWEN AP-1
 BARTOW COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

MARCH 2021

FIGURE 1

APPENDIX A

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

Issued on 9/27/2017
Expires on 6/30/2019
Renewed on 3/4/2019
Expires on 6/30/2021

does hereby continue said bond in force for the further period

beginning on 06/30/2019
(MONTH-DAY-YEAR)

and ending on 06/30/2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium: \$1200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on March 4th, 2019
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

APPENDIX B

Boring and Well Construction Logs

CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Bowen Well Installation</u>
PROJECT NUMBER <u>GW6581C</u>	PROJECT LOCATION <u>Euharlee, GA</u>
DATE STARTED <u>1/22/21</u> COMPLETED <u>1/22/21</u>	NORTHING <u>1500270.09 ft</u> EASTING <u>2065455.80 ft</u>
DRILLER <u>Cascade Drilling</u>	GROUND ELEVATION <u>708.99 ft</u> BORING DIAMETER <u>6 in</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>711.49 ft</u>
SAMPLING METHOD <u>4 in core 6 in override</u>	GEOPHYSICAL CONTRACTOR <u>---</u>
RIG TYPE <u>Terrasonic 11-38212</u>	LOGGED BY <u>T. Kessler</u> CHECKED BY <u>J. Ivanowski</u>

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0				Air Knife Excavation (0 to 10 ft) NO SAMPLE	
5	705				
10	700			699.0 SILTY CLAY, Red with yellow and black mottling throughout, stiff, medium plasticity, trace sand, highly weathered rock fragments, moist. 697.0	
15	695			SAPROLITE, Pink, low plasticity clay, trace silts and sands, iron staining, remnant rock structures, moist.	
20	690	20 ft: Increased drill chatter.		20 ft: Dark reddish brown.	Bentonite grout
25	685			683.0 SANDY CLAY, Yellow, stiff, low plasticity, trace chert gravel, moist.	Schedule 40 2" PVC
30	680	30 to 40 ft: Intermittant increase of drill chatter.		30 ft: Strong brown with black mottling, trace silt and sand.	
	675				

SCS MONITORING WELLS BGWC51 AND 52 JANUARY 2021.GPJ ACP GINT LIBRARY CH.GLB 2/9/21

(Continued Next Page)

CLIENT Southern Company Services

PROJECT NAME Plant Bowen Well Installation

PROJECT NUMBER GW6581C

PROJECT LOCATION Euharlee, GA

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
35				SANDY CLAY, Yellow, stiff, low plasticity, trace chert gravel, moist. (continued)	
				37 ft: Yellow.	
40	670			40 ft: Reddish yellow.	
					Bentonite grout
45	665				
50	660			DOLOMITE/DOLOMITIC LIMESTONE, White, pink, gray, thinly laminated, iron staining, fractures present.	
					Bentonite uncoated 3/8" chips
55	655	55 ft: Highly weathered.			20/40 Silica Sand
		57 to 60 ft: Void space encountered. Rods dropping without resistance.			Top of screen elevation: 654.57 ft
60	650			NO RECOVERY (VOID 57-60 ft)	
					0.010 slot size 2" Pre Pack, U-Pack Screen
65	645	60 to 70 ft: Very soft drilling, no drill chatter.		NO RECOVERY (60 - 70 ft)	
					Bottom of screen elevation: 644.57 ft
70	640				4" sump
					Bottom of well elevation: 644.24 ft
					Bentonite uncoated 3/8" chips backfill.
					Bottom of borehole at 70.0 feet.

SCS MONITORING WELLS BGWC51 AND 52, JANUARY 2021.GPJ ACP GINT LIBRARY CH.GLB 2/9/21

CLIENT Southern Company Services

PROJECT NAME Plant Bowen Well Installation

PROJECT NUMBER GW6581C

PROJECT LOCATION Euharlee, GA

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
40				LIMESTONE, Gray, fine grained, thinly bedded, occasional white chert veins, iron staining near the top.	
43	665	40 to 43 ft: No recovery.			
45		43 ft: Increased drill chatter. Slow drilling with minimal water return.			
50	660			50 ft: Black chert veins throughout, iron staining on fractured surfaces.	
54	655	54 ft: Increased drill chatter.			
55					
60	650				
64	645	64 ft: Return water changed from clear to white.			
65					
65	640				
70				70 ft: Trace iron staining.	
75	635				
75		76 to 80 ft: Slow drilling with no return of water.			
80	630			From 78 ft: With abundance of chert, white, iron staining throughout.	

Bottom of borehole at 80.0 feet.

627.8

SCS MONITORING WELLS BGWC51 AND 52 JANUARY 2021.GPJ ACP GINT LIBRARY CH.GLB 2/9/21

APPENDIX C

Well Development Forms

Low-Flow Test Report:

Test Date / Time: 1/26/2021 2:20:11 PM

Project: Plant Bowen AP 2021 Well Development

Operator Name: Veronica Fay

Location Name: BGWC-51 WD Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 54.5 ft Total Depth: 67.29 ft Initial Depth to Water: 41.7 ft	Pump Type: QED Reclaimer Tubing Type: LDPE Tubing Inner Diameter: 0.5 in Tubing Length: 70 ft Pump Intake From TOC: 59.4 ft Estimated Total Volume Pumped: 9900 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: -0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
---	---	--

Test Notes:

Prepurged 186 L. GW had a lot of clay particles .

A rock was initially logged in top valve of reclaimer pump which allowed for a higher pump rate during prepurging. Rock was removed and pump behaved normally again

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
1/26/2021 2:20 PM	00:00	6.57 pH	17.97 °C	3,465.2 µS/cm	1.80 mg/L	17.30 NTU	-32.0 mV	41.56 ft	1.84 PSU	300.00 ml/min
1/26/2021 2:23 PM	03:00	6.56 pH	17.97 °C	3,425.4 µS/cm	1.88 mg/L	16.40 NTU	-16.6 mV	41.56 ft	1.82 PSU	300.00 ml/min
1/26/2021 2:26 PM	06:00	6.56 pH	17.97 °C	3,409.5 µS/cm	1.81 mg/L	15.50 NTU	-12.3 mV	41.54 ft	1.81 PSU	300.00 ml/min
1/26/2021 2:29 PM	09:00	6.57 pH	17.97 °C	3,397.1 µS/cm	1.79 mg/L	15.30 NTU	-7.3 mV	41.54 ft	1.80 PSU	300.00 ml/min
1/26/2021 2:32 PM	12:00	6.56 pH	17.97 °C	3,383.0 µS/cm	1.77 mg/L	12.90 NTU	-2.1 mV	41.54 ft	1.79 PSU	300.00 ml/min
1/26/2021 2:35 PM	15:00	6.56 pH	17.98 °C	3,325.2 µS/cm	1.80 mg/L	12.20 NTU	1.2 mV	41.54 ft	1.76 PSU	300.00 ml/min
1/26/2021 2:38 PM	18:00	6.56 pH	17.99 °C	3,309.0 µS/cm	1.72 mg/L	11.40 NTU	4.6 mV	41.54 ft	1.75 PSU	300.00 ml/min
1/26/2021 2:41 PM	21:00	6.56 pH	18.00 °C	3,282.2 µS/cm	1.70 mg/L	13.20 NTU	5.9 mV	41.54 ft	1.74 PSU	300.00 ml/min
1/26/2021 2:44 PM	24:00	6.57 pH	17.98 °C	3,262.2 µS/cm	1.75 mg/L	12.11 NTU	8.6 mV	41.54 ft	1.72 PSU	300.00 ml/min
1/26/2021 2:47 PM	27:00	6.57 pH	17.99 °C	3,239.5 µS/cm	1.71 mg/L	11.30 NTU	9.6 mV	41.54 ft	1.71 PSU	300.00 ml/min
1/26/2021 2:50 PM	30:00	6.57 pH	17.98 °C	3,230.1 µS/cm	1.78 mg/L	10.60 NTU	12.9 mV	41.54 ft	1.71 PSU	300.00 ml/min
1/26/2021 2:53 PM	33:00	6.56 pH	17.98 °C	3,194.8 µS/cm	1.71 mg/L	9.87 NTU	14.7 mV	41.54 ft	1.69 PSU	300.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/26/2021 12:12:37 PM

Project: Plant Bowen AP 2021 Well Development

Operator Name: Kevin Stephenson

Location Name: BGWC-52 WD Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 72.18 ft Total Depth: 82.18 ft Initial Depth to Water: 40.91 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 77.18 ft Estimated Total Volume Pumped: 25600 ml Flow Cell Volume: 90 ml Final Flow Rate: 1600 ml/min Final Draw Down: 0.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
---	--	--

Test Notes:

Pre-purged 31 gallons. Final Depth 82.18ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
1/26/2021 12:12 PM	00:00	6.97 pH	17.89 °C	2,187.3 µS/cm	1.20 mg/L	18.10 NTU	-140.2 mV	41.38 ft	1.13 PSU	1,600.0 ml/min
1/26/2021 12:16 PM	04:00	6.97 pH	17.83 °C	2,192.9 µS/cm	1.21 mg/L	8.37 NTU	-140.4 mV	41.38 ft	1.13 PSU	1,600.0 ml/min
1/26/2021 12:20 PM	08:00	6.97 pH	17.84 °C	2,185.9 µS/cm	1.16 mg/L	6.99 NTU	-135.5 mV	41.38 ft	1.13 PSU	1,600.0 ml/min
1/26/2021 12:24 PM	12:00	6.97 pH	17.83 °C	2,183.3 µS/cm	1.15 mg/L	6.95 NTU	-127.7 mV	41.38 ft	1.13 PSU	1,600.0 ml/min
1/26/2021 12:28 PM	16:00	6.97 pH	17.82 °C	2,174.7 µS/cm	1.15 mg/L	6.89 NTU	-124.1 mV	41.38 ft	1.12 PSU	1,600.0 ml/min

Samples

Sample ID:	Description:
------------	--------------

APPENDIX D

Certified Well Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
BGWC-51	1500270.088	2065455.804	711.489	1500271.133	2065456.272	708.991	NAIL
BGWC-52	1500156.965	2065764.132	710.748	1500158.037	2065764.506	707.772	NAIL
Benchmark	Northing	Easting	Elevation				
BM-B1	1504573.789	2067395.885	717.78				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 01/26/2021. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-B1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

1/28/2021



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

ASH POND MONITORING WELL CERTIFICATION REPORT – ADDENDUM

No. 5

PLANT BOWEN ASH POND 1 (AP-1)

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581C

May 2021



**ASH POND MONITORING WELL CERTIFICATION
REPORT – ADDENDUM No. 5**

Plant Bowen

Ash Pond 1

May 26, 2021

A handwritten signature in blue ink that reads "Christine Hug".

Christine Hug, P.G.
Project Geologist
Geosyntec Consultants



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Appendix D	Well Development Forms
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LIST OF ACRONYMS

AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD88	North American Vertical Datum of 1988
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of two groundwater monitoring wells, BGWC-49D and BGWC-50D, to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Bowen (Site) Ash Pond 1 (AP-1). Wells BGWC-49D and BGWC-50D will be used as groundwater delineation monitoring wells and supplement the current AP-1 delineation monitoring well network. This report was prepared as an addendum to previously issued well certification reports prepared for the Site (Anchor QEA, 2017; Geosyntec, 2019, 2020a, 2020b, and 2021), and meets the requirements promulgated in the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Bowen is a four-unit, coal-fired, electric-generating facility located nine miles southwest of Cartersville in Bartow County, Georgia. The current groundwater monitoring system at AP-1 includes 24 wells associated with the certified CCR compliance monitoring well network and a network of delineation monitoring wells and groundwater level monitoring piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc of Midland, North Carolina under contract with, and the supervision of, Southern Company Services (SCS) Civil Field Services (CFS) personnel. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. CFS personnel oversaw the drilling and installation efforts. Resolute Environmental & Water Resources Consulting was responsible for developing the newly installed wells. A professional geologist employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities.

Wells BGWC-49D and BGWC-50D were completed February and March 2021. The locations of these two wells are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotosonic drilling techniques with continuous core collection. Care was taken so that the drilling methods minimized the disturbance of subsurface materials and did not allow contamination of the groundwater. Drilling equipment was pressure washed between each well.

2.2 Borehole Geophysics

Borehole geophysical logging for both BGWC-49D and BGWC-50D was conducted by GEL Solutions (GEL) of Marietta, Georgia, under the supervision of a Geosyntec geologist. The purpose of the geophysical logging was to characterize and evaluate potential water-bearing bedrock fractures and groundwater flow in the open-hole sections of the boreholes to support decisions on the appropriate screen interval for each bedrock piezometer. The geophysical logging consisted of a combination of:

- Acoustical and optical televiewer;
- Three-arm caliper;
- fluid temperature and fluid conductivity,

- Single point resistance and spontaneous potential; and
- Heat pulse flowmeter.

The geophysical testing report prepared by GEL is provided in **Appendix C**.

2.3 Screened Interval

Details regarding the well screen intervals are provided in **Table 1**. Wells are screened in the uppermost water bearing unit with BGWC-49D screened from approximately 399 to 389 feet (ft) [referenced to the North American Vertical Data of 1988 (NAVD88)] and BGWC-50D screened from 545 to 535 ft. All wells are constructed with 10 feet of well screen.

2.4 Well Casings and Screens

The wells are constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. Each well was installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casings and screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screen was constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. Casing and screens are flush-threaded. Solvent or glue was not used to construct the wells. A 4-inch long threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.5 Well Intake Design

Wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the wells. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.6 Filter Pack

Highly Pure Quartzite of Southern Products & Silica Co. silica sand filter pack was used as the appropriate gradation for all wells. Highly Pure Quartzite meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Filter pack material placed in the annular space outside of the well screen extended approximately 2 to 3 feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, each well was pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.7 Annular Seal

A minimum of two feet of bentonite pellets (PelPlug non-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. Following the hydration period, the bentonite seal was extended, if warranted by the presence of softer geologic material or voids above the filter pack, to at least one foot above the residual soil/bedrock contact observed to prevent bentonite grout from entering the water-bearing or screened zone. The bentonite was installed in lifts of no greater than 75 feet in thickness and hydrated with potable water for a duration meeting or exceeding the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AQUAGUARD bentonite grout placed via tremie pipe from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around each well. The pad is mounded slightly outward to direct surface drainage away from the well.

2.8 Cap and Protective Casing

The well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. Wells are clearly marked with the proper well identification number on the stand-up casing.

3. WELL DEVELOPMENT

The wells were developed in March and April 2021 using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. Wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed. The development forms are included in **Appendix D**.

All equipment and tubing placed in the well was decontaminated or disposed of between wells.

4. SURVEY

Upon completion of the well installation, the horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor March 23, 2021. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at each well pad were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for BGWC-49D and BGWC-50D is provided in **Appendix E**.

5. REFERENCES

- Anchor QEA. 2017. *Ash Pond Monitoring Well Certification Report*, October 2017.
- Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.
- Geosyntec Consultants. 2019. *Ash Pond Monitoring Well Certification Report - Addendum*, June 2019.
- Geosyntec Consultants. 2020a. *Ash Pond Monitoring Well Certification Report – Addendum No. 2*, January 2020.
- Geosyntec Consultants. 2020b. *Ash Pond Monitoring Well Certification Report – Addendum No. 3*, July 2020.
- Geosyntec Consultants. 2021. *Ash Pond Monitoring Well Certification Report – Addendum No. 4*, March 2021.
- United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81, April 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Bowen AP-1, Bartow County, Georgia

Well ID	Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft NAVD88) ⁽²⁾	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft BTOC) ⁽³⁾
BGWC-49D	Vertical Delineation	2/23/21	1499790.13	2066461.96	696.95	699.75	398.95	388.95	311.13
BGWC-50D	Vertical Delineation	3/19/21	1499269.15	2065781.87	714.68	717.43	544.68	534.68	183.09

Notes:

ft BTOC = feet below top of casing.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey completed by GEL Solutions on March 25, 2021.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.

(3) Total well depth accounts for 4-inch sump.

FIGURE

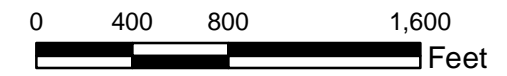
N:\GA Power\Plant Bowen\GIS\MXD\2021\Well Installation Reports\2021.03_BGWC-51_52\Figure 1_WellMap.mxd 3/29/2021 3:05:37 PM



LEGEND

- ⊕ Compliance Monitoring Well
- ⊕ Horizontal Delineation Monitoring Well
- ⊕ Vertical Delineation Monitoring Well
- ⊕ Piezometer

- Notes:
1. All wells and piezometers presented are screened within the weathered fractured bedrock.
 2. Aerial photograph source: Google Earth Pro, November 2019.



GROUNDWATER MONITORING NETWORK MAP

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

MAY 2021

FIGURE 1

APPENDIX A

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

Issued on 9/27/2017
Expires on 6/30/2019
Renewed on 3/4/2019
Expires on 6/30/2021

does hereby continue said bond in force for the further period

beginning on 06/30/2019
(MONTH-DAY-YEAR)

and ending on 06/30/2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium: \$1200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on March 4th, 2019
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

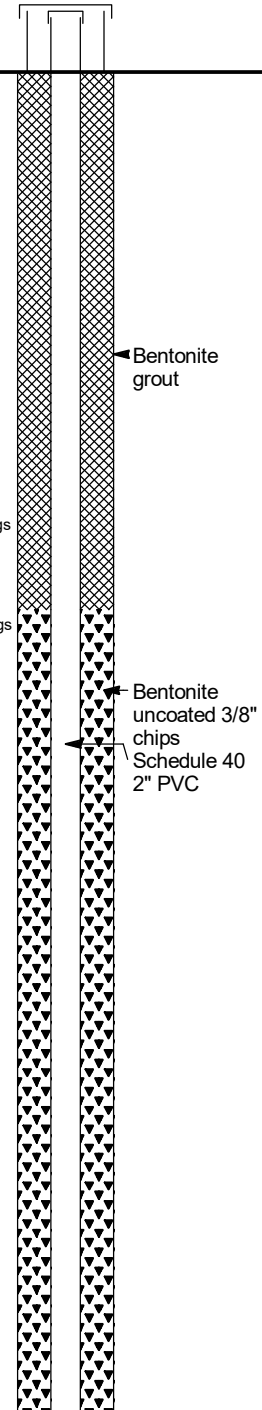
APPENDIX B

Boring and Well Construction Logs

CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Bowen Well Installation</u>
PROJECT NUMBER <u>GW6581C</u>	PROJECT LOCATION <u>Euharlee, GA</u>
DATE STARTED <u>1/23/21</u> COMPLETED <u>2/23/21</u>	NORTHING <u>1499790.13 ft</u> EASTING <u>2066461.96 ft</u>
DRILLER <u>Tom Ardito, Cascade Drilling</u>	GROUND ELEVATION <u>696.95 ft</u> BORING DIAMETER <u>6 in</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>699.75 ft</u>
SAMPLING METHOD <u>4 in core 6 in override</u>	GEOPHYSICAL CONTRACTOR <u>GEL Solutions</u>
RIG TYPE <u>Terrasonic 1051181</u>	LOGGED BY <u>T. Kessler and A. Ramsey</u> CHECKED BY <u>J. Ivanowski</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0		Geophysical logging consisted of acoustic televiwer, optical televiwer, caliper, fluid conductivity, fluid temperature, single point resistance (SPR), spontaneous potential (SP), and heat pulse flowmeter (HPF). Refer to separate report.		Air Knife Excavation (0 to 10 ft) NO SAMPLE	
10				687.0	
20				SILTY CLAY, Brownish yellow with white mottling, medium plasticity, iron oxide staining throughout, with rock fragments, trace sand, firm, moist.	
30				16 ft: Some fine gravel.	
40				30 ft: With highly weathered rock gravel throughout, color changes to brownish yellow.	
50		Increased rig chatter, slower drilling rate, some loss of circulation.		40 to 43 ft: With large, brownish yellow rock fragments.	WL: 35.3 ft bgs (4.5.2021)
60		Rig chatters, no returns.		653.0	WL: 42.1 ft bgs (4.1.2021)
70		From 70 ft: Logger: A. Ramsey		DOLomite, Gray, fine to medium grained, with some fractures, and visible iron oxide staining at 44 ft, with white calcite veins at 44 ft and 45 ft, weak reaction with HCL.	
80				50 ft: White calcite veins throughout.	
90				58 ft: Light gray, with iron oxide staining and moderately weathered.	
100				60 ft: Medium to coarse grained, friable.	
				70 ft: Gray with some dark gray, fine to medium grained, visible iron staining at 71 ft, calcite veins throughout, massive.	
				80 ft: Some iron oxide staining throughout, fracture at 80 ft.	
				90 ft: Trace calcite fillings, some iron oxide staining, fractured at 96 ft, massive.	

ASHWINS LOG BGWC-49D AND BGWC-50D MARCH 2021.GPJ ACP GINT LIBRARY CH.GLB 5/5/21



(Continued Next Page)

CLIENT Southern Company Services **PROJECT NAME** Plant Bowen Well Installation
PROJECT NUMBER GW6581C **PROJECT LOCATION** Euharlee, GA

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
100				DOLomite, Gray, fine to medium grained, with some fractures, and visible iron oxide staining at 44 ft, with white calcite veins at 44 ft and 45 ft, weak reaction with HCL. (continued)	
110		112 ft: Fracture.			
120				571.0	
130				NO RECOVERY (VOID 126 to 131 ft) Driller reports no resistance during drop	
				566.0	
140		140 to 150 ft: 3 ft recovery, voides reported by the driller.		DOLomite, Gray, trace calcite fillings and iron oxide staining, massive.	
150		140 ft: Thin laminations, with some voids.			
160		150 ft: Some iron oxide staining.			
170				514.0	
180				NO RECOVERY (VOID 183 to 192 ft) Driller reports no resistance during drop.	
190				505.0	
200				DOLomite, Gray, trace calcite fillings and iron oxide staining, massive.	
210					
				493.0 492.0	
				NO RECOVERY (VOID 204 to 205 ft) Driller reports no resistance during drop.	
				DOLomite, Gray, abundance of calcite fillings up to 1 inch thick and significant iron oxide staining, increasing with depth.	

ASHWINS LOG BGWC-49D AND BGWC-50D MARCH 2021.GPJ ACP GINT LIBRARY CH.GLB 5/5/21

CLIENT Southern Company Services

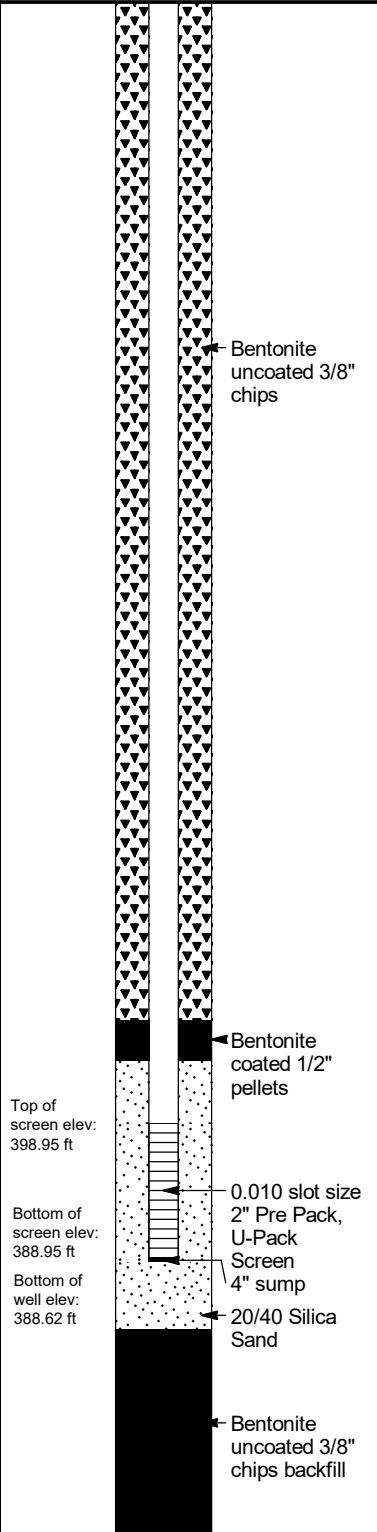
PROJECT NAME Plant Bowen Well Installation

PROJECT NUMBER GW6581C

PROJECT LOCATION Euharlee, GA

DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
220				NO RECOVERY (VOID 215 to 225 ft) Driller reports no resistance during drop.	
230				DOLomite, Dark gray and white, partially weathered, fine to medium grained, thinly laminated, abundant iron oxide staining. 230 ft: Trace iron oxide staining, unweathered to fresh. 234 to 240 ft: Trace iron oxide staining and calcite filling.	
240					
250					
260		260 ft: Very slow drilling (10 ft in 50 min)		260 ft: Fine to medium grained, massive.	
270				270 ft: With some calcite filled veins.	
280					
290					
300				297 ft: Trace fractures visible with iron oxide staining from 302 to 307 ft.	
310				307 ft: With some iron oxide staining. 310 ft: Abundant calcite filled fractures.	
320				DOLomite, Gray, fine to medium grained, massive, with some calcite filled veins and abundant fractures with visible iron oxide staining.	

ASHWINS LOG BGWC-49D AND BGWC-50D MARCH 2021.GPJ ACP GINT LIBRARY CH.GLB 5/5/21



CLIENT Southern Company Services **PROJECT NAME** Plant Bowen Well Installation

PROJECT NUMBER GW6581C **PROJECT LOCATION** Euharlee, GA

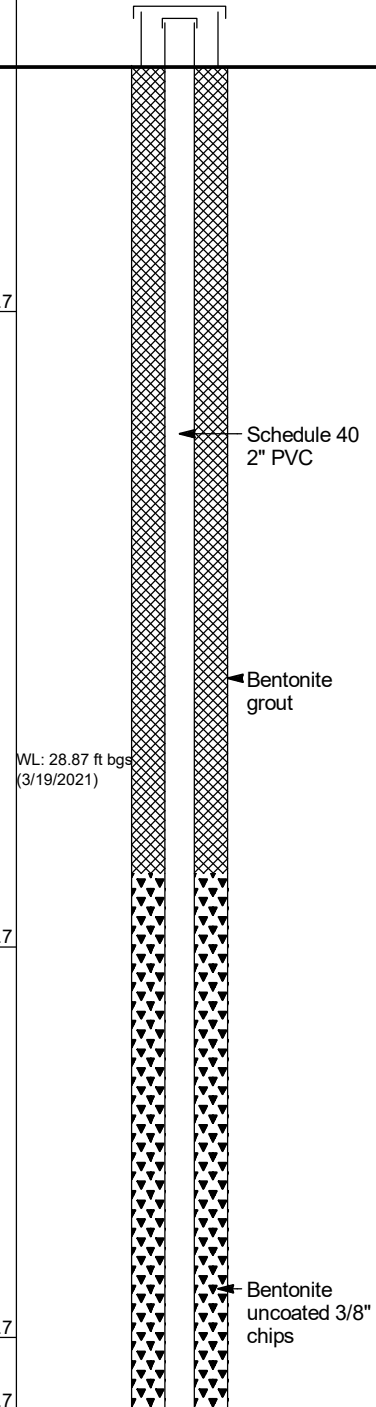
DEPTH (ft)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
330				DOLomite, Gray, fine to medium grained, massive, with some calcite filled veins and abundant fractures with visible iron oxide staining. <i>(continued)</i>	
340		342 ft: Significant calcite filled fractures.			
350		352 ft: Dark gray, fine to medium grained, thinly laminated to massive, calcite filled veins throughout, abundant iron oxide staining.			
360		Drill cuttings settled in open hole after pumping/flushing of borehole.			
370					
380					
				315.0	

Bottom of borehole at 382.0 feet.

CLIENT Southern Company Services	PROJECT NAME Plant Bowen Well Installation
PROJECT NUMBER GW6581C	PROJECT LOCATION Euharlee, GA
DATE STARTED 3/2/21 COMPLETED 3/19/21	NORTHING 1499269.15 ft EASTING 2065781.87 ft
DRILLER Donald Hall, Cascade Drilling	GROUND ELEVATION 714.67 ft BORING DIAMETER 6 in
DRILLING METHOD Sonic	TOP OF CASING ELEVATION 717.43 ft
SAMPLING METHOD 4 in core 6 in override	GEOPHYSICAL CONTRACTOR GEL Solutions
RIG TYPE Pro Sonic 150 Full Size	LOGGED BY C. Cain CHECKED BY J. Ivanowski

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0		Geophysical logging consisted of acoustic televiwer, caliper, fluid conductivity, fluid temperature, single point resistance (SPR), spontaneous potential (SP), and heat pulse flowmeter (HPF). Refer to separate report.		Air Knife Excavation (0 to 10 ft) NO SAMPLE	
710					
10	704.7			SILTY CLAY, Yellowish brown, medium plasticity, some iron oxide staining throughout, with gravel sized rock fragments throughout and few sand, moist.	
700					
20				25 ft: Layer of coarse gravel with yellowish brown sand.	
690				30 ft: Increased iron oxide staining, some mottling, few gravel.	
30				35 ft: Dark gray gravel layer (8 inch thick), comprised of angular rock fragments.	
680	678.7			DOLOMITE, Gray, fine to medium grained, small veins of calcite.	
40				45 ft: Visible iron oxide staining.	
670				47 ft: Light gray, with calcite veins throughout, some iron oxide staining.	
50	662.7	52-55 ft: Driller reports dropping rods, no resistance.		NO RECOVERY (VOID 52 to 55 ft)	
660	659.7				

SCS MONITORING WELLS BGWC-49D AND BGWC-50D_MARCH 2021.GPJ_ACP GINT LIBRARY CH:GLB 4/21/21



(Continued Next Page)

CLIENT Southern Company Services **PROJECT NAME** Plant Bowen Well Installation

PROJECT NUMBER GW6581C **PROJECT LOCATION** Euharlee, GA

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
60				DOLomite, Dark gray, fine to medium grained, with calcite filled veins and occasional calcite crystals throughout, with heavy iron oxide staining, becoming lighter gray with depth.	
65		66 ft: Slow drilling, heavy rig chatter, no water returns.			
70				75 ft: Heavy iron oxide staining, some calcite filled veins.	
64					
80				80 to 82 ft: Heavy iron oxide staining, some large calcite filled veins.	
63				86 to 88 ft: Little iron oxide staining, small calcite filled veins.	
90		89-90 ft: Driller reports dropping rods, no returns.		NO RECOVERY (VOID 89 to 90 ft)	
					625.7
				DOLomite, Light gray, fine to medium grained, with calcite filled veins, massive, wet.	624.7
62		96 ft: Very soft zone.			
100					
61		103 ft: Very soft drilling, no water returns.			
		106 to 136 ft: No water returns.		103 to 106 ft: Iron oxide staining.	
110		110 ft: No water returns.		110 to 116 ft: Light gray, few minor areas of iron oxide staining, small calcite filled veins throughout.	
60				116 and 121 ft: Iron oxide staining.	

SCS MONITORING WELLS BGWC-49D AND BGWC-50D, MARCH 2021.GPJ ACP GINT LIBRARY CH.GLB 4/21/21

Bentonite uncoated 3/8" chips

Bentonite uncoated 3/8" chips

CLIENT Southern Company Services

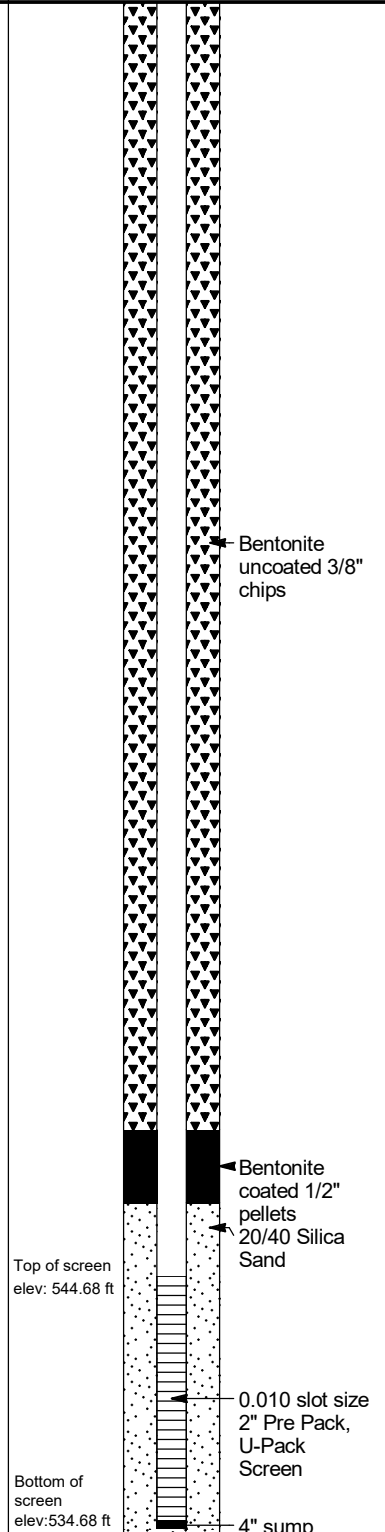
PROJECT NAME Plant Bowen Well Installation

PROJECT NUMBER GW6581C

PROJECT LOCATION Euharlee, GA

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
120				DOLOMITE, Light gray, fine to medium grained, with calcite filled veins, massive, wet. (continued) 119 ft: Larger calcite crystals.	
590					
130				128 to 131 ft: Heavy iron oxide staining.	
580		136 ft: Water returns, slow drilling.		136 ft: Large calcite veins, little iron oxide staining.	
140					
570		146 ft: Very slow drilling.		146 ft: Iron oxide staining	
150					
560		156 ft: Heavy rig chatter.		154 ft: Iron oxide staining.	
160					
550					
170					
540		176 ft: Slow drilling.			
180					

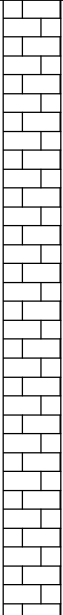
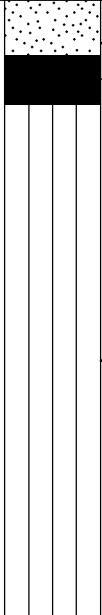
SCS MONITORING WELLS BGWC-49D AND BGWC-50D_MARCH 2021.GPJ_ACP GINT LIBRARY CH:GLB 4/21/21



(Continued Next Page)

CLIENT Southern Company Services **PROJECT NAME** Plant Bowen Well Installation

PROJECT NUMBER GW6581C **PROJECT LOCATION** Euharlee, GA

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
<p>530</p> <p>190</p> <p>520</p> <p>200</p> <p>510</p>				<p>DOLomite, Light gray, fine to medium grained, with calcite filled veins, massive, wet. <i>(continued)</i></p> <p>190 to 193 ft: Fine grained, calcite throughout, with iron oxide staining.</p> <p>196 ft: Minor iron oxide staining throughout.</p> <p>508.7</p>	<p>Bottom of well elev: 534.35 ft</p>  <p>Bentonite uncoated 3/8" chips backfill</p> <p>Natural backfill/drill cuttings</p>

Bottom of borehole at 206.0 feet.

APPENDIX C

Geophysical Logging Report

Geophysical Logging Report

BGWC-49D and BGWC-50D

Georgia Power Plant Bowen, Cartersville, Georgia

Performed for:

Geosyntec

March 29, 2021

**Geophysical Logging Report: BGWC-49D and BGWC-50D
Georgia Power Plant Bowen, Cartersville, Georgia**

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Appendices

Appendix 1	Fracture Summary Table
Appendix 2	Schmidt Stereonets and Rose Diagrams
Appendix 3	Geophysical Logs
Appendix 4	Logs and Fracture Characteristics

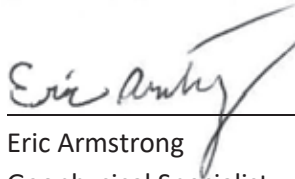
SIGNATURE PAGE

This report, entitled "Geophysical Logging Report: BGWC-49D and BGWC-50D, Georgia Power Plant Bowen, Cartersville, Georgia" has been prepared for Geosyntec located in Kennesaw, Georgia. It has been prepared under the supervision of Mr. Jorgen Bergstrom at the request of and the exclusive use of Geosyntec. This report has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned.

GEL Solutions, LLC
A Member of the GEL Group, Inc.



Jorgen Bergstrom, P.Gp.
Senior Geophysicist



Eric Armstrong
Geophysical Specialist

March 29, 2021

Date

EXECUTIVE SUMMARY

GEL Solutions performed geophysical borehole logging services in 2 borings located at a Georgia Power's Plant Bowen in Cartersville, Georgia. The field investigation was performed between February 3, 2021 and March 5, 2021 during three separate mobilizations. This investigation was conducted to aid Geosyntec in evaluating potential pathways for groundwater migration through bedrock at the site. The geophysical logs consisted of acoustic televiewer, optical televiewer, caliper, fluid conductivity, fluid temperature, single point resistance (SPR), spontaneous potential (SP), and heat pulse flowmeter (HPF). There were two rounds of drilling for BGWC-49D. Logging of BGWC-49D was conducted after reaching 230.8 feet (Top), and then again after reaching 378.5 feet (Bottom).

The logging data was analyzed to determine the location and orientation of fractures; and other features. In addition to these data sets, synthetic caliper logs were calculated from the acoustic televiewer travel time data to aid in the interpretation. Dip and azimuth (dip direction) were calculated for each detected fracture based on the televiewer dataset. HPF data was analyzed to detect water producing fractures.

1.0 INTRODUCTION

GEL Solutions performed geophysical borehole logging services in 2 borings located at Georgia Power's Plant Bowen located in Cartersville, Georgia. The geophysical logs consisted of acoustic and optical televiewer, 3-arm caliper, fluid conductivity, fluid temperature, single point resistance (SPR), spontaneous potential (SP), and heat pulse flowmeter (HPF). The field investigation was performed between February 3, 2021 and March 5, 2021. The logging data was analyzed to determine the location and orientation of fractures and other features. In addition to these data sets, synthetic caliper logs were calculated from the acoustic televiewer travel time data to aid in the interpretation.

2.0 EQUIPMENT AND METHODOLOGY

The information below is an overview of the geophysical methodologies used for this investigation. The intent of this overview is to give the reader a better understanding of each method, and background information as to what is actually measured, the resolution of the method, and the limitations imposed by site-specific subsurface conditions.

2.1 Acoustic Televiewer

Acoustic televiewer (ATV) logging produces a high resolution, magnetically oriented digital image of the borehole wall to map the location and orientation of intersecting fractures, foliations, and lithologic contacts. The Acoustic televiewer tool emits a rotating, narrow, acoustic beam that is reflected off the borehole wall. The travel time and amplitude of the reflected wave are recorded by the tool and used to create borehole images. Both datasets are useful for identifying the location and orientation of fractures. The amplitude of the reflected signal will decrease at the location of fractures and the travel time will increase. The travel time data can also be used for developing a high resolution caliper log for a more comprehensive analysis of fractures. Acoustic televiewers can only be used in fluid filled boreholes. However, the fluid does not have to be optically clear for the method to work.

When operating the ATV, a "time window" is set based on the borehole diameter. The time window is the time interval in which the ATV instrument searches for an echo from the borehole wall. For smaller increases in borehole diameter around fractures and sections of weaker rock, the ATV typically records an accurate borehole diameter (correlates well with three-arm caliper data). However, if borehole openings are

much larger than the borehole diameter, the echo from the borehole wall may fall outside the time window, or be too weak to be detected. In these situations, borehole diameters recorded with ATV may be inaccurate. Since ATV only records the reflection from the borehole wall, the data cannot be used to determine how far a fracture extends from the borehole. The acoustic televiewer has a vertical resolution of 2 millimeters.

2.2 Optical Televiewer

Optical televiewer (OTV) logging is used to record and digitize a 360-degree color image of the borehole wall. Planar features such as fractures, foliation, and lithologic contacts can be identified directly on the images. The tool is magnetically oriented in order to determine the strike and dip of features. Televiewers have a vertical resolution of 2mm. As a result, it is able to see features other tools may not resolve. Optical images can be collected above or below the water surface, provided the water is sufficiently clear for viewing the borehole wall.

2.3 3-Arm Caliper

Caliper logging is used to generate a profile of the borehole diameter with depth. The tool measures the borehole diameter using three spring-loaded arms. Narrow enlargements in the borehole diameter can, in most cases, be attributed to fractures. Caliper logging can be conducted above and below the water surface.

2.4 Fluid Temperature

Fluid temperature logging is used to identify where water enters or exits the borehole. In the absence of fluid flow, a gradual increase on water temperature of approximately 1°F per 100 feet of depth is expected. Rapid changes in the fluid temperature indicate water-producing or water-receiving zones. Little or no temperature gradient indicates intervals of vertical flow.

2.5 Fluid Conductivity

Fluid conductivity logging is used to measure the electrical conductivity of the fluid in the borehole. Variations in fluid conductivity can be contributed to concentration variations of dissolved solids. These differences can occur when sources of water have contrasting chemistry and have come from different transmissive zones. Fluid temperature and conductivity are measured concurrently using the same logging tool.

2.6 Single Point Resistance (SPR)

Single point resistance logging involves passing an alternate current between a surface electrode and a probe electrode and measuring the voltage difference created by the current. SPR is then calculated using Ohm's law. SPR is the sum of cable resistance, and the resistance based on the composition of the medium, the cross sectional area and length of the path through the medium. Therefore, the single point resistance log does not provide quantitative data. In general, SPR increases with increasing grain size and decreases with increasing borehole diameter, fracture density, and the concentration of dissolved solids in the water. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones

2.7 Spontaneous Potential (SP)

SP logging is conducted to measure naturally occurring voltage differences along a borehole. The method has been found useful for delineating sandstone/shale layering and other boundaries between permeable and impermeable beds. The measurements are made with reference to an electrode at ground level. Therefore, SP logging does not provide quantitative data.

2.8 Heat Pulse Flowmeter (HPF)

HPF logging measures the direction and rate of vertical fluid flow in a borehole by heating up a small volume of water and monitoring temperature variations as the heated water moves with the fluid flow in the borehole. Under ambient conditions, differences in hydraulic head between two transmissive fractures produce vertical flow in the borehole. However, if the hydraulic head is the same, no flow will occur under ambient conditions. Therefore, HPF logging is also conducted under low-rate pumping conditions. HPF readings are point readings at the location of fractures. The location and number of these readings can be determined after analyzing the other geophysical logs for fractures. HPF can be used for measuring vertical flows between 0.005 gallons per minute (gpm) and approximately 1.5 gpm. In HPF data, upward flow is shown as positive flow, and downward flow is shown as negative flow.

3.0 FIELD PROCEDURES

All GEL Solutions activities on this project were supervised by a senior geophysicist. For this investigation, GEL Solutions used a Mount Sopris Matrix logging system. Pumping tests during HPF testing were conducted using a Grundfos Redi-Flow-2 water pump with variable speed control box and an in-situ Mini-Troll pressure transducer with logging capabilities. The pump is placed above the interval to be analyzed and preferably in the

casing (unless the water level is too low). HPF logging under pumping conditions (when conducted) commenced after the borehole water level had stabilized. HPF logging was conducted at every 5 feet throughout the logging intervals under ambient and pumping conditions. More closely spaced readings were then conducted at sections with abrupt changes in flow. Logging of BGWC-49D was conducted after reaching 230.8 feet (Top), and then again after lowering the surface casing and reaching 378.5 feet (Bottom). A summary of the configuration of the boreholes, pumping rates, and water levels is provided below. All depth measurements are referenced from the ground surface. All borings are surface cased and open hole below the casing.

Logging Configuration Summary

Well ID:	BGWC-49D (Top)	BGWC-49D (Bottom)	BGWC-50D
Casing Material:	Steel	Steel	Steel
Casing Diameter (in):	5.5	5.5	5.5
Open Hole (ft):	168.5-230.8	235.5-378.5	38.3-191.0
Open Hole Diameter (in):	6.2	6.2	6.2
Ambient Groundwater Level (ft):	21.7	18.4	36.9
Pump Depth (ft):	N/A	45	50
Pump Rate (Gallon per Minute):	N/A	0.6	1.6
Groundwater Level While Pumping (ft):	N/A	30.4	37.9

4.0 DATA PROCESSING AND RESULTS

The logs were analyzed for fractures and other features using WellCAD software, manufactured by Advanced Logic Technology. The travel time data from the acoustic televiewer log was used to develop a maximum caliper log. Fractures were interpreted through a complete data analysis of all logs. Dip and azimuth (dip direction) and aperture were calculated for each detected fracture. The fracture data was corrected from apparent to true dip and azimuth using deviation logs included with the televiewer dataset. The reported azimuth is measured clockwise from magnetic north (Figure 1). A fracture summary table including fracture attributes is provided in Appendix 1. Major fractures are shown in bold.

Schmidt stereonet (lower hemisphere) with fracture characteristics and fracture rose diagrams are presented on Appendix 2. All logs are presented in 1:20 scale on Appendix 3. Select logs and fracture characteristics are shown with more compressed vertical scale on Appendix 4. All depths are referenced from ground surface.

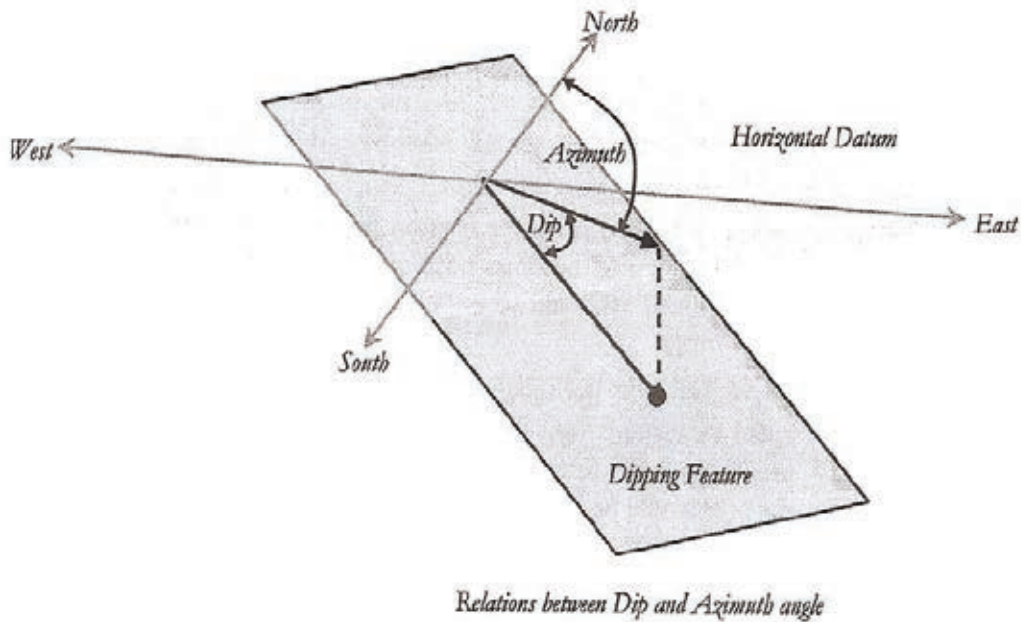


Figure 1: Explanation of azimuth and dip for fractures

APPENDIX 1

Fracture Summary Table
Plant Bowen, Cartersville, GA

BGWC-49D_Top

Depth ft	Azimuth deg	Dip deg	Aperture mm
172.4	3	7	104
176.2	34	7	921
181.2	240	76	18
183.4	57	23	725
186.3	193	29	1058
190.5	83	52	1283
196.2	218	9	353
197.6	108	17	262
198.0	276	58	265
205.5	48	29	1186
210.2	341	18	61
211.8	262	17	139
223.0	126	13	2172

BGWC-49D_Bottom

Depth ft	Azimuth deg	Dip deg	Aperture mm
243.4	52	7	11
248.9	136	9	10
254.0	123	7	1
255.9	13	6	9
259.6	91	14	19
260.8	137	82	2
260.9	247	73	4
263.1	47	4	1
264.5	65	4	4
265.6	22	3	4
266.6	20	4	1
267.8	101	2	1
268.3	135	9	33
283.8	57	88	2
285.1	37	34	1
285.9	12	9	1
288.0	17	6	1
292.5	143	9	1
295.7	62	5	24
299.1	91	3	26
302.2	201	50	4
303.9	89	9	22
304.2	313	82	1
309.4	119	4	10
310.8	55	7	1
315.4	92	3	1
316.7	159	10	23
326.0	5	10	1
330.0	211	10	15
330.3	150	67	1
330.9	139	74	12
331.7	216	83	3
334.2	42	4	1
336.9	26	13	1
345.0	184	65	3
345.7	178	54	1
346.3	179	77	5
349.6	47	4	1
353.5	34	5	1
355.8	116	4	1
356.5	142	11	1
360.6	13	59	1
360.8	160	56	1

Dominating water producing fractures are highlighted and shown in bold italicized text. Minor water producing fractures are shown in bold text. Closed fractures are shown in plain text.

Fracture Summary Table
Plant Bowen, Cartersville, GA

BGWC-49D_Bottom

Depth ft	Azimuth deg	Dip deg	Aperture mm
361.2	2	57	1
362.2	69	6	1
364.7	161	78	1
364.7	216	69	1
372.2	200	55	12
374.4	102	6	19
374.8	82	5	10
376.3	35	13	1
376.5	27	13	1

BGWC-50D

Depth ft	Azimuth deg	Dip deg	Aperture mm
39.0	149	69	4
40.4	156	70	1
42.0	210	11	24
42.0	164	78	1
43.9	347	37	6
44.1	122	58	1
44.6	34	11	1
44.7	13	16	1
46.6	124	14	1
47.9	360	25	29
48.3	194	84	1
49.3	176	16	1
49.3	309	1	1
49.7	3	22	1
50.9	360	85	1
50.9	4	15	1
50.9	205	85	1
51.7	360	85	1
52.4	310	1	1
53.7	311	1	410
56.1	110	58	1
57.0	117	70	1
57.3	81	34	1
57.4	101	42	1
63.1	185	71	1
64.3	139	76	1
65.3	312	1	1
66.3	168	75	1
69.7	52	6	1
71.5	83	5	1
73.6	241	88	2
73.8	35	6	1
74.8	314	1	14
77.0	167	81	29
81.7	98	77	1
83.9	343	4	10
84.9	180	72	1
85.5	157	76	1
85.6	355	10	15
87.2	171	78	1
87.3	164	75	1
90.0	8	1	197
97.9	74	10	86

Dominating water producing fractures are highlighted and shown in bold italicized text. Minor water producing fractures are shown in bold text. Closed fractures are shown in plain text.

Fracture Summary Table
Plant Bowen, Cartersville, GA

BGWC-50D

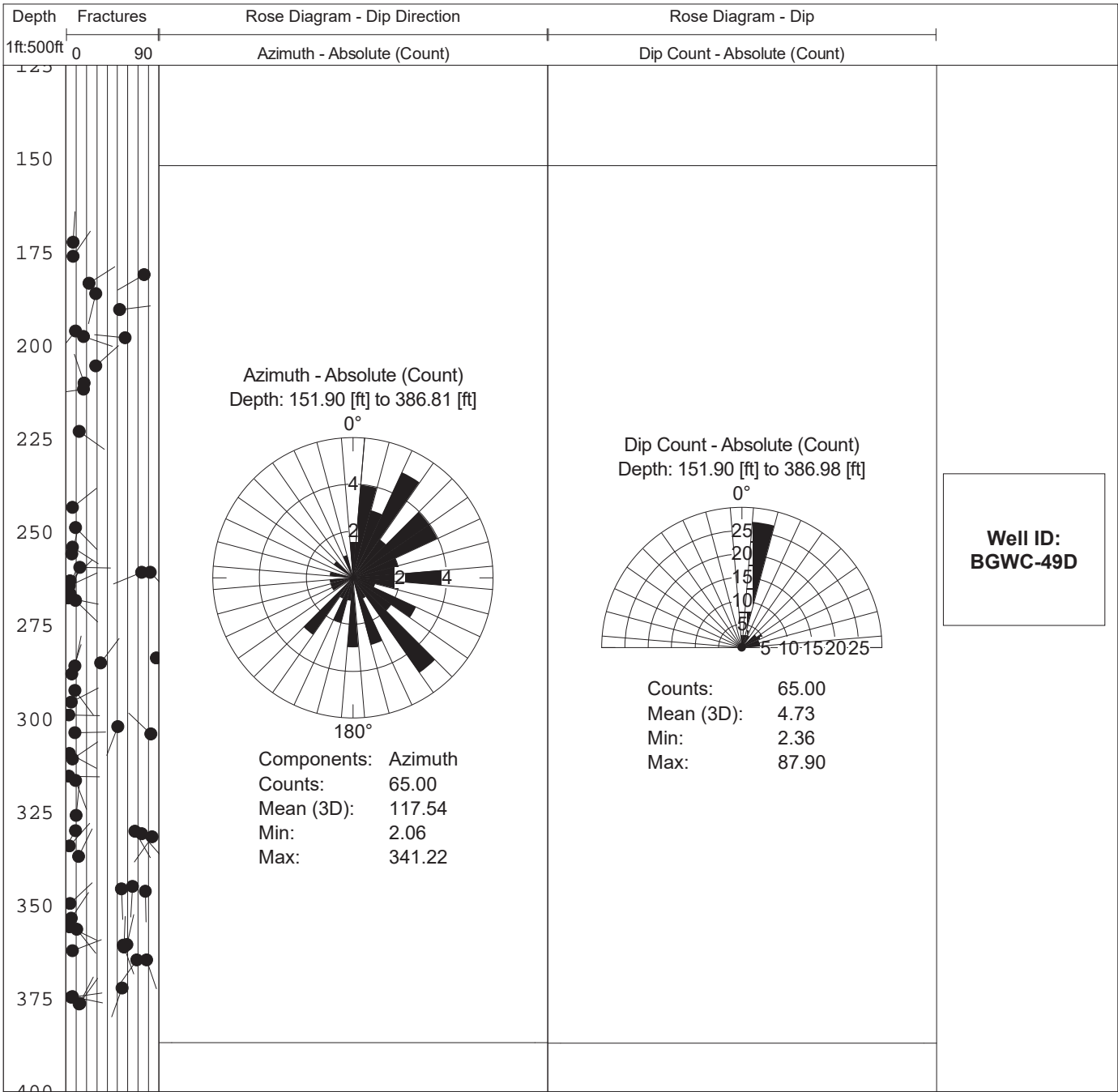
Depth ft	Azimuth deg	Dip deg	Aperture mm
99.0	309	1	8
<i>103.1</i>	<i>184</i>	<i>80</i>	<i>48</i>
<i>103.3</i>	<i>357</i>	<i>79</i>	<i>50</i>
106.1	223	7	2
107.5	20	86	5
108.0	300	1	6
110.5	299	1	29
112.8	155	34	8
114.4	14	28	1
115.0	12	18	1
116.8	23	13	1
119.1	176	58	1
121.4	110	51	8
124.0	16	15	1
124.3	254	47	5
125.5	16	26	1
126.6	93	35	1
128.0	58	18	1
128.4	45	62	2
129.3	3	8	46
133.4	31	16	6
136.3	331	8	8
137.9	172	83	1
138.0	303	2	26
138.5	354	8	14
141.7	351	9	19
143.2	16	82	2
143.6	305	2	18
144.1	302	2	2
144.6	306	2	20
145.0	304	2	1
145.7	234	60	4
148.2	331	3	1
148.4	170	59	1
149.3	182	67	1
149.6	329	3	4
150.8	177	70	1
<i>151.5</i>	<i>308</i>	<i>2</i>	<i>25</i>
152.1	303	2	1
158.0	305	2	1
158.1	306	2	1
161.5	132	35	3
162.4	149	72	1

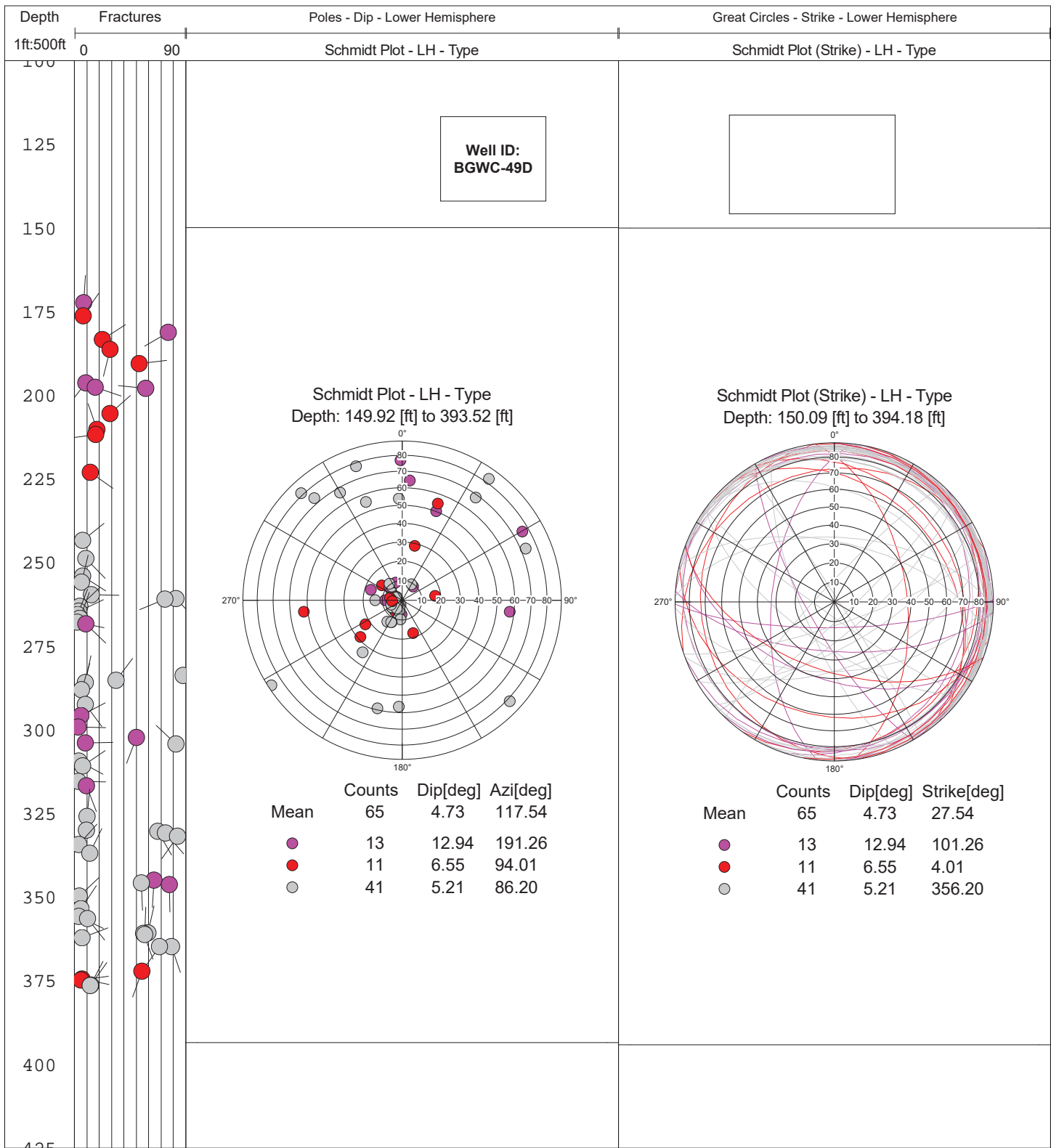
BGWC-50D

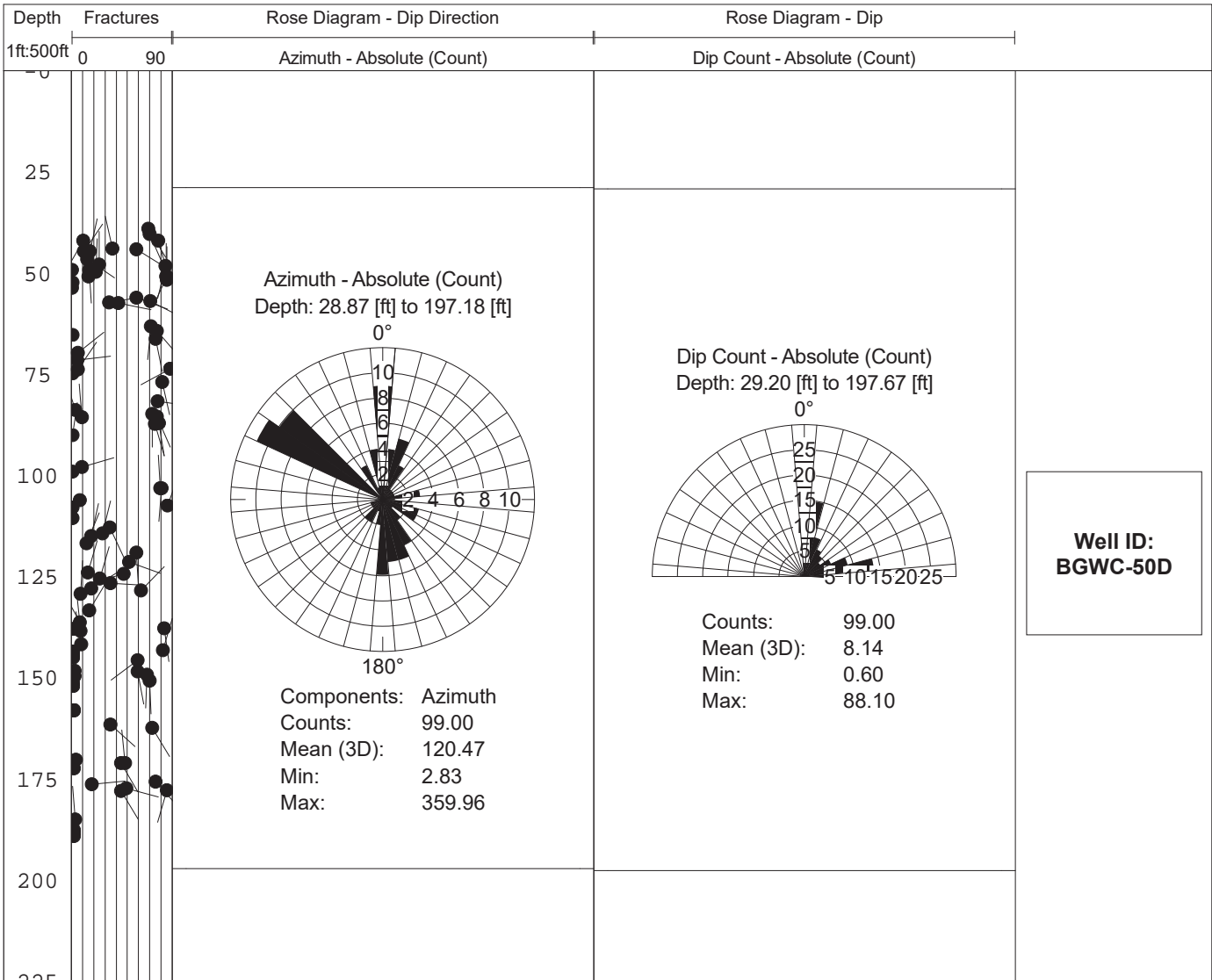
Depth ft	Azimuth deg	Dip deg	Aperture mm
170.3	219	4	27
171.0	354	48	16
171.2	150	45	11
172.4	297	2	20
175.6	138	75	1
176.4	84	18	9
177.3	105	49	4
177.9	196	85	1
177.9	149	44	11
185.0	355	4	8
187.6	302	3	12
188.4	300	3	10
189.1	301	3	45

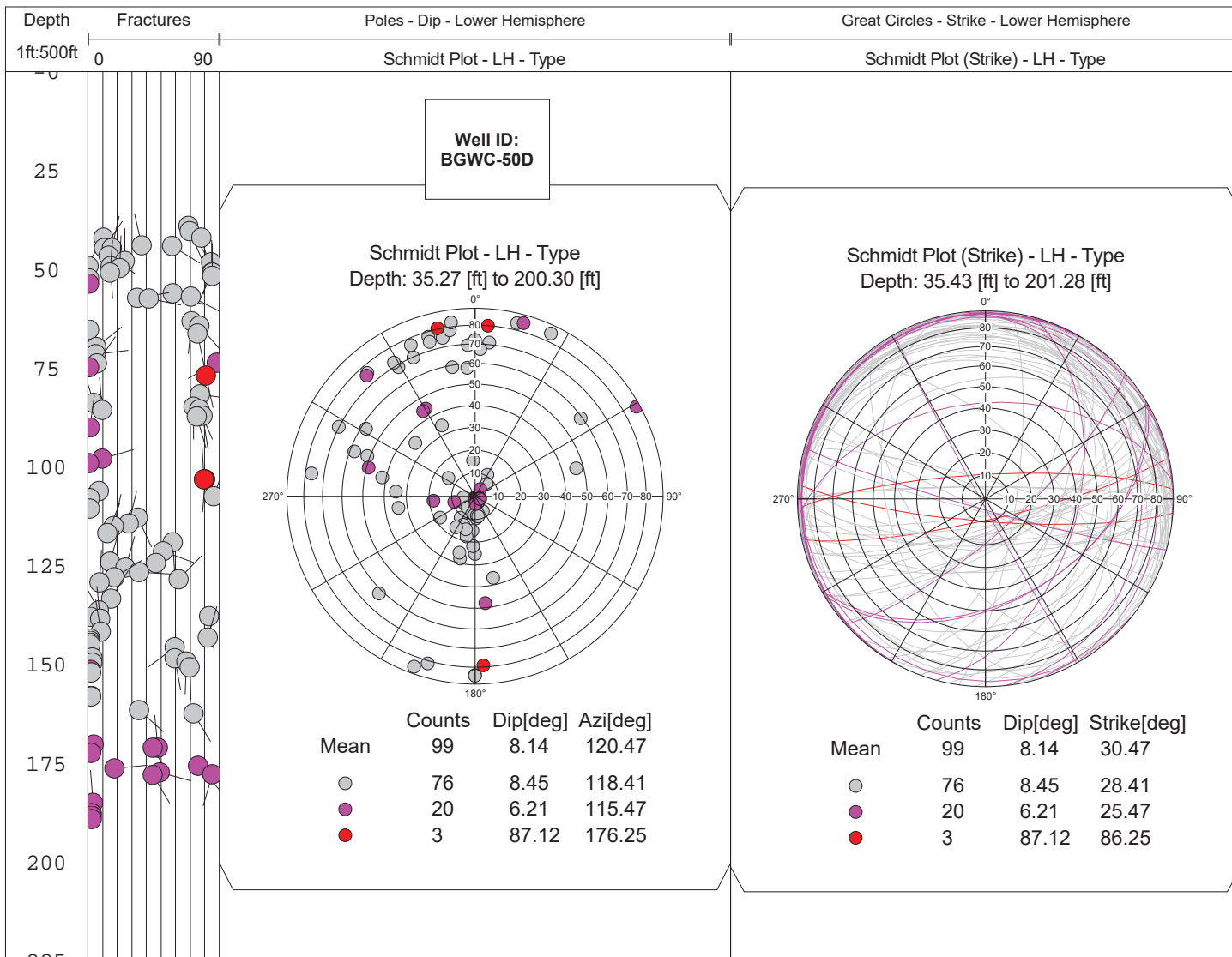
Dominating water producing fractures are highlighted and shown in bold italicized text. Minor water producing fractures are shown in bold text. Closed fractures are shown in plain text.

APPENDIX 2

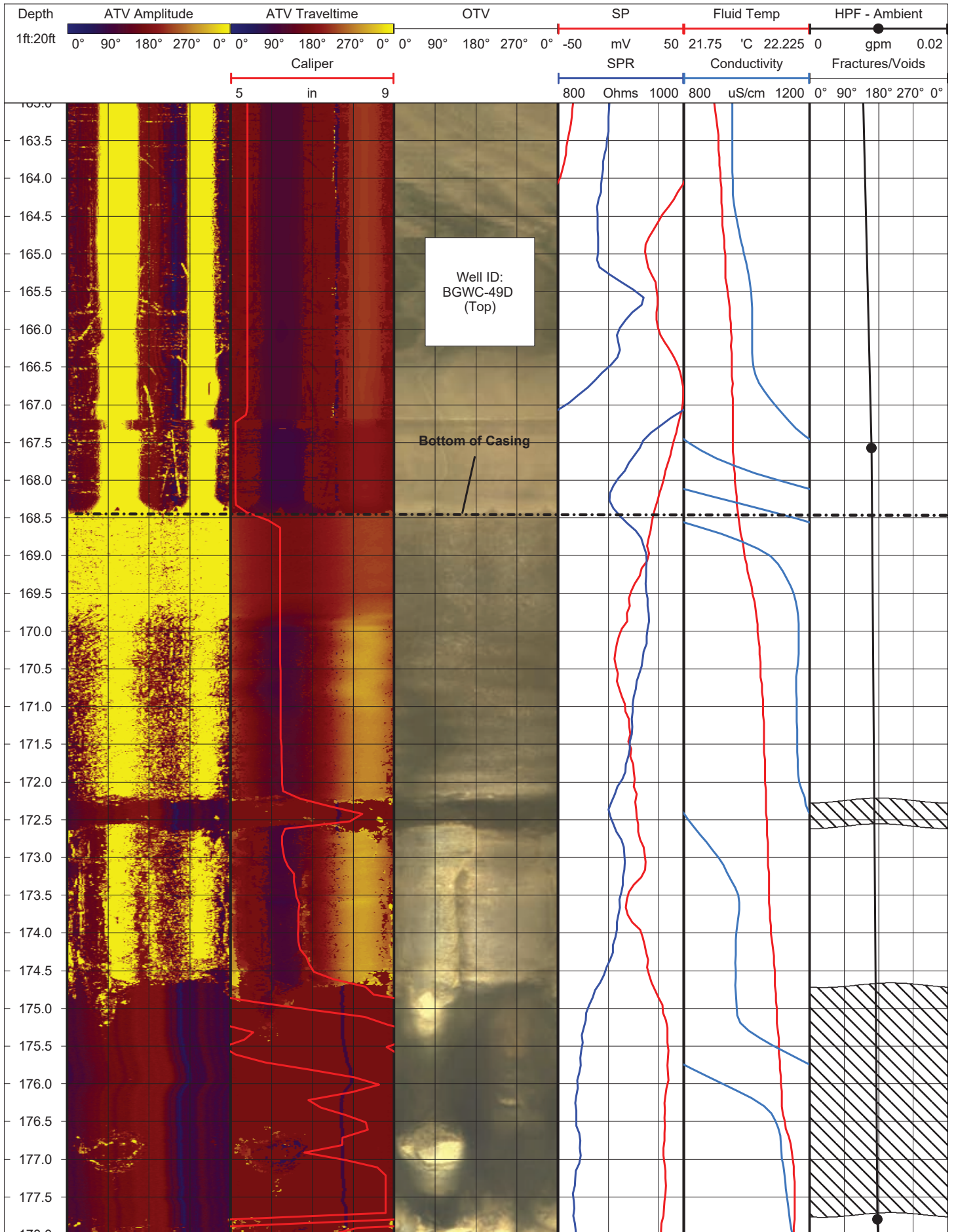


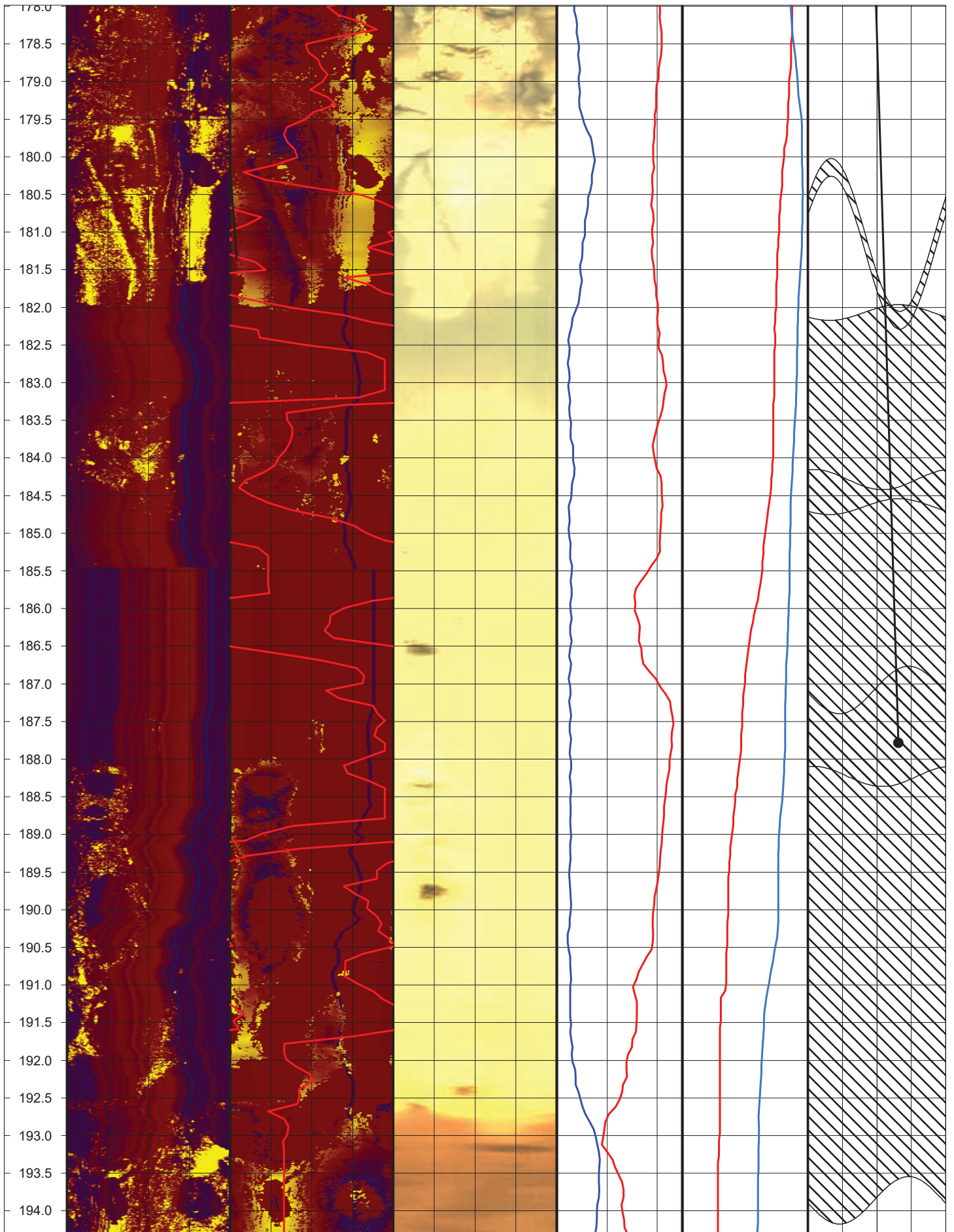


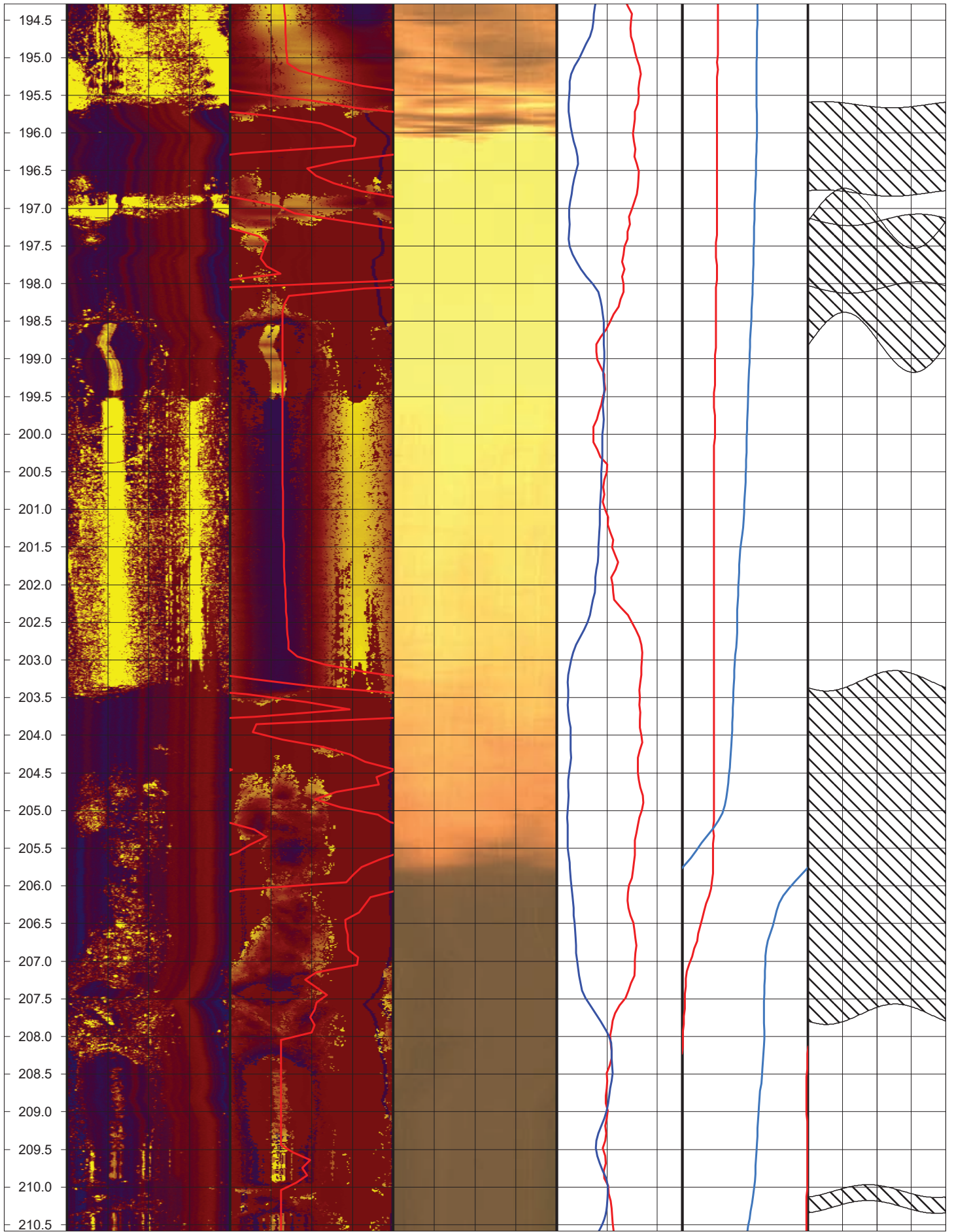


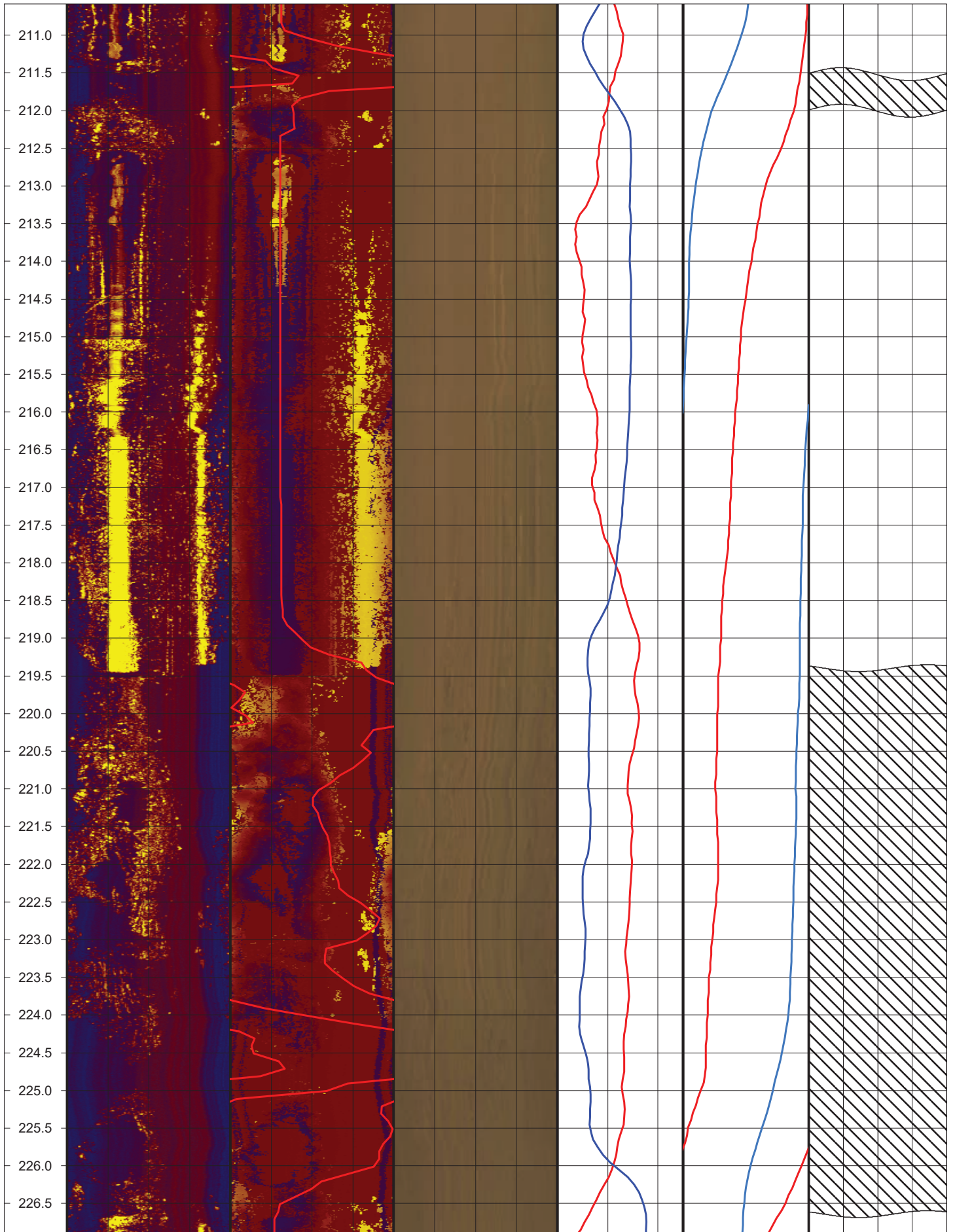


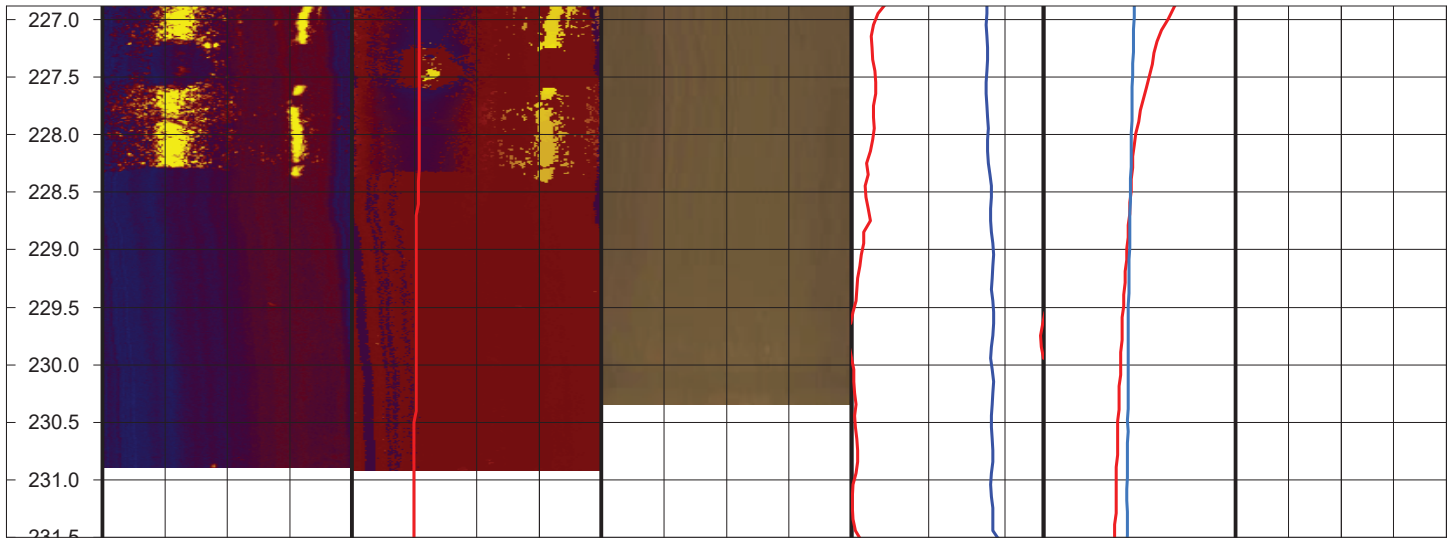
APPENDIX 3

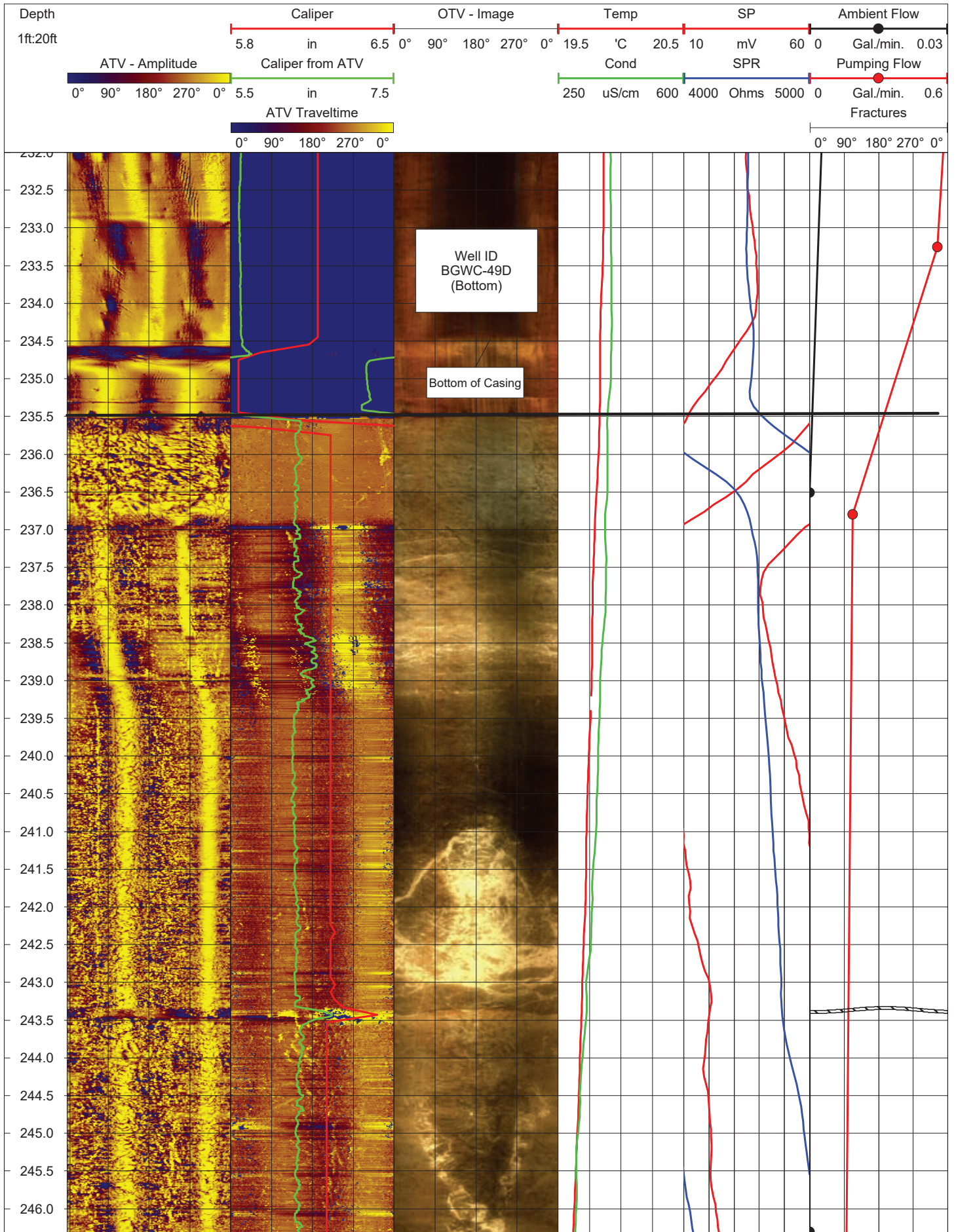


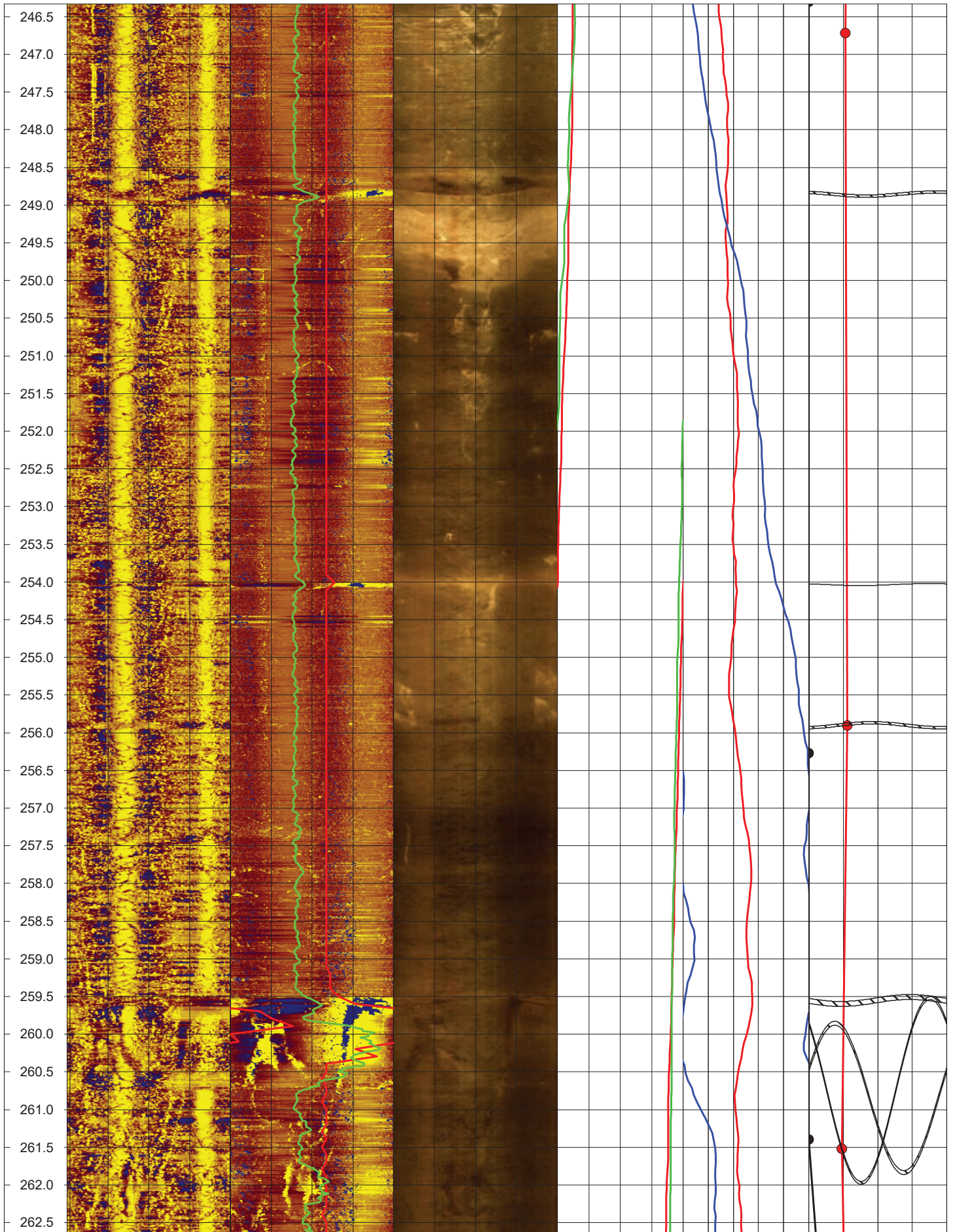


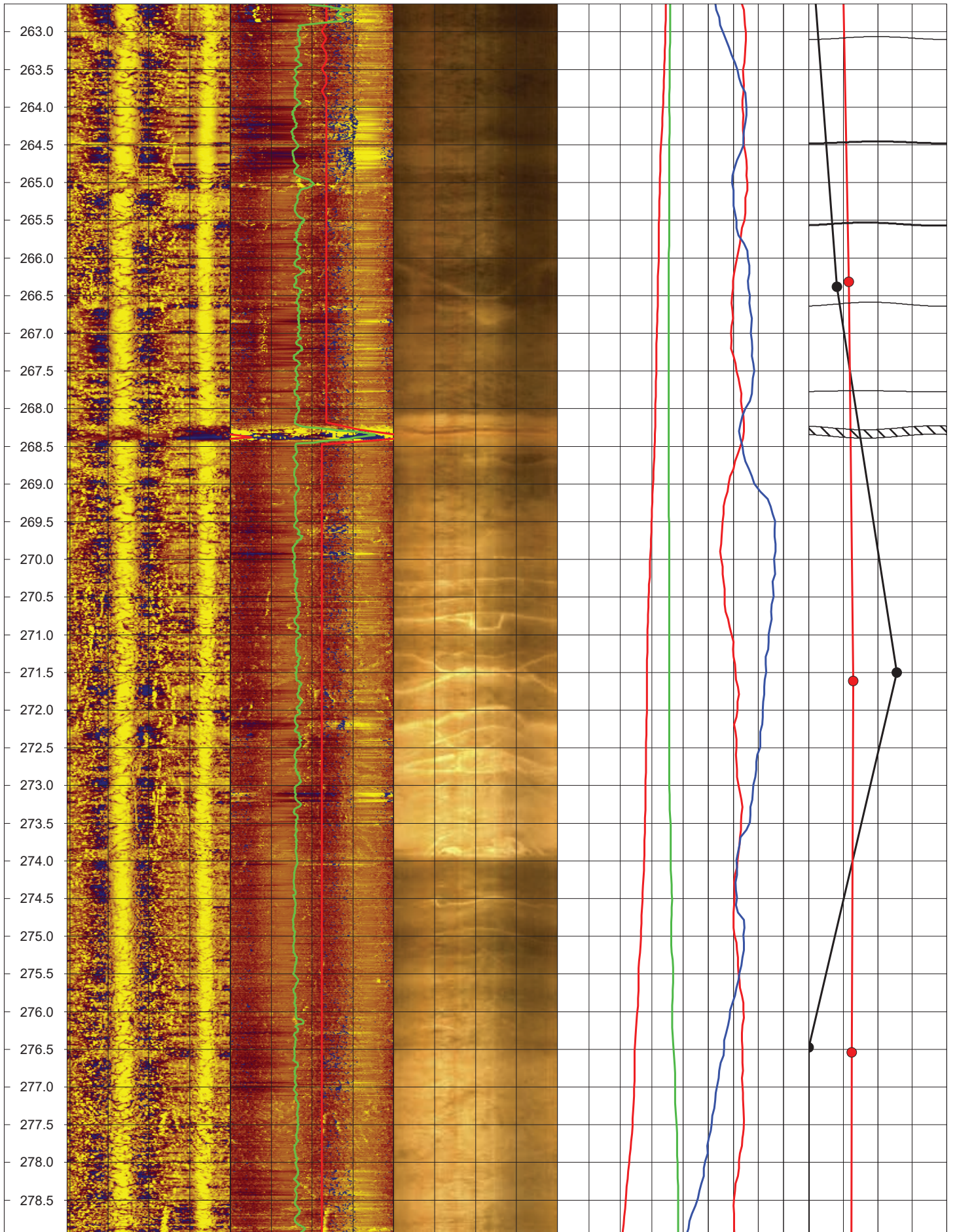


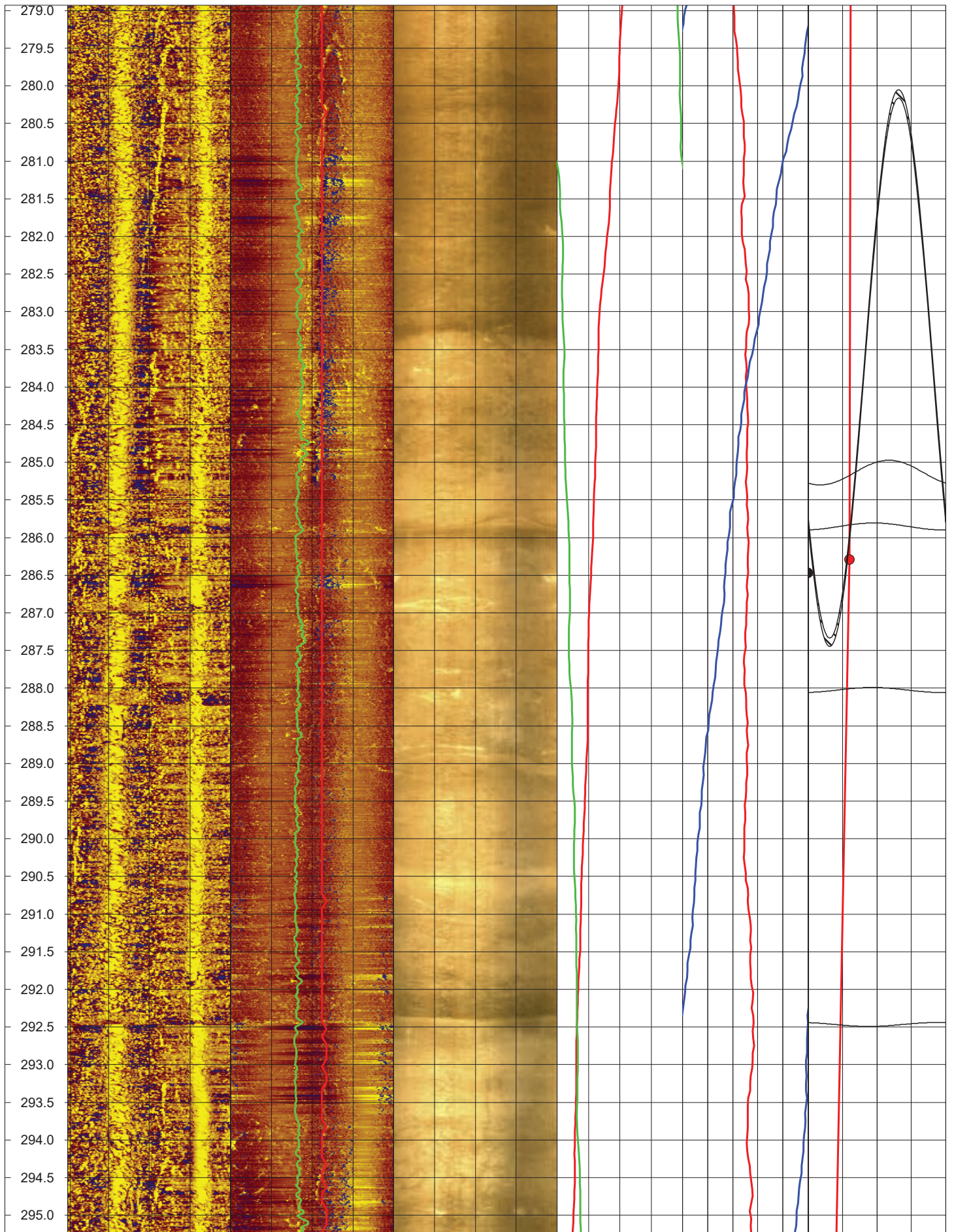


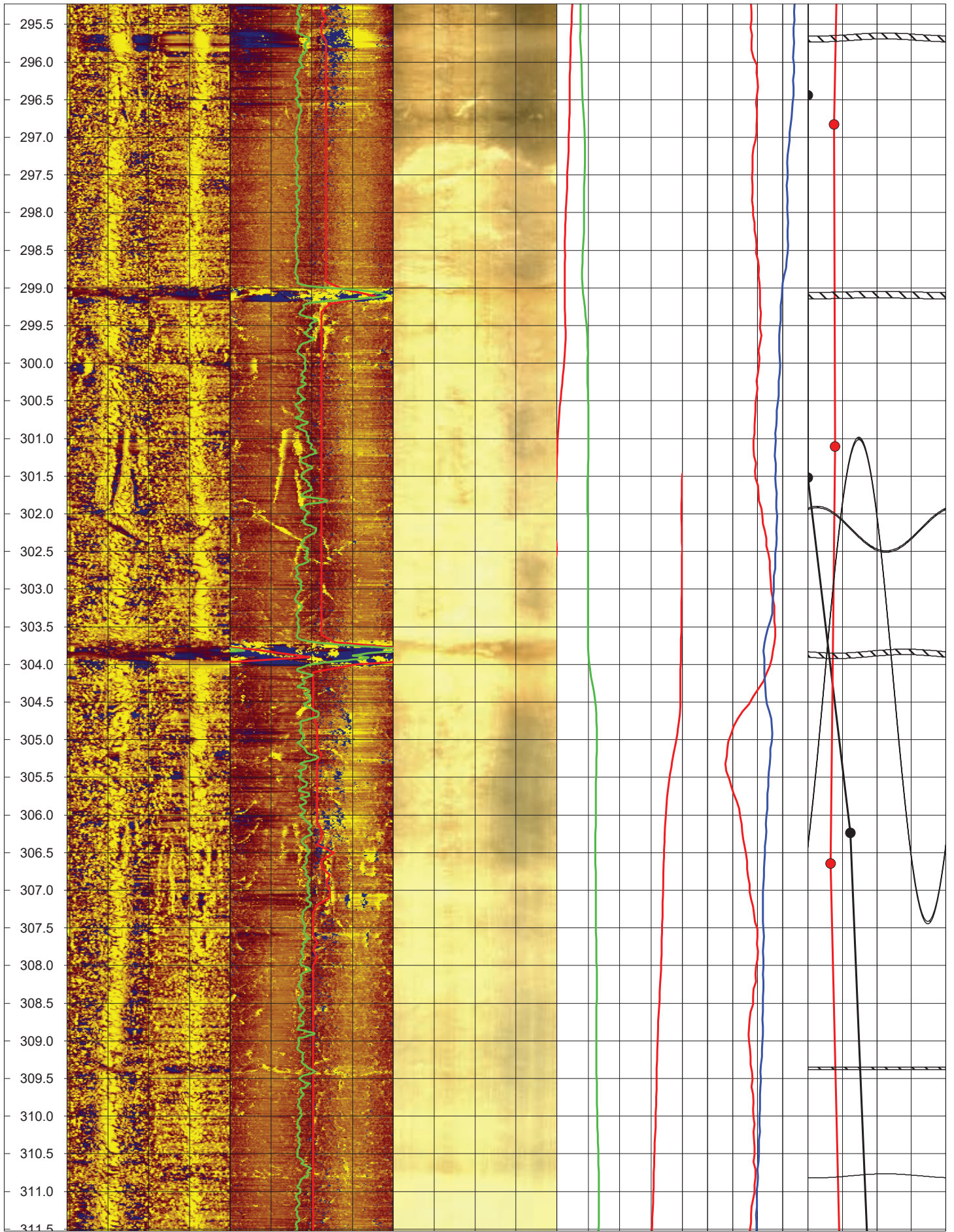


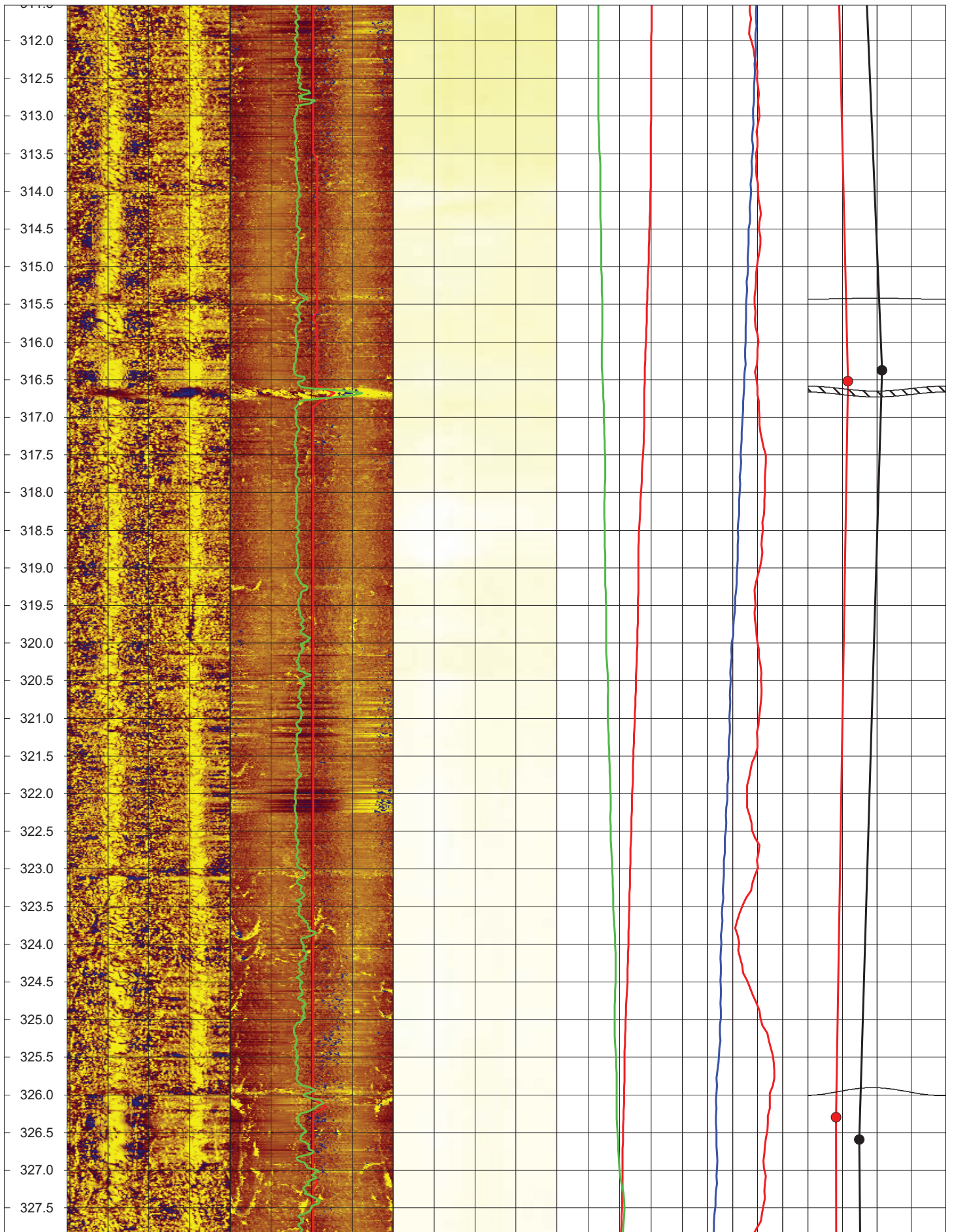


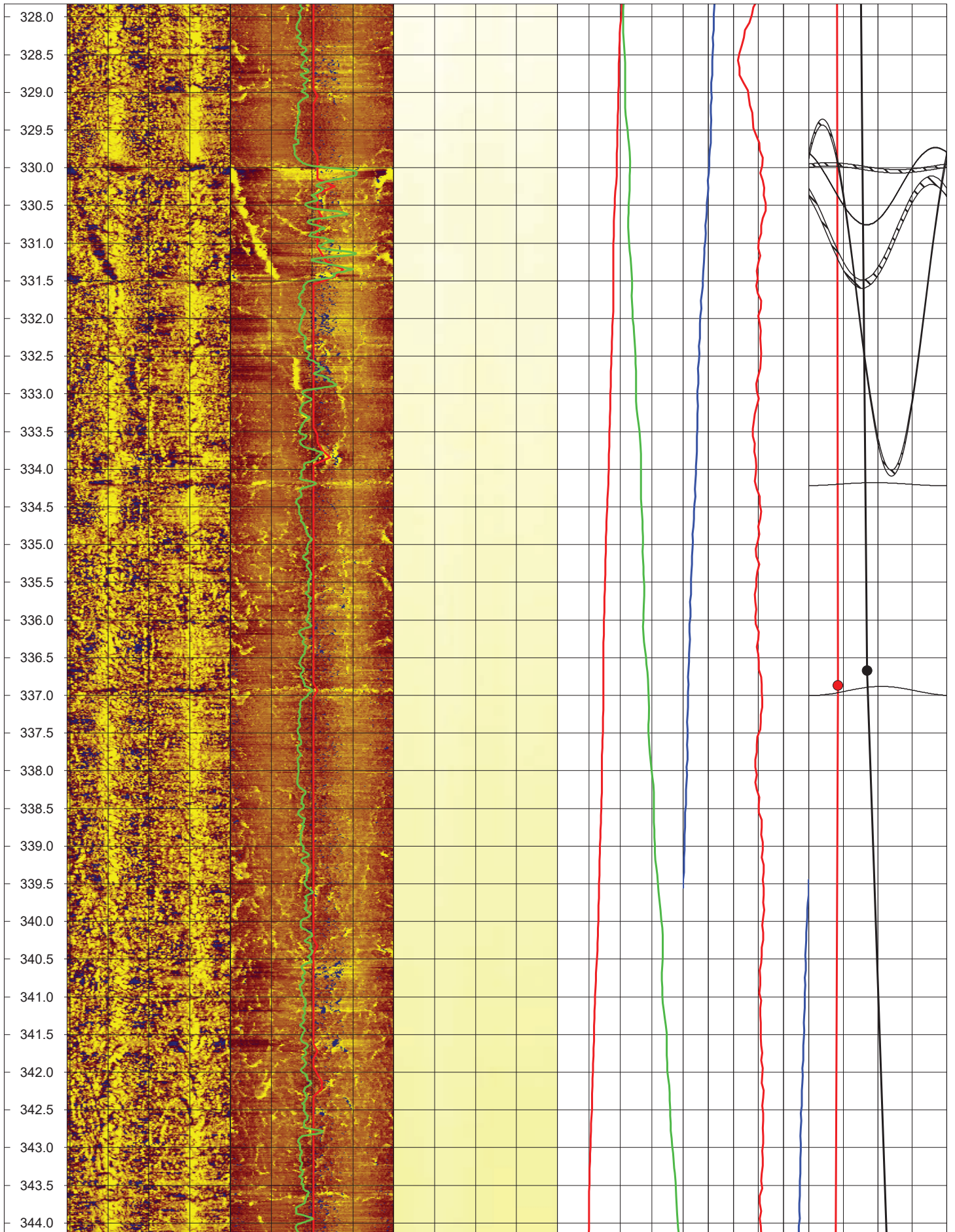


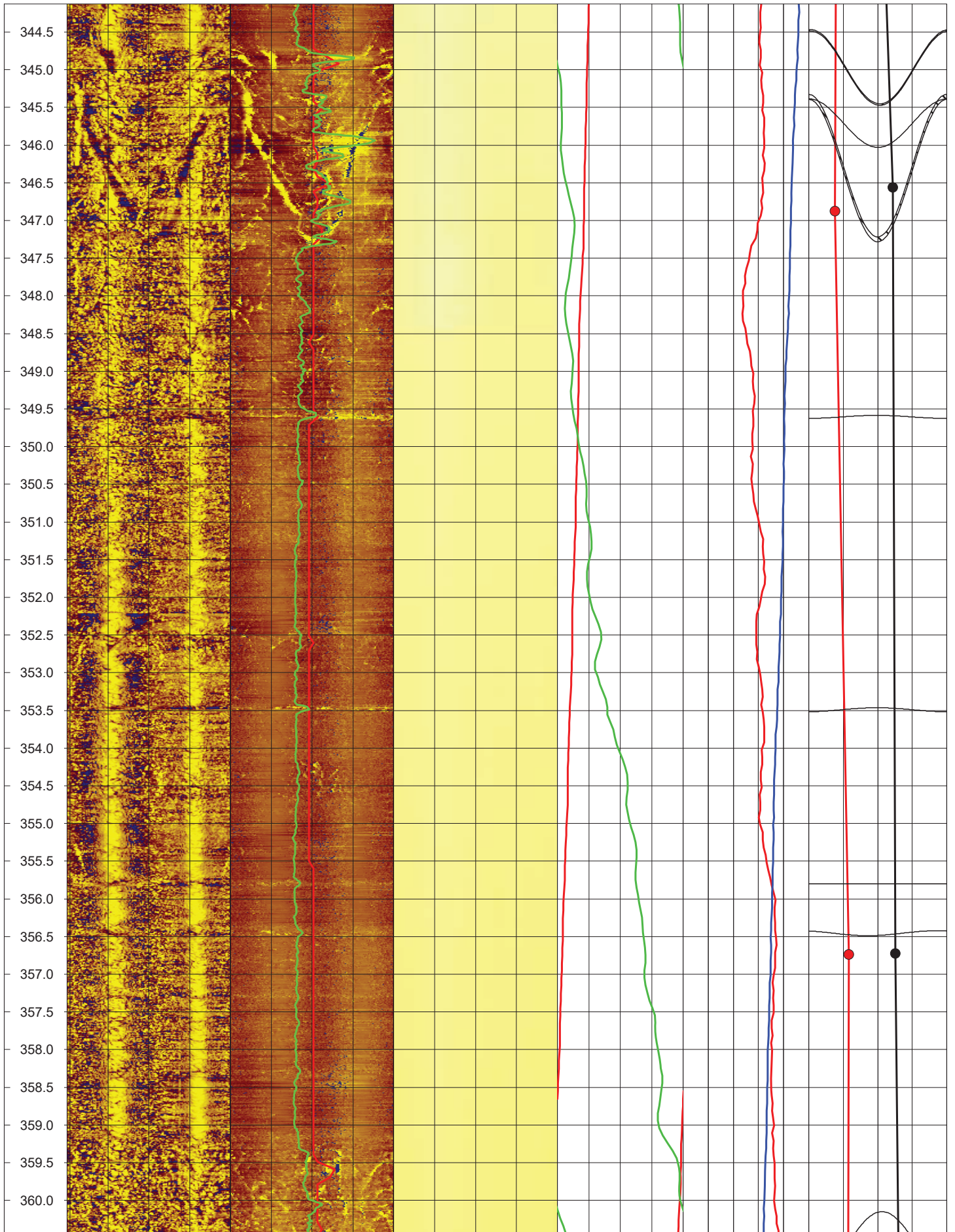


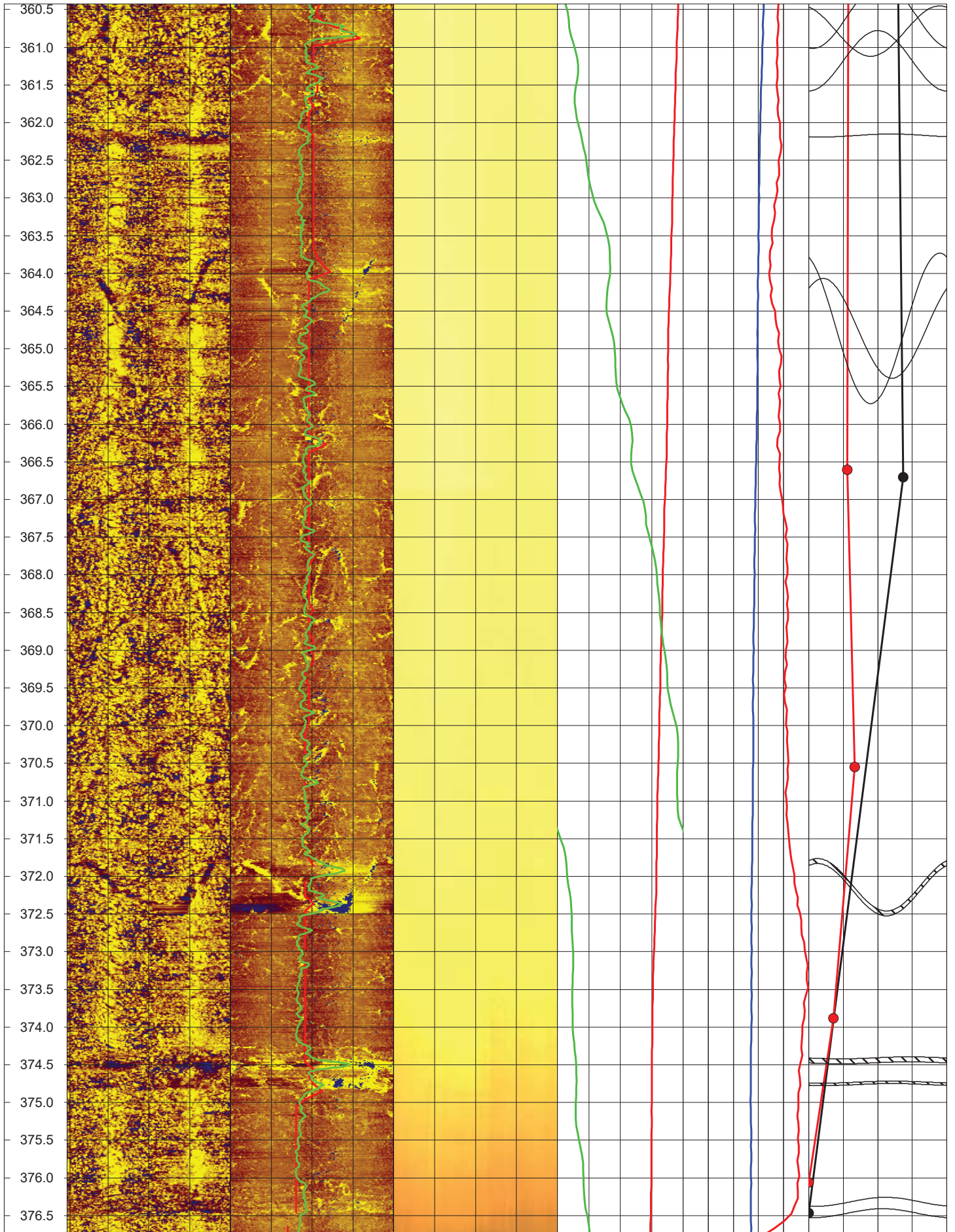


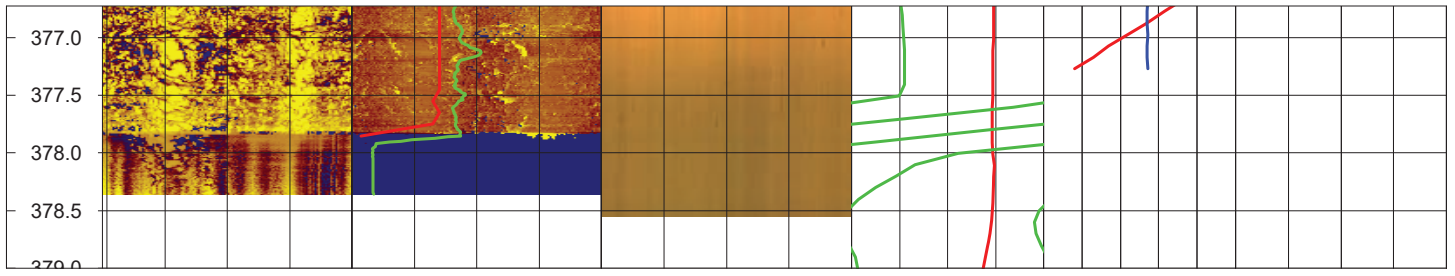


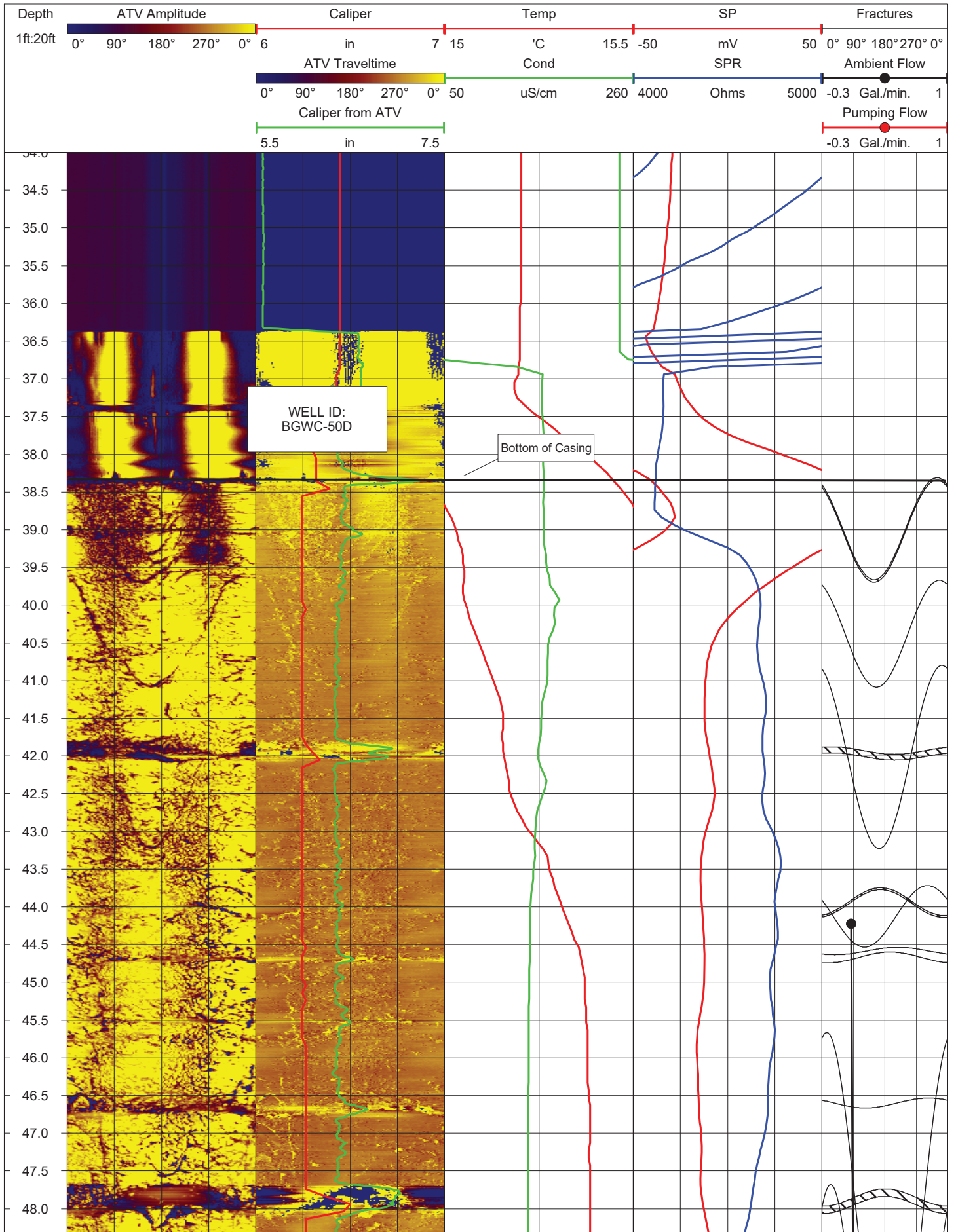


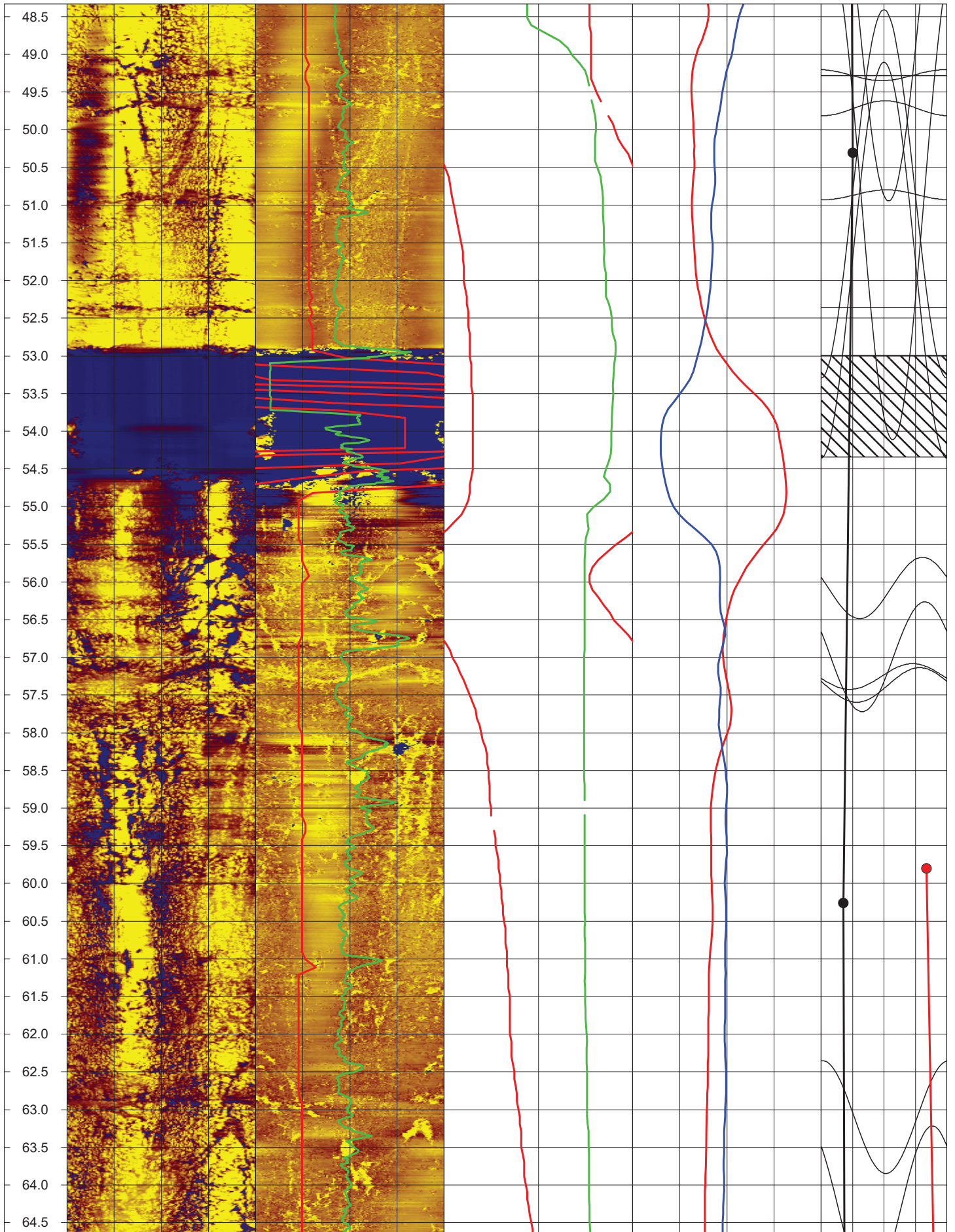


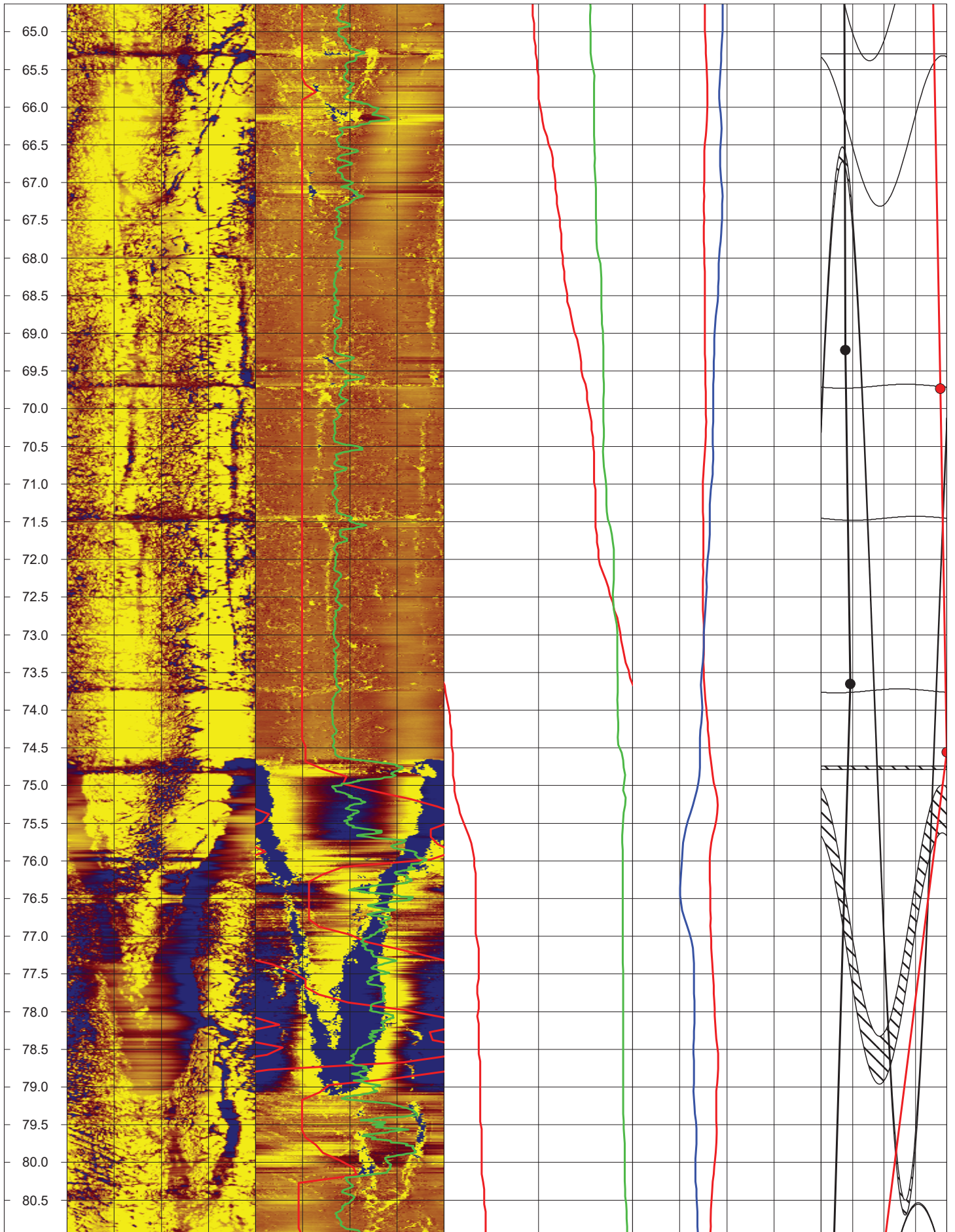


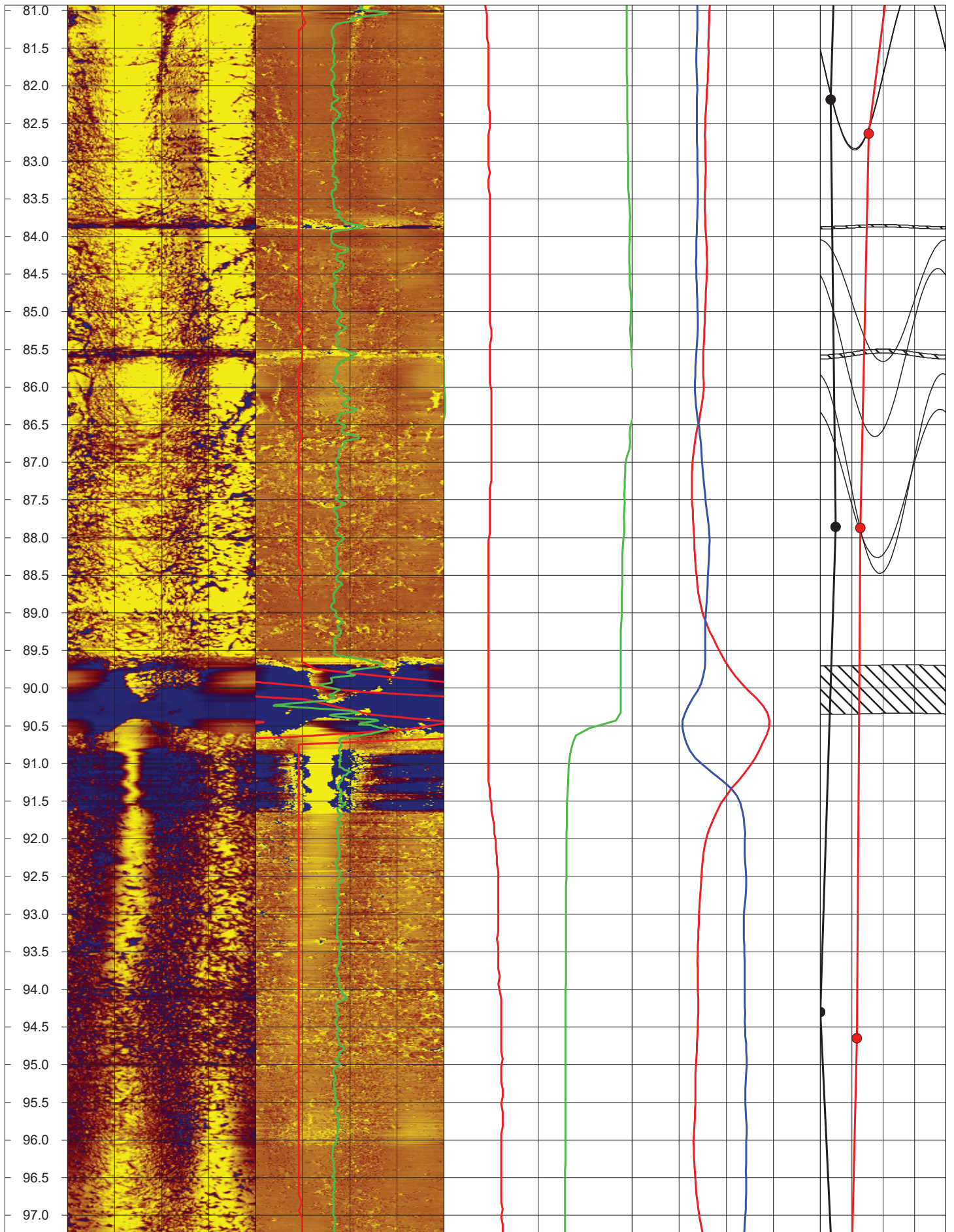


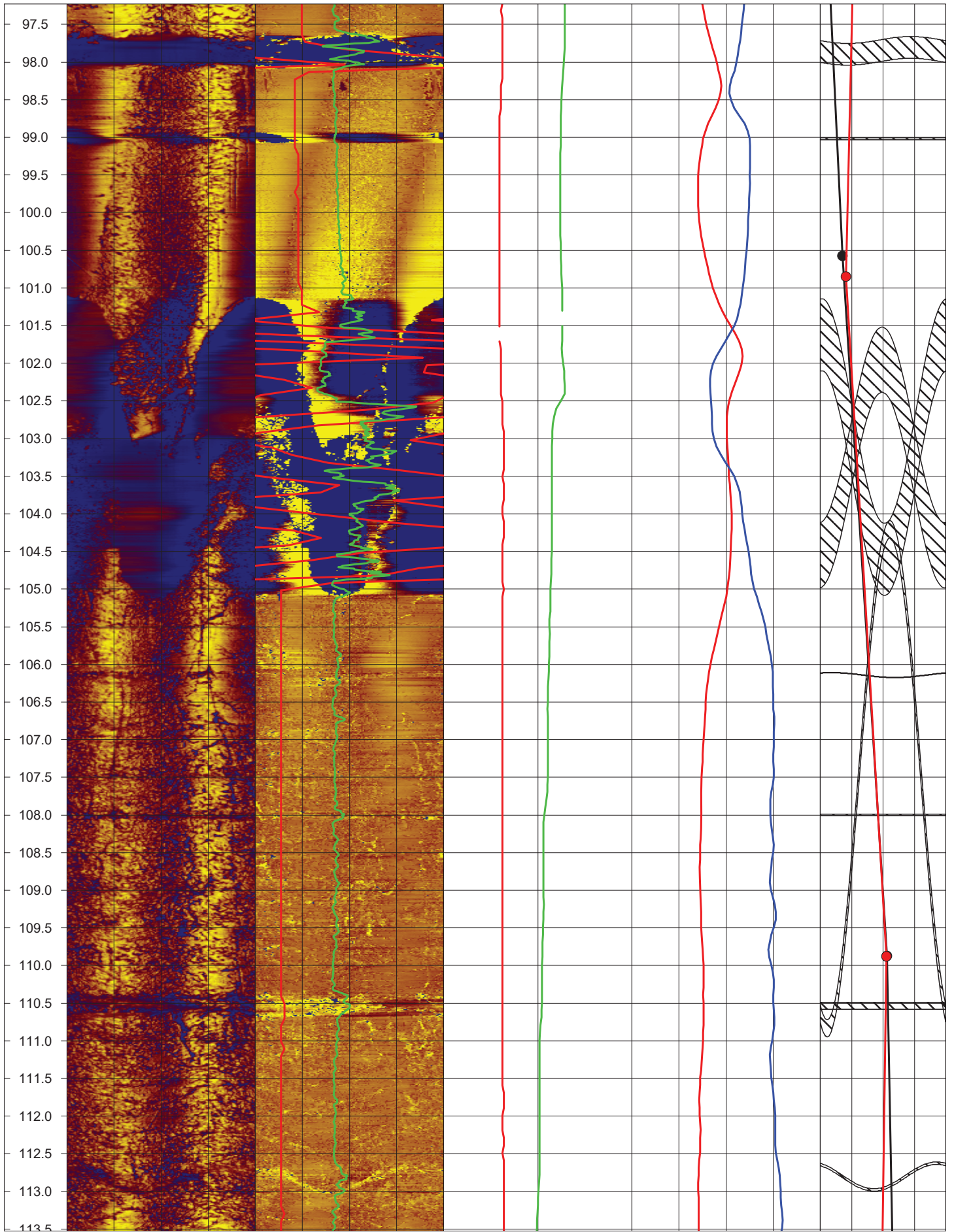


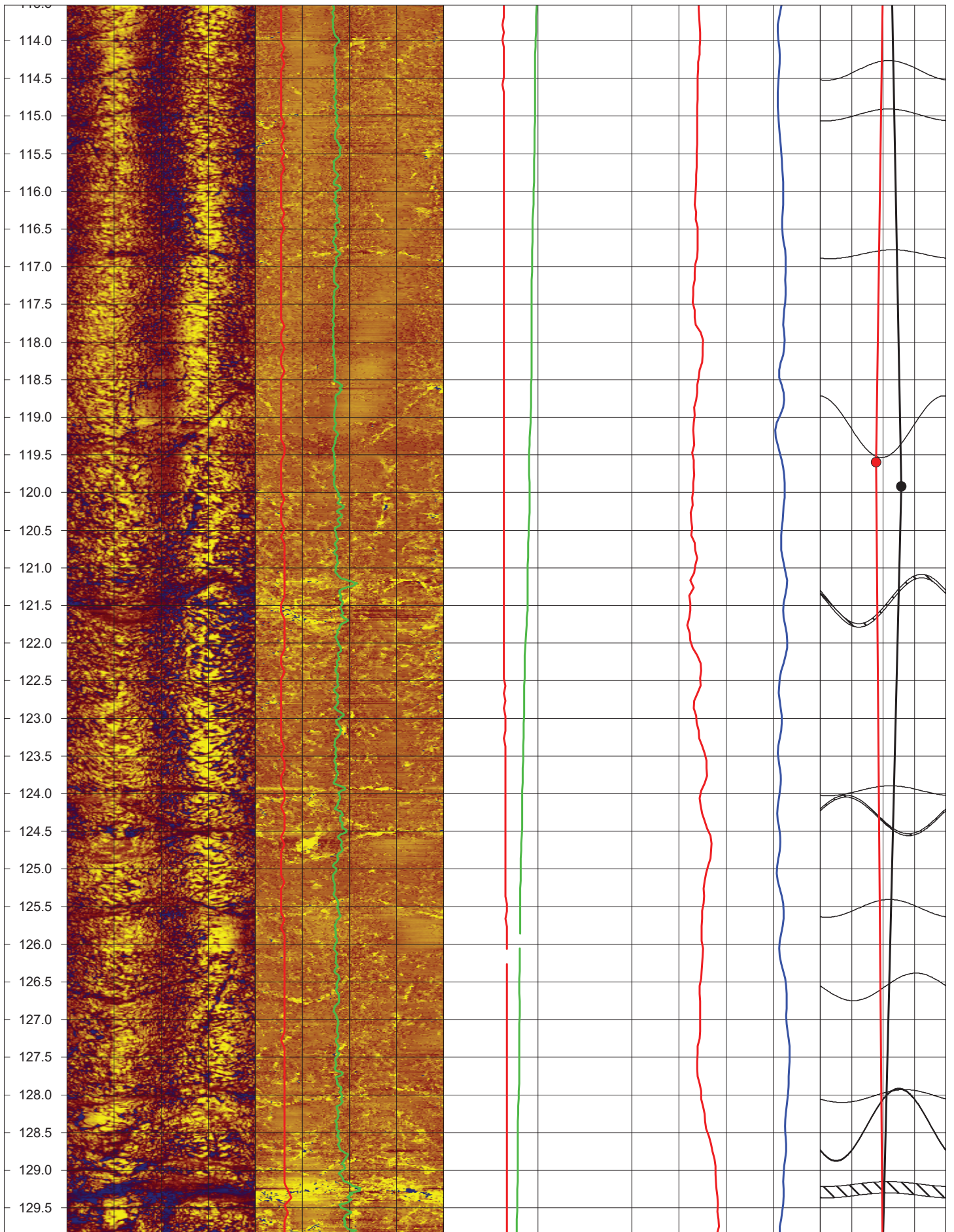


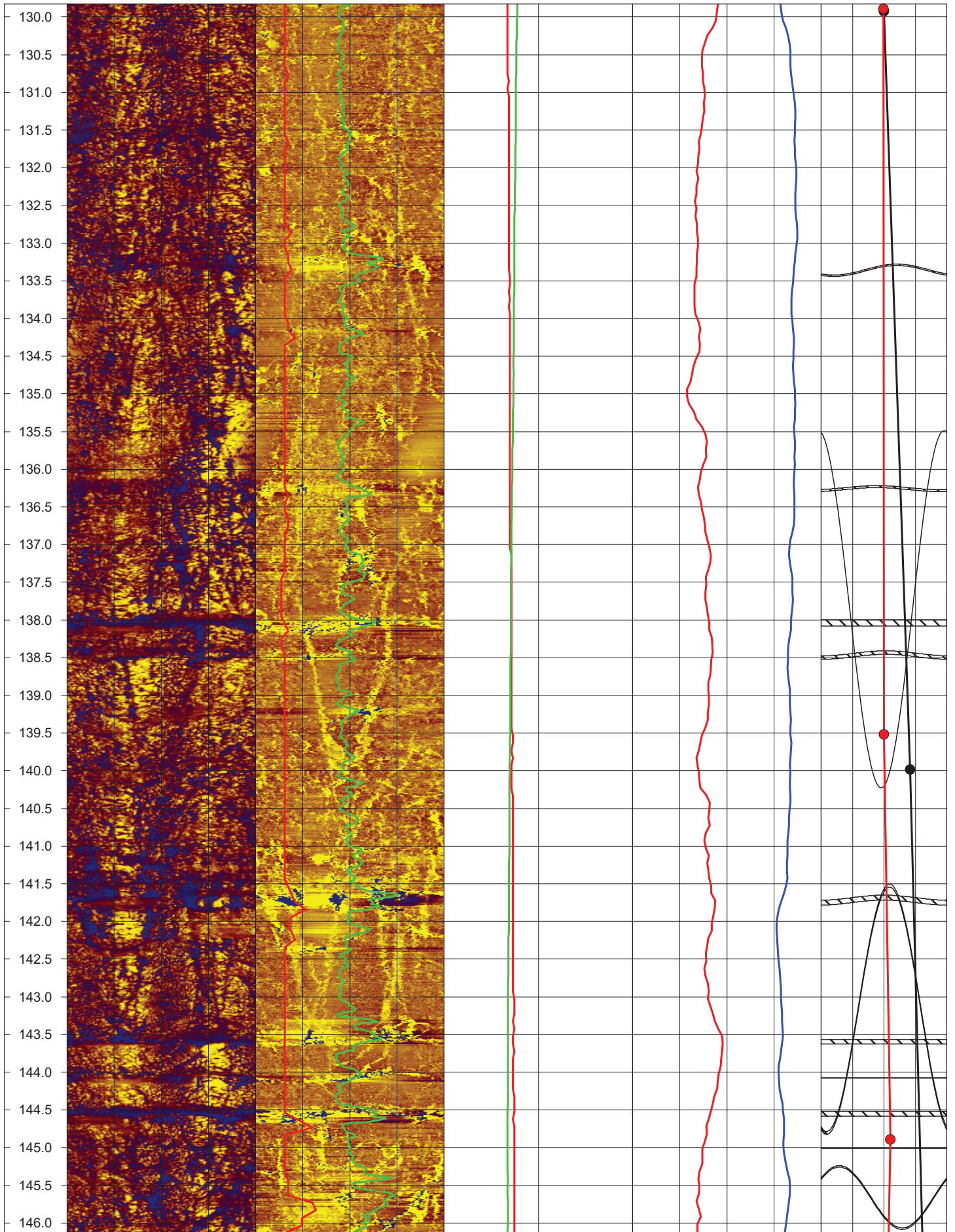


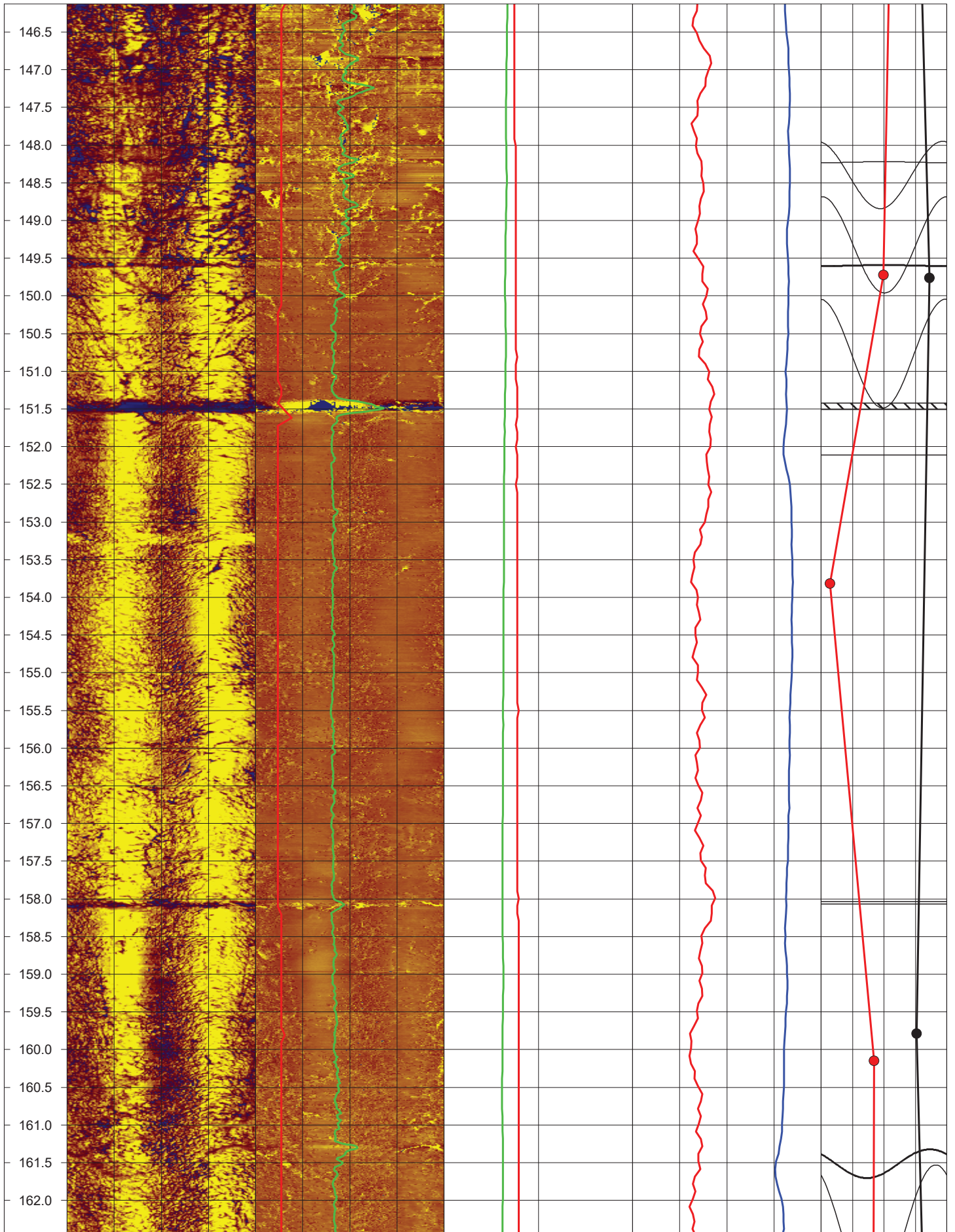


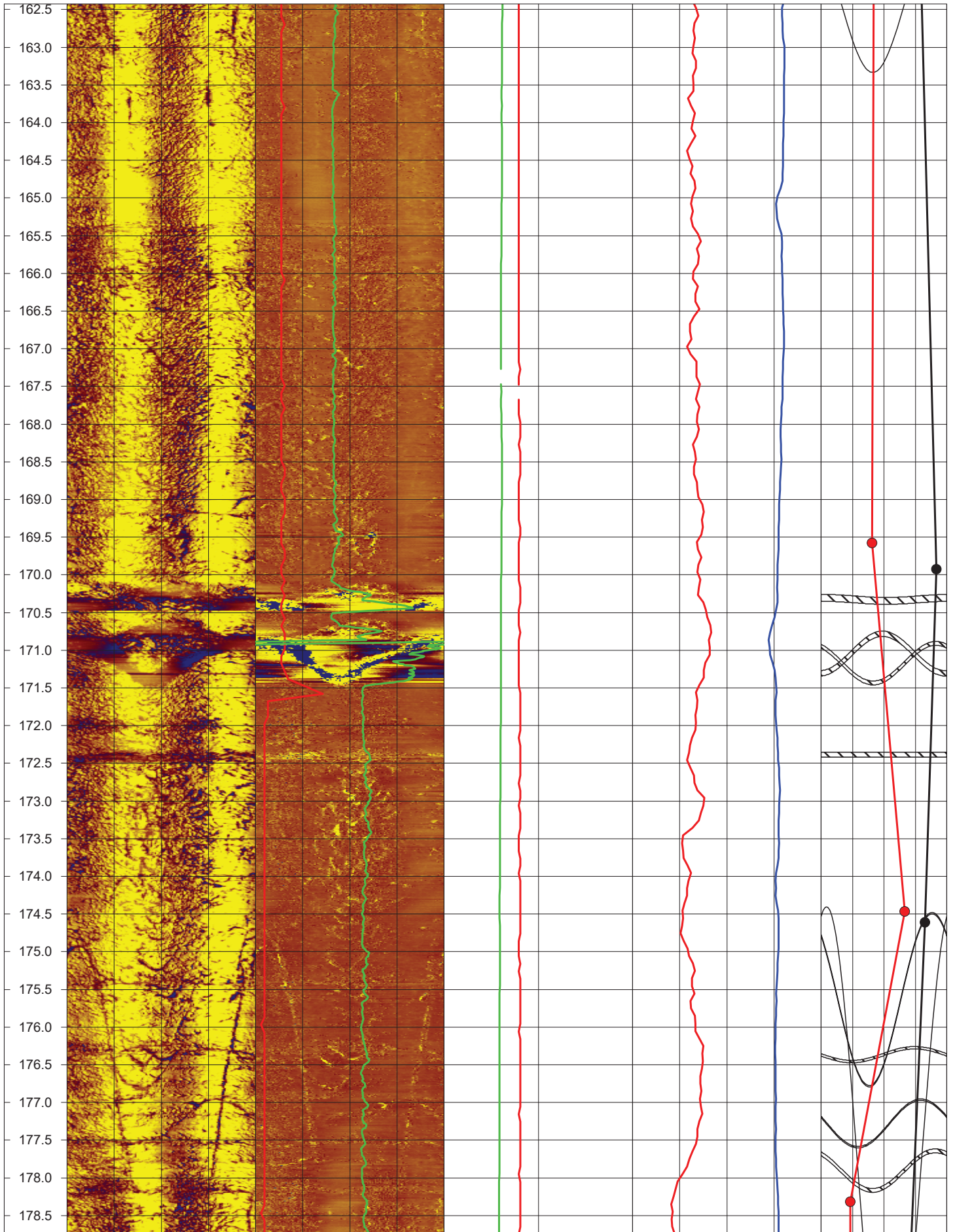


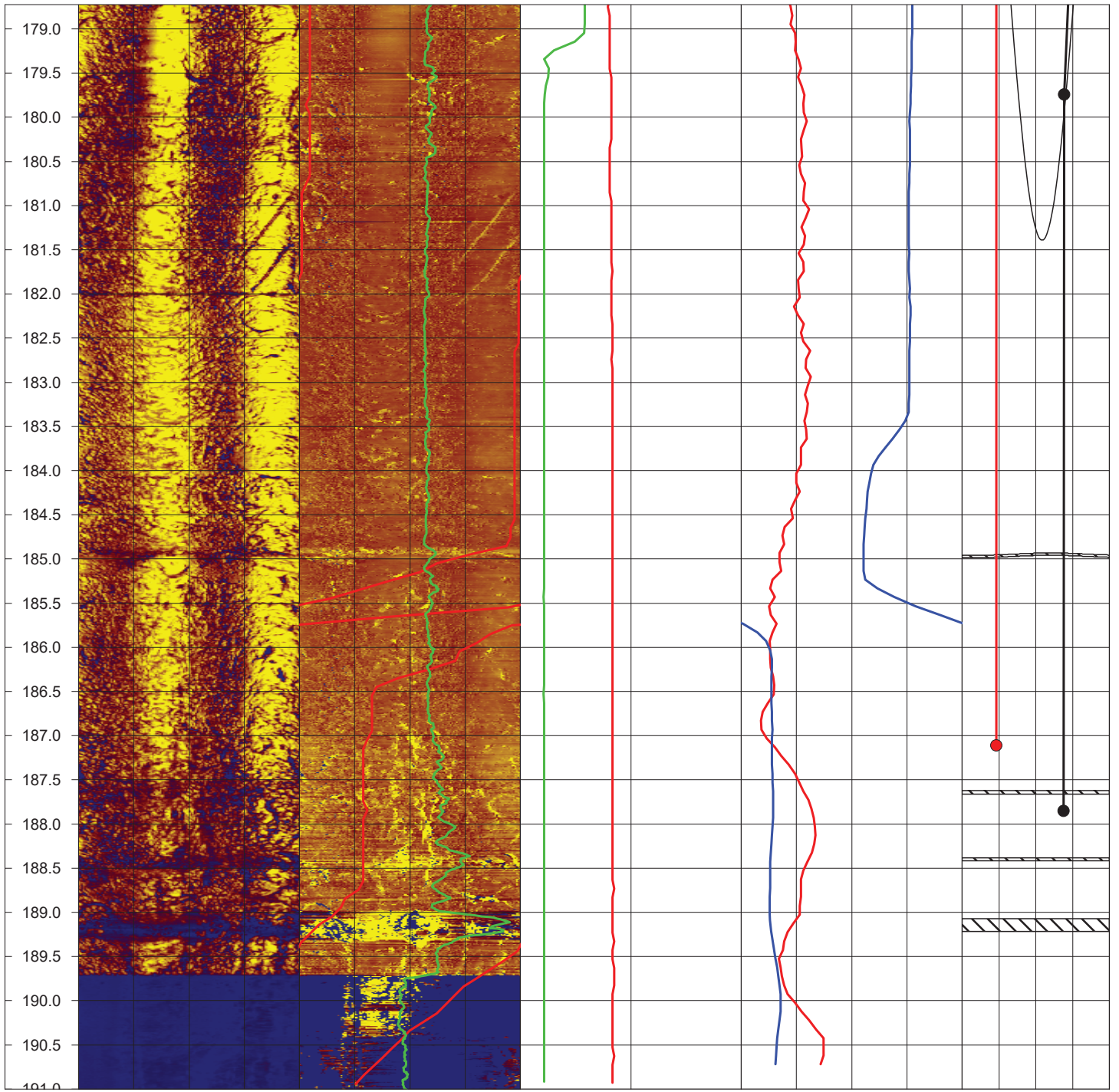




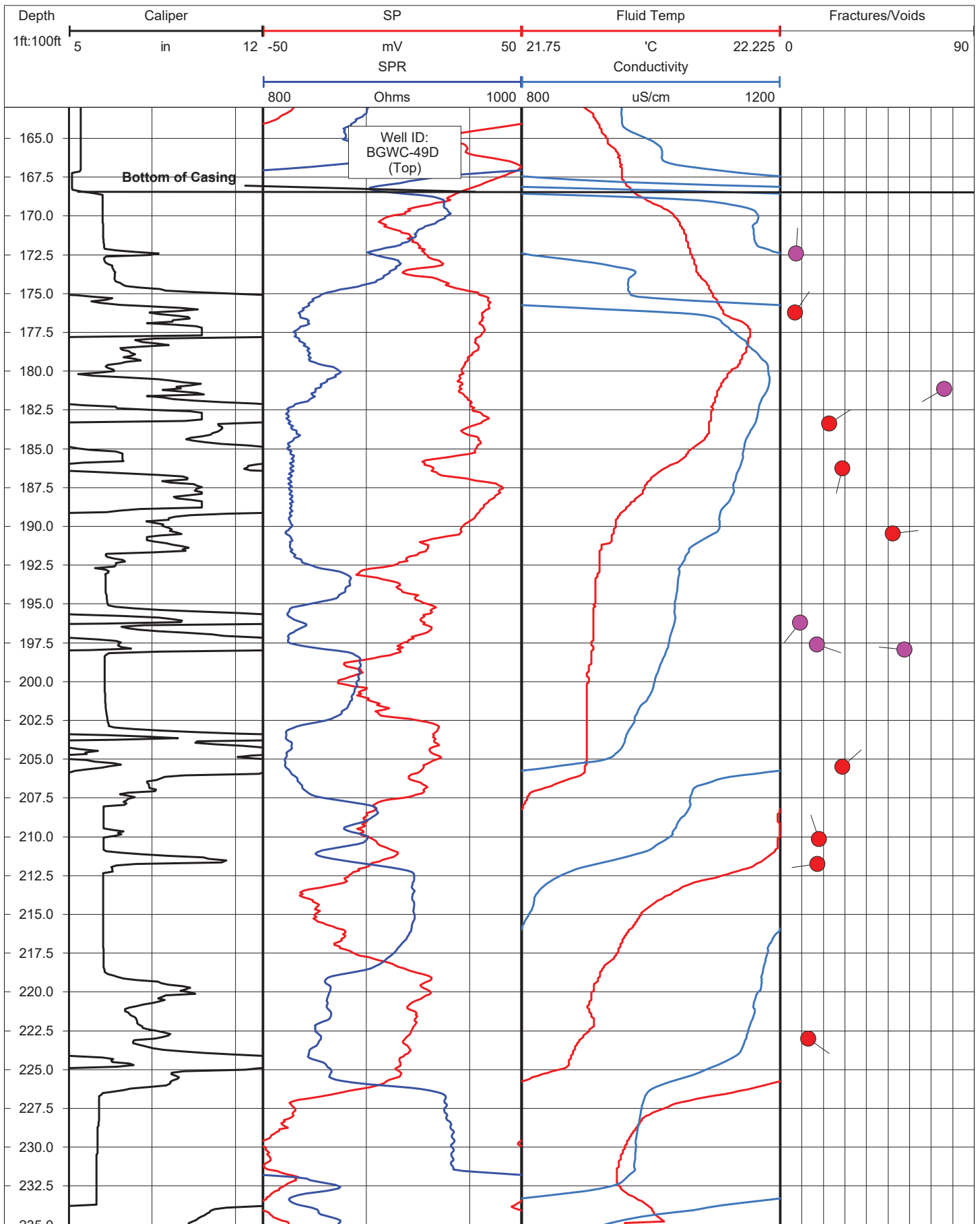


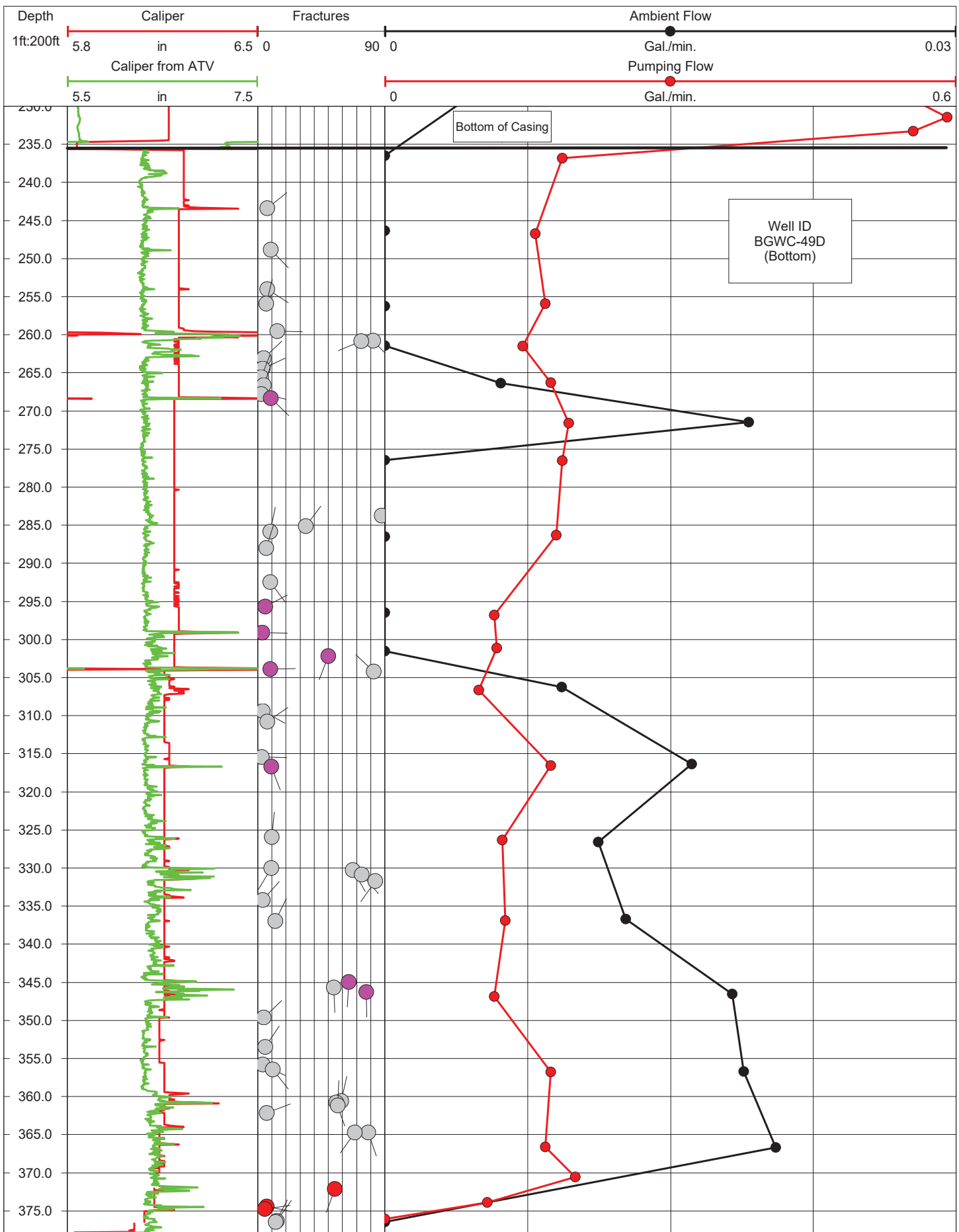


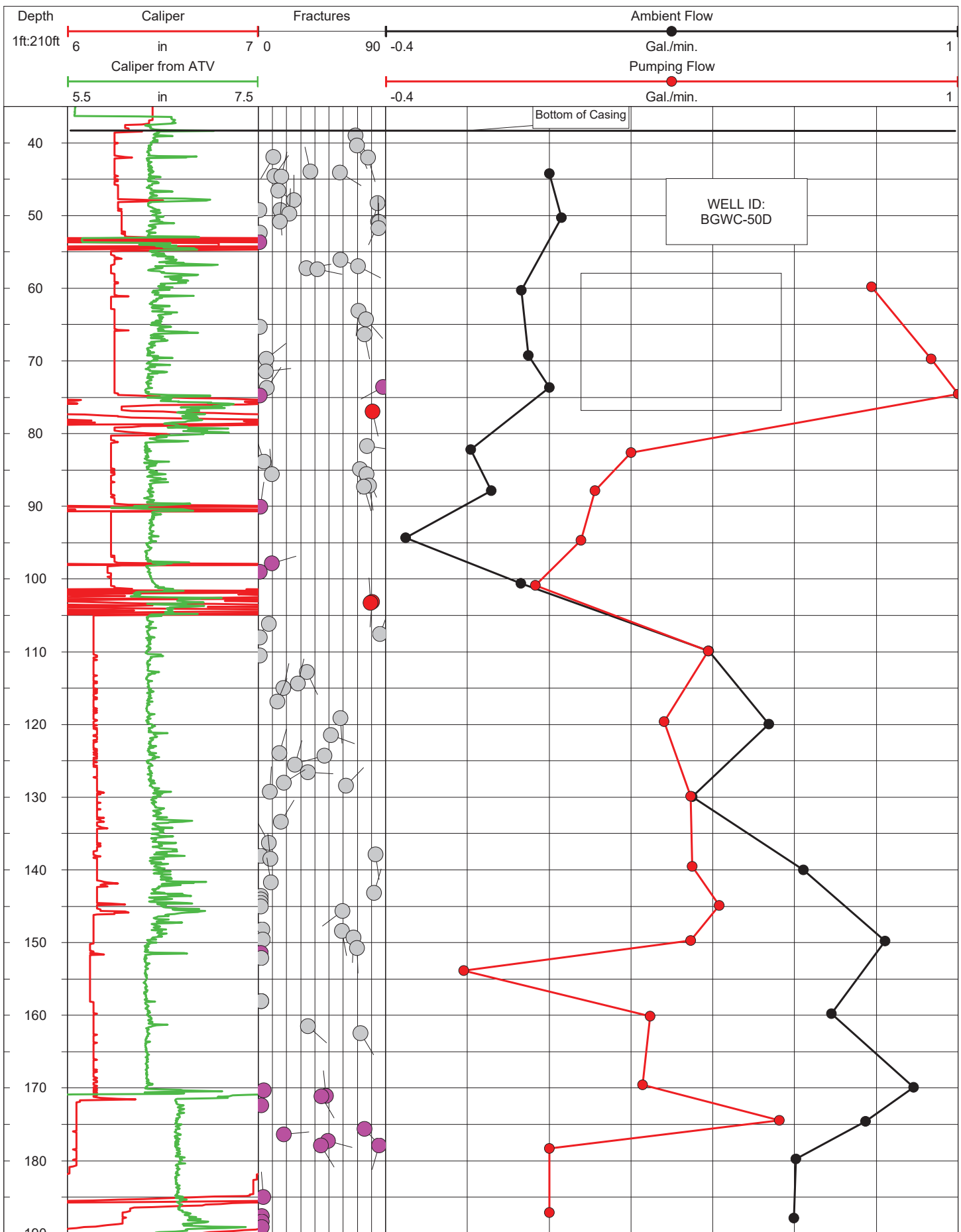




APPENDIX 4







APPENDIX D

Well Development Forms

Low-Flow Test Report:

Test Date / Time: 3/10/2021 12:22:16 PM

Project: Plant Bowen AP 2021 Well Development

Operator Name: Kevin Stephenson

Location Name: BGWC-49D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 298 ft Total Depth: 308 ft Initial Depth to Water: 31.63 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 303 ft Estimated Total Volume Pumped: 41600 ml Flow Cell Volume: 90 ml Final Flow Rate: 800 ml/min Final Draw Down: 134.58 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 126L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2021 12:22 PM	00:00	8.00 pH	22.26 °C	1,210.3 µS/cm	0.21 mg/L	15.50 NTU	41.5 mV	140.38 ft	0.61 PSU	800.00 ml/min
3/10/2021 12:26 PM	04:00	8.05 pH	21.99 °C	1,233.9 µS/cm	0.24 mg/L	14.20 NTU	30.1 mV	142.46 ft	0.62 PSU	800.00 ml/min
3/10/2021 12:30 PM	08:00	8.05 pH	21.97 °C	1,268.7 µS/cm	0.27 mg/L	13.10 NTU	20.7 mV	143.97 ft	0.64 PSU	800.00 ml/min
3/10/2021 12:34 PM	12:00	8.05 pH	21.94 °C	1,270.1 µS/cm	0.24 mg/L	12.90 NTU	13.7 mV	146.74 ft	0.64 PSU	800.00 ml/min
3/10/2021 12:38 PM	16:00	8.05 pH	21.90 °C	1,280.6 µS/cm	0.23 mg/L	11.10 NTU	6.3 mV	150.82 ft	0.65 PSU	800.00 ml/min
3/10/2021 12:42 PM	20:00	8.03 pH	21.94 °C	1,301.8 µS/cm	0.26 mg/L	9.76 NTU	0.9 mV	152.03 ft	0.66 PSU	800.00 ml/min
3/10/2021 12:46 PM	24:00	8.03 pH	21.94 °C	1,307.6 µS/cm	0.24 mg/L	8.84 NTU	-3.0 mV	154.44 ft	0.66 PSU	800.00 ml/min
3/10/2021 12:50 PM	28:00	8.03 pH	21.94 °C	1,318.7 µS/cm	0.25 mg/L	7.73 NTU	-7.1 mV	156.38 ft	0.67 PSU	800.00 ml/min
3/10/2021 12:54 PM	32:00	8.01 pH	21.99 °C	1,330.1 µS/cm	0.24 mg/L	7.00 NTU	-10.1 mV	158.04 ft	0.67 PSU	800.00 ml/min
3/10/2021 12:58 PM	36:00	8.00 pH	22.03 °C	1,332.9 µS/cm	0.24 mg/L	6.70 NTU	-12.8 mV	160.01 ft	0.67 PSU	800.00 ml/min
3/10/2021 1:02 PM	40:00	7.99 pH	22.05 °C	1,346.4 µS/cm	0.22 mg/L	6.24 NTU	-15.4 mV	161.65 ft	0.68 PSU	800.00 ml/min
3/10/2021 1:06 PM	44:00	7.98 pH	22.23 °C	1,345.2 µS/cm	0.20 mg/L	5.48 NTU	-18.5 mV	163.96 ft	0.68 PSU	800.00 ml/min
3/10/2021 1:10 PM	48:00	7.98 pH	22.30 °C	1,340.5 µS/cm	0.20 mg/L	5.67 NTU	-20.1 mV	164.97 ft	0.68 PSU	800.00 ml/min
3/10/2021 1:14 PM	52:00	7.95 pH	22.26 °C	1,365.8 µS/cm	0.20 mg/L	4.96 NTU	-21.7 mV	166.21 ft	0.69 PSU	800.00 ml/min

Low-Flow Test Report:

Test Date / Time: 4/1/2021 3:00:01 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 170 ft Total Depth: 180 ft Initial Depth to Water: 44.59 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 175 ft Estimated Total Volume Pumped: 45600 ml Flow Cell Volume: 90 ml Final Flow Rate: 1300 ml/min Final Draw Down: 126.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 181 L

Well purged dry with over range turbidity. Will return to finish development once well recharges.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
4/1/2021 3:00 PM	00:00	7.52 pH	18.03 °C	501.20 µS/cm	1.43 mg/L	36.00 NTU	23.8 mV	153.62 ft	0.24 PSU	750.00 ml/min
4/1/2021 3:04 PM	04:00	7.50 pH	16.96 °C	518.27 µS/cm	1.41 mg/L	34.60 NTU	-11.8 mV	153.38 ft	0.25 PSU	750.00 ml/min
4/1/2021 3:08 PM	08:00	7.49 pH	16.96 °C	519.59 µS/cm	1.38 mg/L	33.00 NTU	-31.3 mV	153.50 ft	0.25 PSU	750.00 ml/min
4/1/2021 3:12 PM	12:00	7.48 pH	17.01 °C	525.92 µS/cm	1.14 mg/L	26.50 NTU	-41.7 mV	154.38 ft	0.26 PSU	750.00 ml/min
4/1/2021 3:16 PM	16:00	7.47 pH	17.03 °C	531.66 µS/cm	1.19 mg/L	21.50 NTU	-50.6 mV	155.15 ft	0.26 PSU	750.00 ml/min
4/1/2021 3:20 PM	20:00	7.47 pH	17.08 °C	532.93 µS/cm	1.36 mg/L	18.40 NTU	-56.6 mV	155.86 ft	0.26 PSU	750.00 ml/min
4/1/2021 3:24 PM	24:00	7.48 pH	17.09 °C	520.26 µS/cm	1.39 mg/L	34.50 NTU	-63.2 mV	156.50 ft	0.25 PSU	750.00 ml/min
4/1/2021 3:28 PM	28:00	7.49 pH	17.05 °C	509.90 µS/cm	1.60 mg/L	52.00 NTU	-66.4 mV	157.21 ft	0.25 PSU	750.00 ml/min
4/1/2021 3:32 PM	32:00	7.50 pH	17.00 °C	510.06 µS/cm	1.61 mg/L	52.10 NTU	-65.7 mV	157.23 ft	0.25 PSU	500.00 ml/min
4/1/2021 3:36 PM	36:00	7.50 pH	17.01 °C	506.93 µS/cm	1.56 mg/L	60.10 NTU	-69.3 mV	156.77 ft	0.25 PSU	500.00 ml/min
4/1/2021 3:40 PM	40:00	7.50 pH	17.10 °C	502.02 µS/cm	1.66 mg/L	62.00 NTU	-70.9 mV	156.23 ft	0.24 PSU	500.00 ml/min
4/1/2021 3:44 PM	44:00	7.63 pH	16.79 °C	532.24 µS/cm	9.09 mg/L	58.90 NTU	-71.3 mV	164.45 ft	0.26 PSU	1,300.0 ml/min
4/1/2021 3:48 PM	48:00	7.61 pH	16.65 °C	495.86 µS/cm	16.99 mg/L	24.10 NTU	-50.9 mV	163.92 ft	0.24 PSU	1,300.0 ml/min
4/1/2021 3:52 PM	52:00	7.70 pH	16.69 °C	414.43 µS/cm	11.79 mg/L	110.00 NTU	-35.2 mV	168.92 ft	0.20 PSU	1,300.0 ml/min
4/1/2021 3:56 PM	56:00	7.66 pH	16.72 °C	368.06 µS/cm	6.55 mg/L	1,000.00 NTU	-44.9 mV	170.90 ft	0.18 PSU	1,300.0 ml/min

Low-Flow Test Report:

Test Date / Time: 4/5/2021 9:48:33 AM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 175 ft Total Depth: 185 ft Initial Depth to Water: 38.1 ft	Pump Type: Geotech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 180 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 600 ml/min Final Draw Down: 51.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728648
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Test Notes:

Well development started on 04.01.21, well went dry after 200 liter evacuation. Resumed development on 04.05.21.

Prepurged 18 liters prior to starting log on 04.05.21.

Final Well Depth 187.28

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
4/5/2021 9:48 AM	00:00	7.68 pH	16.91 °C	519.01 µS/cm	0.11 mg/L	6.20 NTU	-70.1 mV	38.10 ft	0.25 PSU	1,000.00 ml/min
4/5/2021 9:52 AM	04:00	7.68 pH	16.92 °C	513.37 µS/cm	0.10 mg/L	8.08 NTU	-63.5 mV	70.96 ft	0.25 PSU	1,000.00 ml/min
4/5/2021 9:56 AM	08:00	7.68 pH	16.99 °C	512.21 µS/cm	0.11 mg/L	8.44 NTU	-64.9 mV	74.85 ft	0.25 PSU	600.00 ml/min
4/5/2021 10:00 AM	12:00	7.69 pH	17.03 °C	509.70 µS/cm	0.14 mg/L	6.09 NTU	-61.8 mV	79.68 ft	0.25 PSU	600.00 ml/min
4/5/2021 10:04 AM	16:00	7.70 pH	17.07 °C	504.70 µS/cm	0.16 mg/L	10.92 NTU	-62.6 mV	82.46 ft	0.25 PSU	600.00 ml/min
4/5/2021 10:08 AM	20:00	7.70 pH	17.08 °C	501.90 µS/cm	0.13 mg/L	4.12 NTU	-55.7 mV	84.42 ft	0.24 PSU	600.00 ml/min
4/5/2021 10:12 AM	24:00	7.70 pH	17.13 °C	498.24 µS/cm	0.12 mg/L	2.46 NTU	-56.6 mV	86.74 ft	0.24 PSU	600.00 ml/min
4/5/2021 10:16 AM	28:00	7.71 pH	17.14 °C	493.65 µS/cm	0.12 mg/L	2.77 NTU	-59.0 mV	89.28 ft	0.24 PSU	600.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX E

Certified Well Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
BGWC-49D	1499790.128	2066461.957	699.75	1499791.623	2066462.261	696.95	NAIL
BGWC-50D	1499269.15	2065781.874	717.434	1499267.799	2065782.021	714.675	NAIL
Benchmark	Northing	Easting	Elevation				
BM-B1	1504573.789	2067395.885	717.78				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 03/23/2021. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NA D'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-B1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

3/25/2021



COA - LS003119
Exp. 06/30/2022

APPENDIX B

Well Inspection Forms

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-1
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-2
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			

 Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-3
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-4
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_____	✓	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
e	Is the well locked and is the lock in good condition?	✓	_____	_____
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓	_____	_____
b	Is the well pad sloped away from the protective casing?	✓	_____	_____
c	Is the well pad in complete contact with the protective casing?	✓	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	✓	_____	_____
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	_____	_____	✓
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	✓
c	Does the well require redevelopment (low flow, turbid)?	_____	_____	✓
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

- standing water when raining

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-5
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-6
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
e	Is the well locked and is the lock in good condition?	✓	_____	_____
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓	_____	_____
b	Is the well pad sloped away from the protective casing?	✓	_____	_____
c	Is the well pad in complete contact with the protective casing?	✓	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	✓	_____	_____
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	_____	_____	✓
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-7
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

[Handwritten Signature]

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID Bowl-8
 Date, field conditions 2/15/21

- | | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

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f BOW


Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWF - 9
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID B6WC-10
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

[Handwritten Signature]

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-11
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				
<u>P2</u>				

Signature and Seal of PE/PG responsible for inspection

[Signature]

Groundwater Monitoring Well Integrity Form

Site Name Piant Bowen
 Permit Number _____
 Well ID BGWSL-12
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

FBW

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID _____
 Date, field conditions Bowling - 13
2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				


Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Piant Borer
 Permit Number _____
 Well ID Browie - 14A
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection



Groundwater Monitoring Well Integrity Form

Site Name Plant Basin
 Permit Number _____
 Well ID B6WC-15
 Date, field conditions 2/15/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-16
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

AK Boh

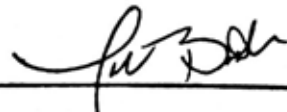
Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID B6wC-17
 Date, field conditions 2/12/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID Bowen-18
 Date, field conditions 2/15/21

yes no n/a

1 Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Is the well in a high traffic area and does the well require protection from traffic?
- d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)

2 Protective Casing

- a Is the protective casing free from apparent damage and able to be secured?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
- e Is the well locked and is the lock in good condition?

3 Surface pad

- a Is the well pad in good condition (not cracked or broken)?
- b Is the well pad sloped away from the protective casing?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean (not covered with sediment or debris)?

4 Internal casing

- a Does the cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
- c Is the well properly vented for equilibration of air pressure?
- d Is the survey point clearly marked on the inner casing?
- e Is the depth of the well consistent with the original well log?
- f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)


5 Sampling: Groundwater Wells Only:

- a Does well recharge adequately when purged?
- b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?
- c Does the well require redevelopment (low flow, turbid)?

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGLWC-19
 Date, field conditions 2/15/21

yes no n/a

1 Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Is the well in a high traffic area and does the well require protection from traffic?
- d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)

2 Protective Casing

- a Is the protective casing free from apparent damage and able to be secured?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
- e Is the well locked and is the lock in good condition?

3 Surface pad

- a Is the well pad in good condition (not cracked or broken)?
- b Is the well pad sloped away from the protective casing?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean (not covered with sediment or debris)?

4 Internal casing

- a Does the cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
- c Is the well properly vented for equilibration of air pressure?
- d Is the survey point clearly marked on the inner casing?
- e Is the depth of the well consistent with the original well log?
- f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)


5 Sampling: Groundwater Wells Only:

- a Does well recharge adequately when purged?
- b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?
- c Does the well require redevelopment (low flow, turbid)?

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

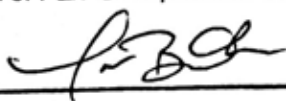
Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-20
 Date, field conditions 2/15/21

yes no n/a

- 1 Location/Identification**
- a Is the well visible and accessible?
 - b Is the well properly identified with the correct well ID?
 - c Is the well in a high traffic area and does the well require protection from traffic?
 - d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)
- 2 Protective Casing**
- a Is the protective casing free from apparent damage and able to be secured?
 - b Is the casing free of degradation or deterioration?
 - c Does the casing have a functioning weep hole?
 - d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
 - e Is the well locked and is the lock in good condition?
- 3 Surface pad**
- a Is the well pad in good condition (not cracked or broken)?
 - b Is the well pad sloped away from the protective casing?
 - c Is the well pad in complete contact with the protective casing?
 - d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)
 - e Is the pad surface clean (not covered with sediment or debris)?
- 4 Internal casing**
- a Does the cap prevent entry of foreign material into the well?
 - b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
 - c Is the well properly vented for equilibration of air pressure?
 - d Is the survey point clearly marked on the inner casing?
 - e Is the depth of the well consistent with the original well log?
 - f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)
- 5 Sampling: Groundwater Wells Only:**
- a Does well recharge adequately when purged?
 - b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?
 - c Does the well require redevelopment (low flow, turbid)?
- 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?**

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

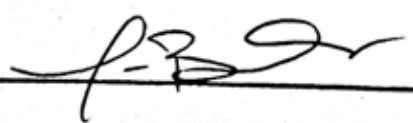


Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-21
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

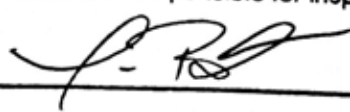


Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-22
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

Site Name Plant Bawan
 Permit Number _____
 Well ID B6WC-23
 Date, field conditions 2/15/21

- | | | yes | no | n/a |
|--|---|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | | |
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Protective Casing | | | | |
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Surface pad | | | | |
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Internal casing | | | | |
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Sampling: Groundwater Wells Only: | | | | |
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements? | | | | |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection


[Signature]

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-24
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Signature and Seal of PE/PG responsible for inspection

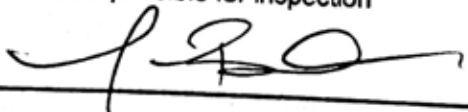


Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-25
 Date, field conditions 2/15/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection



Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA - 26
 Date, field conditions 2/15/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Raven
 Permit Number _____
 Well ID RBWA - 27
 Date, field conditions 2/15/21

yes no n/a

1 Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Is the well in a high traffic area and does the well require protection from traffic?
- d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)

2 Protective Casing

- a Is the protective casing free from apparent damage and able to be secured?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
- e Is the well locked and is the lock in good condition?

3 Surface pad

- a Is the well pad in good condition (not cracked or broken)?
- b Is the well pad sloped away from the protective casing?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean (not covered with sediment or debris)?

4 Internal casing

- a Does the cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?
- c Is the well properly vented for equilibration of air pressure?
- d Is the survey point clearly marked on the inner casing?
- e Is the depth of the well consistent with the original well log?
- f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)

5 Sampling: Groundwater Wells Only:

- a Does well recharge adequately when purged?
- b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?
- c Does the well require redevelopment (low flow, turbid)?

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-28
 Date, field conditions 2/15/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-29
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

P. Bowen

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-30
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-21
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

for Bowen

Groundwater Monitoring Well Integrity Form

Name Plant Bowen
 Permit Number _____
 Well ID B646-32
 Date, field conditions 2/15/21

		yes	no	n/a
1	<u>Location/Identification</u>			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<u>Protective Casing</u>			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<u>Surface pad</u>			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<u>Internal casing</u>			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<u>Sampling: Groundwater Wells Only:</u>			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-33
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

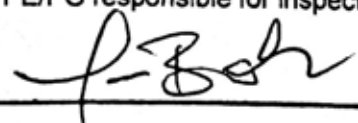
Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Bowen
 Permit Number _____
 Well ID 36WC-34D
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	✓	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓	_____	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
e	Is the well locked and is the lock in good condition?	✓	_____	_____
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓	_____	_____
b	Is the well pad sloped away from the protective casing?	✓	_____	_____
c	Is the well pad in complete contact with the protective casing?	✓	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	✓	_____	_____
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	✓	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓	_____	_____

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection


Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID B6WC-35D
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

[Signature]

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-36D
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

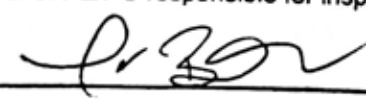
Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-3TD
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection



Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC - 38D
 Date, field conditions 2/15/21 49°/29° rain

1 Location/Identification

- | | | yes | no | n/a |
|---|--|-------------------------------------|-------------------------------------|--------------------------|
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

2 Protective Casing

- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

3 Surface pad

- | | | | | |
|---|--|-------------------------------------|--------------------------|--------------------------|
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4 Internal casing

- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

5 Sampling: Groundwater Wells Only:

- | | | | | |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| a | Does well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWL-39
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-40
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Basin
 Permit Number _____
 Well ID 56wmc - 41D
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID B6W-42D
 Date, field conditions 2/15/21

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-43D
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-44D
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWA-47D
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> - need vent
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bower
 Permit Number _____
 Well ID BGWA-48D
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> - need vent
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID RGWG-49D
 Date 3/22/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Based
 Permit Number _____
 Well ID BGWC-50D
 Date 3/22/21

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-51
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> - needs gravel
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID BGWC-52
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	✓	_____	_____
b	Is the well properly identified with the correct well ID?	✓	_____	_____
c	Is the well in a high traffic area and does the well require protection from traffic?	_____	_____	_____
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_____	✓	_____
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	✓	_____	_____
b	Is the casing free of degradation or deterioration?	✓	_____	_____
c	Does the casing have a functioning weep hole?	✓	_____	_____
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓	_____	_____
e	Is the well locked and is the lock in good condition?	✓	_____	_____
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	✓	_____	_____
b	Is the well pad sloped away from the protective casing?	✓	_____	_____
c	Is the well pad in complete contact with the protective casing?	✓	_____	_____
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	✓	_____	_____
e	Is the pad surface clean (not covered with sediment or debris)?	✓	_____	_____
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	✓	_____	_____
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓	_____	_____
c	Is the well properly vented for equilibration of air pressure?	✓	_____	_____
d	Is the survey point clearly marked on the inner casing?	✓	_____	_____
e	Is the depth of the well consistent with the original well log?	✓	_____	_____
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓	_____	_____
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	✓	_____	_____
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	_____	_____	_____
c	Does the well require redevelopment (low flow, turbid)?	_____	✓	_____
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		✓	_____	_____
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID PZ-1
 Date, field conditions 2/15/21 49°/29° rainy

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- need gravel

7 Corrective actions as needed, by date:

Signature and Seal of PE/PG responsible for inspection

Groundwater monitoring well integrity form

Site Name Plant Bowen
 Permit Number _____
 Well ID PZ-2
 Date, field conditions 2/15/21 49°/29° rain

		yes	no	n/a
1 Location/Identification				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?				
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:				

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Base
 Permit Number _____
 Well ID PZ-3
 Date, field conditions 2/19/21, Wind 48°

- 1 Location/Identification**
- | | | yes | no | n/a |
|---|--|-------------------------------------|-------------------------------------|--------------------------|
| a | Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well in a high traffic area and does the well require protection from traffic? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

- 2 Protective Casing**
- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 3 Surface pad**
- | | | | | |
|---|--|-------------------------------------|--------------------------|--------------------------|
| a | Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 4 Internal casing**
- | | | | | |
|---|---|-------------------------------------|--------------------------|--------------------------|
| a | Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c | Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d | Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e | Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f | Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

- 5 Sampling: Groundwater Wells Only:**
- | | | | | |
|---|---|--------------------------|--------------------------|-------------------------------------|
| a | Does well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b | If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c | Does the well require redevelopment (low flow, turbid)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

yes no n/a

7 Corrective actions as needed, by date:

None

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Row 0
 Permit Number -
 Well ID PZ-4
 Date, field conditions 2/15/21, 12:45 4:20

	yes	no	n/a
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Surface pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Internal casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Sampling: Groundwater Wells Only:			
a Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Corrective actions as needed, by date:			
<u>None</u>			

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant B0000
 Permit Number -
 Well ID PZ-5
 Date, field conditions 2/15/2005 Sat 48°

1 Location/Identification

	yes	no	n/a
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2 Protective Casing

a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the well locked and is the lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3 Surface pad

a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4 Internal casing

a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5 Sampling: Groundwater Wells Only:

a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date:

None

Signature and Seal of PE/PG responsible for inspection

Groundwater Monitoring Well Integrity Form

Site Name Plant Boulder
 Permit Number _____
 Well ID PZ-6
 Date, field conditions 2/15/21, 12:45

- 1 Location/Identification**
- | | yes | no | n/a |
|--|-------------------------------------|-------------------------------------|-----|
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | | |
| c Is the well in a high traffic area and does the well require protection from traffic? | <input checked="" type="checkbox"/> | | |
| d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | | <input checked="" type="checkbox"/> | |

- 2 Protective Casing**
- | | | | |
|---|-------------------------------------|--|--|
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | | |
| e Is the well locked and is the lock in good condition? | <input checked="" type="checkbox"/> | | |

- 3 Surface pad**
- | | | | |
|--|-------------------------------------|--|--|
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | | |
| d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) | <input checked="" type="checkbox"/> | | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | | |

- 4 Internal casing**
- | | | | |
|---|-------------------------------------|--|--|
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? | <input checked="" type="checkbox"/> | | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | | |

- 5 Sampling: Groundwater Wells Only:**
- | | | | |
|---|--|--|-------------------------------------|
| a Does well recharge adequately when purged? | | | <input checked="" type="checkbox"/> |
| b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? | | | <input checked="" type="checkbox"/> |
| c Does the well require redevelopment (low flow, turbid)? | | | <input checked="" type="checkbox"/> |

6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?

7 Corrective actions as needed, by date:

Piezometer

Signature and Seal of PE/PG responsible for inspection

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages and Data
Validation Reports

Appendix C2: Field Sampling Forms

APPENDIX C1

Laboratory Analytical Data Packages and Data Validation Reports

Laboratory Reports

December 31, 2020

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92512103001	BGWC-14A	Water	12/15/20 09:42	12/16/20 09:48
92512103002	BGWA-47D	Water	12/15/20 14:38	12/16/20 09:48
92512103003	BGWA-48D	Water	12/15/20 11:56	12/16/20 09:48
92512103004	FBL121520	Water	12/15/20 13:22	12/16/20 09:48
92512103005	EQBL121520	Water	12/15/20 13:23	12/16/20 09:48
92512103006	DUP-1	Water	12/15/20 00:00	12/16/20 09:48

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SAMPLE ANALYTE COUNT

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92512103001	BGWC-14A	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92512103002	BGWA-47D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92512103003	BGWA-48D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92512103004	FBL121520	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92512103005	EQBL121520	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92512103006	DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92512103001	BGWC-14A					
	Performed by	CUSTOMER			12/15/20 09:42	
	Collected By	William L., Joe Booth			12/15/20 09:42	
	Collected Date	12/15/20			12/15/20 09:42	
	Collected Time	09:42			12/15/20 09:42	
	pH	7.02	Std. Units		12/15/20 09:42	
EPA 6010D	Calcium	169	mg/L	1.0	12/17/20 23:49	
EPA 6020B	Barium	0.042	mg/L	0.010	12/23/20 18:43	
EPA 6020B	Boron	1.2	mg/L	0.10	12/23/20 18:43	
EPA 6020B	Cadmium	0.00017J	mg/L	0.0025	12/23/20 18:43	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	12/23/20 18:43	
EPA 6020B	Lead	0.000056J	mg/L	0.0050	12/23/20 18:43	B
EPA 6020B	Lithium	0.00091J	mg/L	0.030	12/23/20 18:43	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	12/23/20 18:43	
EPA 6020B	Thallium	0.00044J	mg/L	0.0010	12/23/20 18:43	
SM 2450C-2011	Total Dissolved Solids	876	mg/L	20.0	12/16/20 13:34	
EPA 300.0 Rev 2.1 1993	Chloride	20.7	mg/L	1.0	12/23/20 05:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	12/23/20 05:39	
EPA 300.0 Rev 2.1 1993	Sulfate	406	mg/L	9.0	12/23/20 09:37	
92512103002	BGWA-47D					
	Performed by	CUSTOMER			12/15/20 14:38	
	Collected By	William L., Joe Booth			12/15/20 14:38	
	Collected Date	12/15/20			12/15/20 14:38	
	Collected Time	14:38			12/15/20 14:38	
	pH	7.04	Std. Units		12/15/20 14:38	
EPA 6010D	Calcium	110	mg/L	1.0	12/17/20 23:55	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	12/23/20 18:49	B
EPA 6020B	Barium	0.059	mg/L	0.010	12/23/20 18:49	
EPA 6020B	Boron	0.031J	mg/L	0.10	12/23/20 18:49	B
EPA 6020B	Chromium	0.00069J	mg/L	0.010	12/23/20 18:49	
EPA 6020B	Lead	0.000080J	mg/L	0.0050	12/23/20 18:49	B
EPA 6020B	Selenium	0.0018J	mg/L	0.010	12/23/20 18:49	
SM 2450C-2011	Total Dissolved Solids	385	mg/L	10.0	12/16/20 13:34	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	12/23/20 06:23	
EPA 300.0 Rev 2.1 1993	Sulfate	78.0	mg/L	1.0	12/23/20 06:23	
92512103003	BGWA-48D					
	Performed by	CUSTOMER			12/15/20 11:56	
	Collected By	William L., Joe Booth			12/15/20 11:56	
	Collected Date	12/15/20			12/15/20 11:56	
	Collected Time	11:56			12/15/20 11:56	
	pH	7.37	Std. Units		12/15/20 11:56	
EPA 6010D	Calcium	70.3	mg/L	1.0	12/18/20 00:01	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	12/23/20 18:54	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92512103003	BGWA-48D					
EPA 6020B	Barium	0.073	mg/L	0.010	12/23/20 18:54	
EPA 6020B	Boron	0.034J	mg/L	0.10	12/23/20 18:54	B
EPA 6020B	Lead	0.00011J	mg/L	0.0050	12/23/20 18:54	B
EPA 6020B	Lithium	0.00089J	mg/L	0.030	12/23/20 18:54	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	12/23/20 18:54	
SM 2450C-2011	Total Dissolved Solids	289	mg/L	10.0	12/16/20 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	8.0	mg/L	1.0	12/23/20 06:38	
EPA 300.0 Rev 2.1 1993	Sulfate	28.3	mg/L	1.0	12/23/20 06:38	
92512103005	EQBL121520					
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	12/28/20 17:26	
92512103006	DUP-1					
EPA 6010D	Calcium	171	mg/L	1.0	12/18/20 00:37	
EPA 6020B	Antimony	0.00047J	mg/L	0.0030	12/28/20 17:32	
EPA 6020B	Barium	0.038	mg/L	0.010	12/28/20 17:32	
EPA 6020B	Boron	1.1	mg/L	0.10	12/28/20 17:32	
EPA 6020B	Cadmium	0.00015J	mg/L	0.0025	12/28/20 17:32	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	12/28/20 17:32	
EPA 6020B	Lithium	0.00083J	mg/L	0.030	12/28/20 17:32	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	12/28/20 17:32	
EPA 6020B	Thallium	0.00041J	mg/L	0.0010	12/28/20 17:32	
SM 2450C-2011	Total Dissolved Solids	437	mg/L	10.0	12/16/20 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	20.7	mg/L	1.0	12/23/20 07:23	
EPA 300.0 Rev 2.1 1993	Sulfate	406	mg/L	9.0	12/23/20 09:52	

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

Sample: BGWC-14A Lab ID: 92512103001 Collected: 12/15/20 09:42 Received: 12/16/20 09:48 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		12/15/20 09:42		
Collected By	William L., Joe Booth				1		12/15/20 09:42		
Collected Date	12/15/20				1		12/15/20 09:42		
Collected Time	09:42				1		12/15/20 09:42		
pH	7.02	Std. Units			1		12/15/20 09:42		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	169	mg/L	1.0	0.070	1	12/17/20 10:10	12/17/20 23:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	12/22/20 07:15	12/23/20 18:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	12/22/20 07:15	12/23/20 18:43	7440-38-2	
Barium	0.042	mg/L	0.010	0.00071	1	12/22/20 07:15	12/23/20 18:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	12/22/20 07:15	12/23/20 18:43	7440-41-7	
Boron	1.2	mg/L	0.10	0.0052	1	12/22/20 07:15	12/23/20 18:43	7440-42-8	
Cadmium	0.00017J	mg/L	0.0025	0.00012	1	12/22/20 07:15	12/23/20 18:43	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	12/22/20 07:15	12/23/20 18:43	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00038	1	12/22/20 07:15	12/23/20 18:43	7440-48-4	
Lead	0.00056J	mg/L	0.0050	0.000036	1	12/22/20 07:15	12/23/20 18:43	7439-92-1	B
Lithium	0.00091J	mg/L	0.030	0.00081	1	12/22/20 07:15	12/23/20 18:43	7439-93-2	
Molybdenum	0.0019J	mg/L	0.010	0.00069	1	12/22/20 07:15	12/23/20 18:43	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	12/22/20 07:15	12/23/20 18:43	7782-49-2	
Thallium	0.00044J	mg/L	0.0010	0.00014	1	12/22/20 07:15	12/23/20 18:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 13:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	876	mg/L	20.0	20.0	1		12/16/20 13:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.7	mg/L	1.0	0.60	1		12/23/20 05:39	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		12/23/20 05:39	16984-48-8	
Sulfate	406	mg/L	9.0	4.5	9		12/23/20 09:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Sample: BGWA-47D		Lab ID: 92512103002		Collected: 12/15/20 14:38	Received: 12/16/20 09:48	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		12/15/20 14:38		
Collected By	William L., Joe Booth				1		12/15/20 14:38		
Collected Date	12/15/20				1		12/15/20 14:38		
Collected Time	14:38				1		12/15/20 14:38		
pH	7.04	Std. Units			1		12/15/20 14:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	110	mg/L	1.0	0.070	1	12/17/20 10:10	12/17/20 23:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00028	1	12/22/20 07:15	12/23/20 18:49	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	12/22/20 07:15	12/23/20 18:49	7440-38-2	
Barium	0.059	mg/L	0.010	0.00071	1	12/22/20 07:15	12/23/20 18:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	12/22/20 07:15	12/23/20 18:49	7440-41-7	
Boron	0.031J	mg/L	0.10	0.0052	1	12/22/20 07:15	12/23/20 18:49	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00012	1	12/22/20 07:15	12/23/20 18:49	7440-43-9	
Chromium	0.00069J	mg/L	0.010	0.00055	1	12/22/20 07:15	12/23/20 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	12/22/20 07:15	12/23/20 18:49	7440-48-4	
Lead	0.000080J	mg/L	0.0050	0.000036	1	12/22/20 07:15	12/23/20 18:49	7439-92-1	B
Lithium	ND	mg/L	0.030	0.00081	1	12/22/20 07:15	12/23/20 18:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	12/22/20 07:15	12/23/20 18:49	7439-98-7	
Selenium	0.0018J	mg/L	0.010	0.0016	1	12/22/20 07:15	12/23/20 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/22/20 07:15	12/23/20 18:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 14:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	385	mg/L	10.0	10.0	1		12/16/20 13:34		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		12/23/20 06:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		12/23/20 06:23	16984-48-8	
Sulfate	78.0	mg/L	1.0	0.50	1		12/23/20 06:23	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
 Pace Project No.: 92512103

Sample: BGWA-48D **Lab ID: 92512103003** Collected: 12/15/20 11:56 Received: 12/16/20 09:48 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		12/15/20 11:56		
Collected By	William L., Joe Booth				1		12/15/20 11:56		
Collected Date	12/15/20				1		12/15/20 11:56		
Collected Time	11:56				1		12/15/20 11:56		
pH	7.37	Std. Units			1		12/15/20 11:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	70.3	mg/L	1.0	0.070	1	12/17/20 10:10	12/18/20 00:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00028	1	12/22/20 07:15	12/23/20 18:54	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	12/22/20 07:15	12/23/20 18:54	7440-38-2	
Barium	0.073	mg/L	0.010	0.00071	1	12/22/20 07:15	12/23/20 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	12/22/20 07:15	12/23/20 18:54	7440-41-7	
Boron	0.034J	mg/L	0.10	0.0052	1	12/22/20 07:15	12/23/20 18:54	7440-42-8	B
Cadmium	ND	mg/L	0.0025	0.00012	1	12/22/20 07:15	12/23/20 18:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	12/22/20 07:15	12/23/20 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	12/22/20 07:15	12/23/20 18:54	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	12/22/20 07:15	12/23/20 18:54	7439-92-1	B
Lithium	0.00089J	mg/L	0.030	0.00081	1	12/22/20 07:15	12/23/20 18:54	7439-93-2	
Molybdenum	0.0021J	mg/L	0.010	0.00069	1	12/22/20 07:15	12/23/20 18:54	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	12/22/20 07:15	12/23/20 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	12/22/20 07:15	12/23/20 18:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 14:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	289	mg/L	10.0	10.0	1		12/16/20 13:35		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.0	mg/L	1.0	0.60	1		12/23/20 06:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		12/23/20 06:38	16984-48-8	
Sulfate	28.3	mg/L	1.0	0.50	1		12/23/20 06:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Sample: FBL121520		Lab ID: 92512103004		Collected: 12/15/20 13:22	Received: 12/16/20 09:48	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	12/17/20 10:10	12/18/20 00:25	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	12/24/20 10:19	12/28/20 17:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	12/24/20 10:19	12/28/20 17:03	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	12/24/20 10:19	12/28/20 17:03	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	12/24/20 10:19	12/28/20 17:03	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	12/24/20 10:19	12/28/20 17:03	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	12/24/20 10:19	12/28/20 17:03	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	12/24/20 10:19	12/28/20 17:03	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	12/24/20 10:19	12/28/20 17:03	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	12/24/20 10:19	12/28/20 17:03	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	12/24/20 10:19	12/28/20 17:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	12/24/20 10:19	12/28/20 17:03	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	12/24/20 10:19	12/28/20 17:03	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/20 10:19	12/28/20 17:03	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 14:05	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		12/16/20 13:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		12/23/20 06:53	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		12/23/20 06:53	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		12/23/20 06:53	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Sample: EQBL121520		Lab ID: 92512103005		Collected: 12/15/20 13:23		Received: 12/16/20 09:48		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	12/17/20 10:10	12/18/20 00:31	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0012J	mg/L	0.0030	0.00028	1	12/24/20 10:19	12/28/20 17:26	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	12/24/20 10:19	12/28/20 17:26	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	12/24/20 10:19	12/28/20 17:26	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	12/24/20 10:19	12/28/20 17:26	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	12/24/20 10:19	12/28/20 17:26	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	12/24/20 10:19	12/28/20 17:26	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	12/24/20 10:19	12/28/20 17:26	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	12/24/20 10:19	12/28/20 17:26	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	12/24/20 10:19	12/28/20 17:26	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	12/24/20 10:19	12/28/20 17:26	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	12/24/20 10:19	12/28/20 17:26	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	12/24/20 10:19	12/28/20 17:26	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	12/24/20 10:19	12/28/20 17:26	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 14:12	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		12/16/20 13:35			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		12/23/20 07:08	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		12/23/20 07:08	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		12/23/20 07:08	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Sample: DUP-1		Lab ID: 92512103006		Collected: 12/15/20 00:00	Received: 12/16/20 09:48	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	171	mg/L	1.0	0.070	1	12/17/20 10:10	12/18/20 00:37	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.00047J	mg/L	0.0030	0.00028	1	12/24/20 10:19	12/28/20 17:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	12/24/20 10:19	12/28/20 17:32	7440-38-2	
Barium	0.038	mg/L	0.010	0.00071	1	12/24/20 10:19	12/28/20 17:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	12/24/20 10:19	12/28/20 17:32	7440-41-7	
Boron	1.1	mg/L	0.10	0.0052	1	12/24/20 10:19	12/28/20 17:32	7440-42-8	
Cadmium	0.00015J	mg/L	0.0025	0.00012	1	12/24/20 10:19	12/28/20 17:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	12/24/20 10:19	12/28/20 17:32	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	12/24/20 10:19	12/28/20 17:32	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	12/24/20 10:19	12/28/20 17:32	7439-92-1	
Lithium	0.00083J	mg/L	0.030	0.00081	1	12/24/20 10:19	12/28/20 17:32	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00069	1	12/24/20 10:19	12/28/20 17:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	12/24/20 10:19	12/28/20 17:32	7782-49-2	
Thallium	0.00041J	mg/L	0.0010	0.00014	1	12/24/20 10:19	12/28/20 17:32	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00050	0.000078	1	12/18/20 08:35	12/18/20 14:14	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	437	mg/L	10.0	10.0	1		12/16/20 13:35		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	20.7	mg/L	1.0	0.60	1		12/23/20 07:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		12/23/20 07:23	16984-48-8	
Sulfate	406	mg/L	9.0	4.5	9		12/23/20 09:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

QC Batch: 587757 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

METHOD BLANK: 3106013 Matrix: Water
Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	12/17/20 22:24	

LABORATORY CONTROL SAMPLE: 3106014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106015 3106016

Parameter	Units	92510829003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	90.5	1	1	88.9	89.0	-151	-150	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

QC Batch: 588640 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92512103001, 92512103002, 92512103003

METHOD BLANK: 3110198 Matrix: Water

Associated Lab Samples: 92512103001, 92512103002, 92512103003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00032J	0.0030	0.00028	12/23/20 15:02	
Arsenic	mg/L	ND	0.0050	0.00078	12/23/20 15:02	
Barium	mg/L	ND	0.010	0.00071	12/23/20 15:02	
Beryllium	mg/L	0.000058J	0.0030	0.000046	12/23/20 15:02	
Boron	mg/L	0.0055J	0.10	0.0052	12/23/20 15:02	
Cadmium	mg/L	ND	0.0025	0.00012	12/23/20 15:02	
Chromium	mg/L	ND	0.010	0.00055	12/23/20 15:02	
Cobalt	mg/L	ND	0.0050	0.00038	12/23/20 15:02	
Lead	mg/L	0.000065J	0.0050	0.000036	12/23/20 15:02	
Lithium	mg/L	ND	0.030	0.00081	12/23/20 15:02	
Molybdenum	mg/L	ND	0.010	0.00069	12/23/20 15:02	
Selenium	mg/L	ND	0.010	0.0016	12/23/20 15:02	
Thallium	mg/L	ND	0.0010	0.00014	12/23/20 15:02	

LABORATORY CONTROL SAMPLE: 3110199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3110200 3110201

Parameter	Units	92511412041 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	110	75-125	7	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Parameter	Units	3110200		3110201		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92511412041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	58.7 ug/L	0.1	0.1	0.16	0.17	103	110	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.092	0.10	92	101	75-125	9	20		
Boron	mg/L	46.7 ug/L	1	1	0.95	1.0	91	98	75-125	7	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	104	75-125	6	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.12	92	102	75-125	9	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	108	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	103	75-125	6	20		

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

QC Batch: 589337 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92512103004, 92512103005, 92512103006

METHOD BLANK: 3113101 Matrix: Water
Associated Lab Samples: 92512103004, 92512103005, 92512103006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	12/28/20 16:52	
Arsenic	mg/L	ND	0.0050	0.00078	12/28/20 16:52	
Barium	mg/L	ND	0.010	0.00071	12/28/20 16:52	
Beryllium	mg/L	ND	0.0030	0.000046	12/28/20 16:52	
Boron	mg/L	ND	0.10	0.0052	12/28/20 16:52	
Cadmium	mg/L	ND	0.0025	0.00012	12/28/20 16:52	
Chromium	mg/L	ND	0.010	0.00055	12/28/20 16:52	
Cobalt	mg/L	ND	0.0050	0.00038	12/28/20 16:52	
Lead	mg/L	ND	0.0050	0.000036	12/28/20 16:52	
Lithium	mg/L	ND	0.030	0.00081	12/28/20 16:52	
Molybdenum	mg/L	ND	0.010	0.00069	12/28/20 16:52	
Selenium	mg/L	ND	0.010	0.0016	12/28/20 16:52	
Thallium	mg/L	ND	0.0010	0.00014	12/28/20 16:52	

LABORATORY CONTROL SAMPLE: 3113102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3113103 3113104

Parameter	Units	92512103004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

Parameter	Units	3113103		3113104		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92512103004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20		
Boron	mg/L	ND	1	1	0.92	0.95	91	95	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.094	0.099	94	99	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.089	0.091	89	91	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.091	0.094	91	94	75-125	3	20		

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

QC Batch: 587972

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

METHOD BLANK: 3107202

Matrix: Water

Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	12/18/20 13:15	

LABORATORY CONTROL SAMPLE: 3107203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3107204 3107205

Parameter	Units	3107204		3107205		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0026	0.0026	103	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

QC Batch: 587413 Analysis Method: SM 2450C-2011
 QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

METHOD BLANK: 3104376 Matrix: Water
 Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	12/16/20 13:31	

LABORATORY CONTROL SAMPLE: 3104377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	401	100	84-108	

SAMPLE DUPLICATE: 3104378

Parameter	Units	92512071001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	83.0	80.0	4	10	

SAMPLE DUPLICATE: 3104379

Parameter	Units	92512103003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	289	299	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

QC Batch: 588917 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

METHOD BLANK: 3111308 Matrix: Water
 Associated Lab Samples: 92512103001, 92512103002, 92512103003, 92512103004, 92512103005, 92512103006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	12/23/20 01:10	
Fluoride	mg/L	ND	0.10	0.050	12/23/20 01:10	
Sulfate	mg/L	ND	1.0	0.50	12/23/20 01:10	

LABORATORY CONTROL SAMPLE: 3111309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.3	105	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111312 3111313

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92512086002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	7.3	50	50	62.7	63.6	111	113	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	106	90-110	1	10		
Sulfate	mg/L	20.6	50	50	75.5	76.1	110	111	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111354 3111355

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92510010001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	2.1	50	50	57.0	57.8	110	112	90-110	1	10	M1	
Fluoride	mg/L	0.062J	2.5	2.5	2.7	2.7	105	106	90-110	0	10		
Sulfate	mg/L	0.60J	50	50	54.5	55.4	108	110	90-110	1	10		

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QUALIFIERS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92512103

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92512103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512103001	BGWC-14A				
92512103002	BGWA-47D				
92512103003	BGWA-48D				
92512103001	BGWC-14A	EPA 3010A	587757	EPA 6010D	587879
92512103002	BGWA-47D	EPA 3010A	587757	EPA 6010D	587879
92512103003	BGWA-48D	EPA 3010A	587757	EPA 6010D	587879
92512103004	FBL121520	EPA 3010A	587757	EPA 6010D	587879
92512103005	EQBL121520	EPA 3010A	587757	EPA 6010D	587879
92512103006	DUP-1	EPA 3010A	587757	EPA 6010D	587879
92512103001	BGWC-14A	EPA 3005A	588640	EPA 6020B	588761
92512103002	BGWA-47D	EPA 3005A	588640	EPA 6020B	588761
92512103003	BGWA-48D	EPA 3005A	588640	EPA 6020B	588761
92512103004	FBL121520	EPA 3005A	589337	EPA 6020B	589405
92512103005	EQBL121520	EPA 3005A	589337	EPA 6020B	589405
92512103006	DUP-1	EPA 3005A	589337	EPA 6020B	589405
92512103001	BGWC-14A	EPA 7470A	587972	EPA 7470A	588144
92512103002	BGWA-47D	EPA 7470A	587972	EPA 7470A	588144
92512103003	BGWA-48D	EPA 7470A	587972	EPA 7470A	588144
92512103004	FBL121520	EPA 7470A	587972	EPA 7470A	588144
92512103005	EQBL121520	EPA 7470A	587972	EPA 7470A	588144
92512103006	DUP-1	EPA 7470A	587972	EPA 7470A	588144
92512103001	BGWC-14A	SM 2450C-2011	587413		
92512103002	BGWA-47D	SM 2450C-2011	587413		
92512103003	BGWA-48D	SM 2450C-2011	587413		
92512103004	FBL121520	SM 2450C-2011	587413		
92512103005	EQBL121520	SM 2450C-2011	587413		
92512103006	DUP-1	SM 2450C-2011	587413		
92512103001	BGWC-14A	EPA 300.0 Rev 2.1 1993	588917		
92512103002	BGWA-47D	EPA 300.0 Rev 2.1 1993	588917		
92512103003	BGWA-48D	EPA 300.0 Rev 2.1 1993	588917		
92512103004	FBL121520	EPA 300.0 Rev 2.1 1993	588917		
92512103005	EQBL121520	EPA 300.0 Rev 2.1 1993	588917		
92512103006	DUP-1	EPA 300.0 Rev 2.1 1993	588917		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: B. Power

Project #: **WO# : 92512103**



92512103

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 12/6/20
COH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.4

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92512103

PM: KLH1

Due Date: 12/31/20

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

BPTN
 9/27/20
 9/27/20

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

January 11, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92512098

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92512098001	BGWC-14A	Water	12/15/20 09:42	12/16/20 09:48
92512098002	BGWA-47D	Water	12/15/20 14:38	12/16/20 09:48
92512098003	BGWA-48D	Water	12/15/20 11:56	12/16/20 09:48
92512098004	FBL121520	Water	12/15/20 13:22	12/16/20 09:48
92512098005	EQBL121520	Water	12/15/20 13:23	12/16/20 09:48
92512098006	DUP-1	Water	12/15/20 00:00	12/16/20 09:48

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512098001	BGWC-14A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92512098002	BGWA-47D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92512098003	BGWA-48D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92512098004	FBL121520	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92512098005	EQBL121520	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92512098006	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92512098

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92512098001	BGWC-14A					
EPA 9315	Radium-226	0.257 ± 0.176 (0.310) C:86% T:NA	pCi/L		01/05/21 17:44	
EPA 9320	Radium-228	1.00 ± 0.492 (0.863) C:69% T:82%	pCi/L		01/04/21 11:28	
Total Radium Calculation	Total Radium	1.26 ± 0.668 (1.17)	pCi/L		01/06/21 14:32	
92512098002	BGWA-47D					
EPA 9315	Radium-226	0.0683 ± 0.235 (0.469) C:74% T:NA	pCi/L		01/05/21 17:24	
EPA 9320	Radium-228	0.195 ± 0.417 (0.921) C:74% T:80%	pCi/L		01/04/21 11:28	
Total Radium Calculation	Total Radium	0.263 ± 0.652 (1.39)	pCi/L		01/06/21 14:32	
92512098003	BGWA-48D					
EPA 9315	Radium-226	0.189 ± 0.135 (0.234) C:87% T:NA	pCi/L		01/05/21 17:24	
EPA 9320	Radium-228	0.275 ± 0.356 (0.756) C:70% T:77%	pCi/L		01/04/21 11:28	
Total Radium Calculation	Total Radium	0.464 ± 0.491 (0.990)	pCi/L		01/06/21 14:32	
92512098004	FBL121520					
EPA 9315	Radium-226	0.122 ± 0.0906 (0.152) C:91% T:NA	pCi/L		01/05/21 17:31	
EPA 9320	Radium-228	0.407 ± 0.443 (0.927) C:66% T:81%	pCi/L		01/04/21 11:28	
Total Radium Calculation	Total Radium	0.529 ± 0.534 (1.08)	pCi/L		01/06/21 14:32	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92512098005	EQBL121520					
EPA 9315	Radium-226	0.144 ± 0.209 (0.448) C:94% T:NA	pCi/L		01/06/21 06:58	
EPA 9320	Radium-228	0.508 ± 0.402 (0.798) C:70% T:84%	pCi/L		01/04/21 11:29	
Total Radium Calculation	Total Radium	0.652 ± 0.611 (1.25)	pCi/L		01/06/21 14:32	
92512098006	DUP-1					
EPA 9315	Radium-226	0.779 ± 0.495 (0.885) C:77% T:NA	pCi/L		01/06/21 06:58	
EPA 9320	Radium-228	0.197 ± 0.336 (0.733) C:70% T:91%	pCi/L		01/04/21 11:29	
Total Radium Calculation	Total Radium	0.976 ± 0.831 (1.62)	pCi/L		01/06/21 14:32	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-14A Lab ID: 92512098001 Collected: 12/15/20 09:42 Received: 12/16/20 09:48 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.257 ± 0.176 (0.310) C:86% T:NA	pCi/L	01/05/21 17:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.00 ± 0.492 (0.863) C:69% T:82%	pCi/L	01/04/21 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.26 ± 0.668 (1.17)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-47D Lab ID: 92512098002 Collected: 12/15/20 14:38 Received: 12/16/20 09:48 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0683 ± 0.235 (0.469) C:74% T:NA	pCi/L	01/05/21 17:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.195 ± 0.417 (0.921) C:74% T:80%	pCi/L	01/04/21 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.263 ± 0.652 (1.39)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-48D Lab ID: 92512098003 Collected: 12/15/20 11:56 Received: 12/16/20 09:48 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.189 ± 0.135 (0.234) C:87% T:NA	pCi/L	01/05/21 17:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.275 ± 0.356 (0.756) C:70% T:77%	pCi/L	01/04/21 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.464 ± 0.491 (0.990)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL121520 Lab ID: 92512098004 Collected: 12/15/20 13:22 Received: 12/16/20 09:48 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.122 ± 0.0906 (0.152) C:91% T:NA	pCi/L	01/05/21 17:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.407 ± 0.443 (0.927) C:66% T:81%	pCi/L	01/04/21 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.529 ± 0.534 (1.08)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL121520 Lab ID: 92512098005 Collected: 12/15/20 13:23 Received: 12/16/20 09:48 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.144 ± 0.209 (0.448) C:94% T:NA	pCi/L	01/06/21 06:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.508 ± 0.402 (0.798) C:70% T:84%	pCi/L	01/04/21 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.652 ± 0.611 (1.25)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

Sample: DUP-1 **Lab ID: 92512098006** Collected: 12/15/20 00:00 Received: 12/16/20 09:48 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.779 ± 0.495 (0.885) C:77% T:NA	pCi/L	01/06/21 06:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.197 ± 0.336 (0.733) C:70% T:91%	pCi/L	01/04/21 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.976 ± 0.831 (1.62)	pCi/L	01/06/21 14:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

QC Batch:	429175	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92512098001, 92512098002, 92512098003, 92512098004, 92512098005, 92512098006

METHOD BLANK: 2073293 Matrix: Water

Associated Lab Samples: 92512098001, 92512098002, 92512098003, 92512098004, 92512098005, 92512098006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.176 ± 0.138 (0.246) C:97% T:NA	pCi/L	01/05/21 17:40	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92512098

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92512098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512098001	BGWC-14A	EPA 9315	429175		
92512098002	BGWA-47D	EPA 9315	429175		
92512098003	BGWA-48D	EPA 9315	429175		
92512098004	FBL121520	EPA 9315	429175		
92512098005	EQBL121520	EPA 9315	429175		
92512098006	DUP-1	EPA 9315	429175		
92512098001	BGWC-14A	EPA 9320	428749		
92512098002	BGWA-47D	EPA 9320	428749		
92512098003	BGWA-48D	EPA 9320	428749		
92512098004	FBL121520	EPA 9320	428749		
92512098005	EQBL121520	EPA 9320	428749		
92512098006	DUP-1	EPA 9320	428749		
92512098001	BGWC-14A	Total Radium Calculation	429860		
92512098002	BGWA-47D	Total Radium Calculation	429860		
92512098003	BGWA-48D	Total Radium Calculation	429860		
92512098004	FBL121520	Total Radium Calculation	429860		
92512098005	EQBL121520	Total Radium Calculation	429860		
92512098006	DUP-1	Total Radium Calculation	429860		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: B. Power

Project # **WO# : 92512098**



92512098

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 12/6/20
COY

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.4

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>W</u>	9.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92512098

PM: KLH1

Due Date: 01/08/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A[DG3A]-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

BPIN
 SP2T-250 mL Sterile Plastic (N/A - lab)
 SP5T-125 mL Sterile Plastic (N/A - lab)

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

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

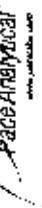
Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	
Address:	1003 Weatherstone Parkway Woodstock, GA 30188	Copy To:	Geosynthetic Contacts	Company Name:	
Email To:	(678)548-9415 Fax	Purchase Order #:		Address:	
Phone:		Project Name:	Plant Bowen AP-1 Background	Person Quote:	
Requested Due Date:	Standard	Project Number:		Person Project Manager:	Kevin Herring
				Face Profile #:	10844
				Requested Analysis Filtered (Y/N)	
				Regulatory Agency	
				State / Location	

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH 7.02	pH 7.04	pH 7.37
			START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other							
1	BGWC-14A	WT G	12/15/20	0942		5	2	3												
2	BGWA-47D	WT G	12/15/20	1438		5	2	3												
3	BGWA-48D	WT G	12/15/20	1156		5	2	3												
4	FBL 121520	WT G	12/15/20	1322		5	2	3												
6	EOBL 121520	WT G	12/15/20	1323		5	2	3												
6	DUP-1	WT G	12/15/20	--		5	2	3												
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
		William Locker / Resolute		12/16/20	0948	William Locker / Resolute		12/15/20	0948	TEMP in C	Received on ice (Y/N)
										Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: William Locker, Joe Booth
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: 12/15/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 1/15/2021
Worklist: 58133
Matrix: DW

Method Blank Assessment	
MB Sample ID	2073293
MB concentration:	0.176
MB Counting Uncertainty:	0.125
MB WADC:	0.246
MB Numerical Performance Indicator:	2.65
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	LCS# of N?		N
	LCS58138	LCS59138	
Decay Corrected Spike Concentration (pCi/mL): Spike I.D.: Volume Used (mL): Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Uncertainty (Calculated): Result (pCi/L, g, F): Numerical Performance Indicator:	1/6/2021		
	18-033	24-041	
	0.10	0.515	
	4.669	0.056	
	4.726	0.782	
	101.21%	N/A	
	Pass	125%	
Lower % Recovery Limit:	75%		

Duplicate Sample Assessment	Enter duplicate sample IDs if other than LCS/LCSD in the space below:	
	92512557001	92512557021
Sample I.D.:	92512557001	92512557021
Duplicate Sample I.D.:	92512557007 DUP	
Sample Result (pCi/L, g, F):	0.259	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.248	
Sample Duplicate Result (pCi/L, g, F):	0.181	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.219	
Are sample and/or duplicate results below RL?	0.259	
Duplicate Numerical Performance Indicator:	30.10%	
Duplicate RPD:	N/A	
Duplicate Status vs Numerical Indicator:	Fail	
Duplicate Status vs RPD:	32%	
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

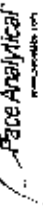
***Batch number 187E-3171996 does not have acceptable precision. N/A

N/A
1-16-2021

N/A
1-16-2021

N/A
1/16/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 1/5/2021
Worklist: 58138
Matrix: DW

Method Blank Assessment	
MB Sample ID	2073338
MB Concentration	0.176
MB Counting Uncertainty	0.135
MB MDC	0.246
MB Numerical Performance Indicator	2.56
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment	LCS# of N?	
	LCS#	Y
Count Date	1/5/2021	LCS#58138
Spike I.D.	19-033	19-033
Dilute Corrected Spike Concentration (pCi/ml.)	24.041	24.041
Volume Used (ml.)	0.10	0.10
Aliquot Volume (l., g. F.)	0.515	0.507
Target Conc. (pCi/l., g. F.)	4.669	4.743
Uncertainty (Calculated)	0.066	0.067
Result (pCi/l., g. F.)	4.728	4.173
Counting Uncertainty (pCi/l., g. F.)	0.782	0.736
Numerical Performance Indicator	0.14	1.51
Percent Recovery	101.21%	87.98%
Status vs Numerical Indicator	N/A	N/A
Status vs Recovery	Pass	Pass
Upper % Recovery Limit	125%	125%
Lower % Recovery Limit	75%	75%

Duplicate Sample Assessment	Duplicate Status vs RPD	% RPD Limit
Sample I.D.	LCS#58138	Pass
Duplicate Sample I.D.	LCS#58138	25%
Sample Result Counting Uncertainty (pCi/l., g. F.)	4.728	
Sample Duplicate Counting Uncertainty (pCi/l., g. F.)	0.782	
Sample Result Counting Uncertainty (pCi/l., g. F.)	4.173	
Sample Duplicate Counting Uncertainty (pCi/l., g. F.)	0.736	
Ave. sample and/or duplicate results below RCP	NO	
Duplicate Numerical Performance Indicator	1.028	
Duplicate Percent Recovery	13.89%	
Duplicate Status vs Numerical Indicator	N/A	
Duplicate Status vs RPD	Pass	
% RPD Limit	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

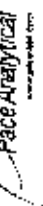
1-6-2021
MRS

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.		
MS/MSD Dilute Corrected Spike Concentration (pCi/ml.) Spike Volume Used in MS (ml.) Spike Volume Used in MSD (ml.) MS Aliquot (l., g. F.) MS Target Conc. (pCi/l., g. F.) MSD Aliquot (l., g. F.) MSD Target Conc. (pCi/l., g. F.) MS Spike Uncertainty (Calculated) MSD Spike Uncertainty (Calculated)		
Sample Result Counting Uncertainty (pCi/l., g. F.) Sample Matrix Spike Result Matrix Spike Result Counting Uncertainty (pCi/l., g. F.) Sample Matrix Spike Duplicate Result Matrix Spike Duplicate Result Counting Uncertainty (pCi/l., g. F.) MS Numerical Performance Indicator MSD Numerical Performance Indicator MS Percent Recovery MSD Percent Recovery MS Status vs Numerical Indicator MSD Status vs Numerical Indicator MS Status vs Recovery MSD Status vs Recovery MS/MSD Upper % Recovery Limit MS/MSD Lower % Recovery Limit		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result Counting Uncertainty (pCi/l., g. F.) Sample Matrix Spike Duplicate Result Matrix Spike Duplicate Result Counting Uncertainty (pCi/l., g. F.) Duplicate Numerical Performance Indicator Duplicate Percent Recovery MS/MSD Duplicate Status vs Numerical Indicator MS/MSD Duplicate Status vs RPD % RPD Limit

1/1/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: **RA-228**
 Analyst: **VAL**
 Date: **12/30/2021**
 Worklist: **58094**
 Matrix: **WC**

Method Blank Assessment	
MB Sample ID	2071921
MB Concentration:	-0.161
MB 2 Sigma CSU:	0.312
MB MDC:	0.758
MB Numerical Performance Indicator:	-1.01
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	11/6/2021
Spike ID:	20-030
Diluted Connected Spike Concentration (pCi/mL):	37.015
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.825
Target Conc. (pCi/L, g, F):	4.488
Uncertainty (Calculated):	0.220
Result (pCi/L, g, F):	5.637
LC50, LSD 2 Sigma CSU (pCi/L, g, F):	1.278
Numerical Performance Indicator:	1.73
Percent Recovery:	125.39%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	80%

Duplicate Sample Assessment	
Sample ID:	LC58094
Duplicate Sample ID:	LCSD58094
Sample Result (pCi/L, g, F):	5.637
Sample Duplicate Result (pCi/L, g, F):	1.278
Sample Duplicate Result (pCi/L, g, F):	5.675
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.293
Are sample and/or duplicate results below RLO?	NO
Duplicate Numerical Performance Indicator:	-0.041
(Based on the LC50, LSD Percent Recoveries) Duplicate RPD:	0.65%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MSMSD 1	MSMSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MSMSD Dose/ Connected Spike Concentration (pCi/mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated):	Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MSMSD Upper % Recovery Limit: MSMSD Lower % Recovery Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

January 08, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Dear Kelley Sharpe:

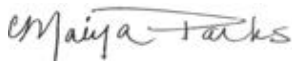
Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92514909001	EC-1.61	Water	01/05/21 11:55	01/05/21 16:46
92514909002	EC-1.13	Water	01/05/21 12:20	01/05/21 16:46
92514909003	EC-0.75	Water	01/05/21 12:30	01/05/21 16:46
92514909004	EC-0.72	Water	01/05/21 12:45	01/05/21 16:46
92514909005	EC-0	Water	01/05/21 13:07	01/05/21 16:46
92514909006	EC+0.5	Water	01/05/21 13:20	01/05/21 16:46

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SAMPLE ANALYTE COUNT

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514909001	EC-1.61	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92514909002	EC-1.13	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92514909003	EC-0.75	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92514909004	EC-0.72	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92514909005	EC-0	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92514909006	EC+0.5	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	1	PASI-GA
		SM 2450C-2011	AW1	1	PASI-GA
		SM 2320B-2011	ECH	2	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

Sample: EC-1.61	Lab ID: 92514909001	Collected: 01/05/21 11:55		Received: 01/05/21 16:46		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	01/06/21 10:16	01/06/21 15:55	7440-09-7	
Sodium	2.9	mg/L	1.0	1	01/06/21 10:16	01/06/21 15:55	7440-23-5	
Calcium	31.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 15:55	7440-70-2	
Magnesium	9.8	mg/L	0.050	1	01/06/21 10:16	01/06/21 15:55	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.042	mg/L	0.040	1	01/06/21 10:07	01/06/21 17:44	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	145	mg/L	10.0	1		01/06/21 12:59		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	117	mg/L	5.0	1		01/06/21 17:36		
Alkalinity, Total as CaCO ₃	117	mg/L	5.0	1		01/06/21 17:36		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	5.4	mg/L	1.0	1		01/07/21 11:07	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 11:07	16984-48-8	M1
Sulfate	6.4	mg/L	1.0	1		01/07/21 11:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Sample: EC-1.13	Lab ID: 92514909002	Collected: 01/05/21 12:20		Received: 01/05/21 16:46		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.5	mg/L	0.20	1	01/06/21 10:16	01/06/21 16:00	7440-09-7	
Sodium	3.1	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:00	7440-23-5	
Calcium	32.8	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:00	7440-70-2	M1
Magnesium	10.4	mg/L	0.050	1	01/06/21 10:16	01/06/21 16:00	7439-95-4	M1
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.044	mg/L	0.040	1	01/06/21 10:07	01/06/21 18:07	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	148	mg/L	10.0	1		01/06/21 12:59		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	118	mg/L	5.0	1		01/06/21 18:03		
Alkalinity, Total as CaCO ₃	118	mg/L	5.0	1		01/06/21 18:03		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	5.5	mg/L	1.0	1		01/07/21 11:49	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 11:49	16984-48-8	
Sulfate	6.3	mg/L	1.0	1		01/07/21 11:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Sample: EC-0.75	Lab ID: 92514909003	Collected: 01/05/21 12:30	Received: 01/05/21 16:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	01/06/21 10:16	01/06/21 16:46	7440-09-7	
Sodium	3.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:46	7440-23-5	
Calcium	31.6	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:46	7440-70-2	
Magnesium	9.9	mg/L	0.050	1	01/06/21 10:16	01/06/21 16:46	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.045	mg/L	0.040	1	01/06/21 10:07	01/06/21 18:13	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	145	mg/L	10.0	1		01/06/21 13:00		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	113	mg/L	5.0	1		01/06/21 18:14		
Alkalinity, Total as CaCO ₃	113	mg/L	5.0	1		01/06/21 18:14		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	5.6	mg/L	1.0	1		01/07/21 12:03	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 12:03	16984-48-8	
Sulfate	6.5	mg/L	1.0	1		01/07/21 12:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Sample: EC-0.72	Lab ID: 92514909004	Collected: 01/05/21 12:45	Received: 01/05/21 16:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	01/06/21 10:16	01/06/21 16:51	7440-09-7	
Sodium	3.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:51	7440-23-5	
Calcium	31.3	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:51	7440-70-2	
Magnesium	9.6	mg/L	0.050	1	01/06/21 10:16	01/06/21 16:51	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	0.040	mg/L	0.040	1	01/06/21 10:07	01/06/21 18:19	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	147	mg/L	10.0	1		01/06/21 13:00		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	113	mg/L	5.0	1		01/06/21 18:24		
Alkalinity, Total as CaCO ₃	113	mg/L	5.0	1		01/06/21 18:24		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	5.5	mg/L	1.0	1		01/07/21 12:17	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 12:17	16984-48-8	
Sulfate	6.2	mg/L	1.0	1		01/07/21 12:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

Sample: EC-0	Lab ID: 92514909005	Collected: 01/05/21 13:07		Received: 01/05/21 16:46		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	01/06/21 10:16	01/06/21 16:55	7440-09-7	
Sodium	3.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:55	7440-23-5	
Calcium	31.1	mg/L	1.0	1	01/06/21 10:16	01/06/21 16:55	7440-70-2	
Magnesium	9.5	mg/L	0.050	1	01/06/21 10:16	01/06/21 16:55	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/06/21 10:07	01/06/21 18:25	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	135	mg/L	10.0	1		01/06/21 13:00		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	114	mg/L	5.0	1		01/06/21 18:34		
Alkalinity, Total as CaCO ₃	114	mg/L	5.0	1		01/06/21 18:34		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.6	mg/L	1.0	1		01/07/21 12:31	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 12:31	16984-48-8	
Sulfate	5.4	mg/L	1.0	1		01/07/21 12:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Sample: EC+0.5	Lab ID: 92514909006	Collected: 01/05/21 13:20	Received: 01/05/21 16:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	01/06/21 10:16	01/06/21 17:00	7440-09-7	
Sodium	3.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 17:00	7440-23-5	
Calcium	31.0	mg/L	1.0	1	01/06/21 10:16	01/06/21 17:00	7440-70-2	
Magnesium	9.6	mg/L	0.050	1	01/06/21 10:16	01/06/21 17:00	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	01/06/21 10:07	01/06/21 18:42	7440-42-8	
2540C Total Dissolved Solids								
Analytical Method: SM 2450C-2011								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	140	mg/L	10.0	1		01/06/21 13:00		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	114	mg/L	5.0	1		01/06/21 18:54		
Alkalinity, Total as CaCO ₃	114	mg/L	5.0	1		01/06/21 18:54		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	1		01/07/21 12:45	16887-00-6	
Fluoride	ND	mg/L	0.10	1		01/07/21 12:45	16984-48-8	
Sulfate	5.0	mg/L	1.0	1		01/07/21 12:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

QC Batch: 590910 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

METHOD BLANK: 3119563 Matrix: Water
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	01/06/21 15:45	
Magnesium	mg/L	ND	0.050	01/06/21 15:45	
Potassium	mg/L	ND	0.20	01/06/21 15:45	
Sodium	mg/L	ND	1.0	01/06/21 15:45	

LABORATORY CONTROL SAMPLE: 3119564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.98J	98	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.1	110	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119565 3119566

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92514909002 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	32.8	1	1	32.5	32.4	-37	-42	75-125	0	20 M1
Magnesium	mg/L	10.4	1	1	11.0	10.9	63	49	75-125	1	20 M1
Potassium	mg/L	1.5	1	1	2.4	2.4	94	90	75-125	1	20
Sodium	mg/L	3.1	1	1	3.9	3.9	88	86	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

QC Batch: 590909 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

METHOD BLANK: 3119546 Matrix: Water
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	01/06/21 17:33	

LABORATORY CONTROL SAMPLE: 3119547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119548 3119549

Parameter	Units	3119548		3119549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	0.042	1	1	0.96	0.99	92	95	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

QC Batch:	590962	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

METHOD BLANK: 3119828

Matrix: Water

Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	01/06/21 12:58	

LABORATORY CONTROL SAMPLE: 3119829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	84-108	

SAMPLE DUPLICATE: 3119830

Parameter	Units	92514909001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	145	140	4	10	

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

QC Batch: 590920 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

METHOD BLANK: 3119636 Matrix: Water
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	01/06/21 17:23	
Alkalinity, Bicarbonate (CaCO ₃)	mg/L	ND	5.0	01/06/21 17:23	

LABORATORY CONTROL SAMPLE: 3119637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119640 3119641

Parameter	Units	92514623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	ND	50	50	43.1	43.0	86	86	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120673 3120674

Parameter	Units	92514909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	117	50	50	165	170	96	104	80-120	2	25	

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

QC Batch: 590998 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

METHOD BLANK: 3120029 Matrix: Water
Associated Lab Samples: 92514909001, 92514909002, 92514909003, 92514909004, 92514909005, 92514909006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	01/07/21 10:39	
Fluoride	mg/L	ND	0.10	01/07/21 10:39	
Sulfate	mg/L	ND	1.0	01/07/21 10:39	

LABORATORY CONTROL SAMPLE: 3120030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120031 3120032

Parameter	Units	92514909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	56.7	56.9	103	103	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.2	89	89	90-110	0	10	M1
Sulfate	mg/L	6.4	50	50	57.0	57.3	101	102	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514909

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514909001	EC-1.61	EPA 3010A	590910	EPA 6010D	590992
92514909002	EC-1.13	EPA 3010A	590910	EPA 6010D	590992
92514909003	EC-0.75	EPA 3010A	590910	EPA 6010D	590992
92514909004	EC-0.72	EPA 3010A	590910	EPA 6010D	590992
92514909005	EC-0	EPA 3010A	590910	EPA 6010D	590992
92514909006	EC+0.5	EPA 3010A	590910	EPA 6010D	590992
92514909001	EC-1.61	EPA 3005A	590909	EPA 6020B	590994
92514909002	EC-1.13	EPA 3005A	590909	EPA 6020B	590994
92514909003	EC-0.75	EPA 3005A	590909	EPA 6020B	590994
92514909004	EC-0.72	EPA 3005A	590909	EPA 6020B	590994
92514909005	EC-0	EPA 3005A	590909	EPA 6020B	590994
92514909006	EC+0.5	EPA 3005A	590909	EPA 6020B	590994
92514909001	EC-1.61	SM 2450C-2011	590962		
92514909002	EC-1.13	SM 2450C-2011	590962		
92514909003	EC-0.75	SM 2450C-2011	590962		
92514909004	EC-0.72	SM 2450C-2011	590962		
92514909005	EC-0	SM 2450C-2011	590962		
92514909006	EC+0.5	SM 2450C-2011	590962		
92514909001	EC-1.61	SM 2320B-2011	590920		
92514909002	EC-1.13	SM 2320B-2011	590920		
92514909003	EC-0.75	SM 2320B-2011	590920		
92514909004	EC-0.72	SM 2320B-2011	590920		
92514909005	EC-0	SM 2320B-2011	590920		
92514909006	EC+0.5	SM 2320B-2011	590920		
92514909001	EC-1.61	EPA 300.0 Rev 2.1 1993	590998		
92514909002	EC-1.13	EPA 300.0 Rev 2.1 1993	590998		
92514909003	EC-0.75	EPA 300.0 Rev 2.1 1993	590998		
92514909004	EC-0.72	EPA 300.0 Rev 2.1 1993	590998		
92514909005	EC-0	EPA 300.0 Rev 2.1 1993	590998		
92514909006	EC+0.5	EPA 300.0 Rev 2.1 1993	590998		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Requested Client Information:
 Company: AECADIS - Atlanta
 Address: 2850 Peach Ferry Rd
 Atlanta, GA 30338
 Email: warran.johnson@aecadis.com
 Phone: (478) 495-5298
 Requested Due Date: 2 Day TAT (by COB 10/20/21)

Section B
 Requested Project Information:
 Report To: Ben Hodges, GPC
 Copy To:
 Purchase Order #: S0510082775
 Project Name: Plan Bowen
 Project #:

Section C
 Invoice Information:
 Attention: Ben Hodges
 Company Name: GPC
 Address:
 Fax Number: 2239
 Project Manager: Myra Parris@aecadis.com
 Fax Order #: 2239

ITEM #	MATERIAL	CONC	MATRIX CODE (see veld codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Major Ions	App III	Residual Chlorine (Y/N)
					START	END			Unpreserved	H2SO4	HNO3	CR	NaOH	NH2S2O3	Methanol					
1	EC-1-81	WT	G	1/5/2021	11:55															
2	EC-1-13	WT	G	1/5/2021	12:20															
3	EC-0-25	WT	G	1/5/2021	17:30															
4	EC-0-22	WT	G	1/5/2021	12:45															
5	EC-0	WT	G	1/5/2021	13:07															
6	EC-0-5	WT	G	1/5/2021	13:22															
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS: RELINQUISHED BY AFFILIATION
 Date: 1-5-21 16:56
 Accepted by Affiliation: Charles Kunkle
 Date: 1/5/21 16:48

MO#: 92514909
 92514909

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: Chad Tolbasse
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 1-5-21

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis

Project #:

WO#: 92514909

PM: MP Due Date: 01/08/21

CLIENT: GR-ArcadAt1

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/5/21
cmf

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 12.9 Correction Factor: 0.4
Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 13.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>48 hr TAT</u>
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

January 08, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514916

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92514916001	EC-1.61	Water	01/05/21 11:55	01/05/21 16:46
92514916002	EC-1.13	Water	01/05/21 12:20	01/05/21 16:46
92514916003	EC-0.75	Water	01/05/21 12:30	01/05/21 16:46
92514916004	EC-0.72	Water	01/05/21 12:45	01/05/21 16:46
92514916005	EC-0	Water	01/05/21 13:07	01/05/21 16:46
92514916006	EC+0.5	Water	01/05/21 13:20	01/05/21 16:46

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SAMPLE ANALYTE COUNT

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514916001	EC-1.61	EPA 6020B	CW1	1	PASI-GA
92514916002	EC-1.13	EPA 6020B	CW1	1	PASI-GA
92514916003	EC-0.75	EPA 6020B	CW1	1	PASI-GA
92514916004	EC-0.72	EPA 6020B	CW1	1	PASI-GA
92514916005	EC-0	EPA 6020B	CW1	1	PASI-GA
92514916006	EC+0.5	EPA 6020B	CW1	1	PASI-GA

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC-1.61	Lab ID: 92514916001	Collected: 01/05/21 11:55	Received: 01/05/21 16:46	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 17:44	7440-38-2	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC-1.13		Lab ID: 92514916002		Collected: 01/05/21 12:20	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:07	7440-38-2	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC-0.75		Lab ID: 92514916003		Collected: 01/05/21 12:30	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:13	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC-0.72		Lab ID: 92514916004		Collected: 01/05/21 12:45	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:19	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC-0		Lab ID: 92514916005		Collected: 01/05/21 13:07	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:25	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Sample: EC+0.5		Lab ID: 92514916006		Collected: 01/05/21 13:20	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:42	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514916

QC Batch: 590909 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92514916001, 92514916002, 92514916003, 92514916004, 92514916005, 92514916006

METHOD BLANK: 3119546 Matrix: Water
Associated Lab Samples: 92514916001, 92514916002, 92514916003, 92514916004, 92514916005, 92514916006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	01/06/21 17:33	

LABORATORY CONTROL SAMPLE: 3119547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119548 3119549

Parameter	Units	3119548		3119549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92514916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514916001	EC-1.61	EPA 3005A	590909	EPA 6020B	590994
92514916002	EC-1.13	EPA 3005A	590909	EPA 6020B	590994
92514916003	EC-0.75	EPA 3005A	590909	EPA 6020B	590994
92514916004	EC-0.72	EPA 3005A	590909	EPA 6020B	590994
92514916005	EC-0	EPA 3005A	590909	EPA 6020B	590994
92514916006	EC+0.5	EPA 3005A	590909	EPA 6020B	590994

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: ARCADIS - Atlanta
Address: 2899 Peach Ferry Rd Atlanta, GA 30339
Email: walter.ljohnson@arcadis.com
Phone: 478.495.5298
Requested Due Date: 2 Day TAT (by COB 1/8/2021)

Report To: Ben Hodges GPC
Copy To:
Purchase Order #: SCS10382775
Project Name: Pine Blown
Project #:

Attention: Ben Hodges
Company Name: GPC
Address:
Pine Blown
Pine Project Manager: Mayra Pineda@arcadis.com
Pine Profile #: 229

Regulatory Agency
State / Location: GA

# ITEM	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Residual Chlorine (Y/N)
			START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		
1	EC-1-01	WT	1/5/2021 11:55										X	
2	EC-1-13	WT	1/5/2021 12:20										X	
3	EC-0-75	WT	1/5/2021 12:30										X	
4	EC-0-72	WT	1/5/2021 12:45										X	
5	EC-0	WT	1/5/2021 13:07										X	
6	EC-0-5	WT	1/5/2021 13:20										X	
7														
8														
9														
10														
11														
12														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Paul Jenkins</i>	1/5/21	16:40	<i>Charles Funder</i>	1/14/21	16:45	TEMP in C Received on ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

WO#: 92514916

92514916

SAMPLER NAME AND SIGNATURE: *Paul Jenkins*

PRINT Name of SAMPLER: *Paul Jenkins*

SIGNATURE of SAMPLER: *Paul Jenkins*

DATE Signed: 1-5-21

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition:
Upon Receipt

Client Name:

Arcadis

Project #:

WO#: 92514916

PM: NP

Due Date: 01/08/21

CLIENT: GA-Arcadis

Courier:

Commercial

Fed Ex

UPS

USPS

Other:

Client

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Thermometer:

IR Gun ID:

233

Type of Ice:

Sweet

Blue

None

Cooler Temp:

12.9

Correction Factor:
Add/Subtract (°C)

0.4

Cooler Temp Corrected (°C):

13.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

Chain of Custody Present?	Yes	No	N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. <i>48hr-TAT</i>
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10.
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:

January 08, 2021

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514921

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514921

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92514921001	EC-1.61	Water	01/05/21 11:55	01/05/21 16:46
92514921002	EC-1.13	Water	01/05/21 12:20	01/05/21 16:46
92514921003	EC-0.75	Water	01/05/21 12:30	01/05/21 16:46
92514921004	EC-0.72	Water	01/05/21 12:45	01/05/21 16:46
92514921005	EC-0	Water	01/05/21 13:07	01/05/21 16:46
92514921006	EC+0.5	Water	01/05/21 13:20	01/05/21 16:46

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SAMPLE ANALYTE COUNT

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514921

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514921001	EC-1.61	EPA 6020B	KH	1	PASI-GA
92514921002	EC-1.13	EPA 6020B	KH	1	PASI-GA
92514921003	EC-0.75	EPA 6020B	KH	1	PASI-GA
92514921004	EC-0.72	EPA 6020B	KH	1	PASI-GA
92514921005	EC-0	EPA 6020B	KH	1	PASI-GA
92514921006	EC+0.5	EPA 6020B	CW1	1	PASI-GA

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC-1.61		Lab ID: 92514921001		Collected: 01/05/21 11:55	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/07/21 13:47	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC-1.13		Lab ID: 92514921002		Collected: 01/05/21 12:20	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/07/21 14:04	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC-0.75		Lab ID: 92514921003		Collected: 01/05/21 12:30	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/07/21 14:10	7440-48-4	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC-0.72		Lab ID: 92514921004		Collected: 01/05/21 12:45	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/07/21 14:15	7440-48-4	

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC-0		Lab ID: 92514921005		Collected: 01/05/21 13:07	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/07/21 14:21	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

Sample: EC+0.5		Lab ID: 92514921006		Collected: 01/05/21 13:20	Received: 01/05/21 16:46	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Cobalt	ND	mg/L	0.0050	1	01/06/21 10:07	01/06/21 18:42	7440-48-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

QC Batch: 590909 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92514921001, 92514921002, 92514921003, 92514921004, 92514921005, 92514921006

METHOD BLANK: 3119546

Matrix: Water

Associated Lab Samples: 92514921001, 92514921002, 92514921003, 92514921004, 92514921005, 92514921006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	01/07/21 13:35	

LABORATORY CONTROL SAMPLE: 3119547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119548 3119549

Parameter	Units	3119548		3119549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92514916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cobalt	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Bowen-CCR Ash Pond

Pace Project No.: 92514921

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Bowen-CCR Ash Pond
Pace Project No.: 92514921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514921001	EC-1.61	EPA 3005A	590909	EPA 6020B	590994
92514921002	EC-1.13	EPA 3005A	590909	EPA 6020B	590994
92514921003	EC-0.75	EPA 3005A	590909	EPA 6020B	590994
92514921004	EC-0.72	EPA 3005A	590909	EPA 6020B	590994
92514921005	EC-0	EPA 3005A	590909	EPA 6020B	590994
92514921006	EC+0.5	EPA 3005A	590909	EPA 6020B	590994

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: JRC/ADIS - Atlanta
 Address: 2838 Peach Ferry Rd, Atlanta, GA 30338
 Email: wren.johnson@pacifica.com
 Phone: 678 495 5298
 Requested Date: 2 Day TAT (by COB 1/5/2021)

Report To: Ben Hodges, GPC
 Copy To:
 Project Name: Print Bowen
 Project #:

Purchase Order #: SCS10982775
 Project Manager: Marya Park@pacifica.com
 Project #:

Attention: Ben Hodges
 Company Name: GPC
 Address:
 Project Manager: Marya Park@pacifica.com
 Project #:

Regulatory Agency: GA

SAMPLE ID (A-Z, 0-9, -) Sample ID must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Residual Chlorine (Y/N)			
			START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH			Na2S2O3	Methanol	Other
1 EC-1-B1	WT	G	1/5/2021	11:55														
2 EC-1-13	WT	G	1/5/2021	12:20														
3 EC-0-75	WT	G	1/5/2021	12:30														
4 EC-0-72	WT	G	1/5/2021	12:45														
5 EC-0	WT	G	1/5/2021	13:07														
6 EC-0-5	WT	G	1/5/2021	13:20														
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELEASED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Wren Johnson</i>	1-5-21	15:46	<i>Ben Hodges</i>	1/5/21	16:46	

TEMP in C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Sampler Name and Signature: *Wren Johnson*

Signature of Sampler: *Wren Johnson*

Date Signed: 1-5-21

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Arcadis

Project #:

WO#: 92514921
 PH: MP Due Date: 01/08/21
 CLIENT: GA-ArcadAtI

Courier: Fed Ex UPS USPS Other
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 239 Type of Ice: Wet Blue None

Cooler Temp: 12.9 Correction Factor: Add/Subtract (°C) 0.4

Cooler Temp Corrected (°C): 13.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Date/Initials Person Examining Contents: 1/5/21/24

Biological Tissue Frozen?

Yes No N/A

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>48hr TAT</u>
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

February 11, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92517692

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92517692001	BGWC-14A	Water	01/20/21 11:17	01/21/21 09:51
92517692002	BGWA-47D	Water	01/20/21 15:45	01/21/21 09:51
92517692003	BGWA-48D	Water	01/20/21 12:32	01/21/21 09:51
92517692004	FBL012021	Water	01/20/21 14:40	01/21/21 09:51
92517692005	EQBL012021	Water	01/20/21 14:43	01/21/21 09:51
92517692006	DUP-1	Water	01/20/21 00:00	01/21/21 09:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92517692001	BGWC-14A	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92517692002	BGWA-47D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92517692003	BGWA-48D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92517692004	FBL012021	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92517692005	EQBL012021	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92517692006	DUP-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92517692

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92517692001	BGWC-14A					
EPA 9315	Radium-226	0.159 ± 0.198 (0.399)	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	C:85% T:NA 0.542 ± 0.406 (0.798)	pCi/L		02/04/21 14:58	
Total Radium Calculation	Total Radium	C:79% T:83% 0.701 ± 0.604 (1.20)	pCi/L		02/10/21 08:43	
92517692002	BGWA-47D					
EPA 9315	Radium-226	0.377 ± 0.265 (0.412)	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	C:87% T:NA 0.292 ± 0.415 (0.892)	pCi/L		02/04/21 14:58	
Total Radium Calculation	Total Radium	C:75% T:83% 0.669 ± 0.680 (1.30)	pCi/L		02/10/21 08:43	
92517692003	BGWA-48D					
EPA 9315	Radium-226	0.188 ± 0.247 (0.525)	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	C:85% T:NA 1.14 ± 0.515 (0.879)	pCi/L		02/04/21 14:57	
Total Radium Calculation	Total Radium	C:75% T:86% 1.33 ± 0.762 (1.40)	pCi/L		02/10/21 08:43	
92517692004	FBL012021					
EPA 9315	Radium-226	0.113 ± 0.211 (0.482)	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	C:88% T:NA 0.262 ± 0.400 (0.866)	pCi/L		02/04/21 14:43	
Total Radium Calculation	Total Radium	C:80% T:81% 0.375 ± 0.611 (1.35)	pCi/L		02/10/21 08:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92517692005	EQBL012021					
EPA 9315	Radium-226	0.142 ± 0.206 (0.443) C:89% T:NA	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	0.102 ± 0.531 (1.21) C:78% T:81%	pCi/L		02/04/21 18:25	
Total Radium Calculation	Total Radium	0.244 ± 0.737 (1.65)	pCi/L		02/10/21 10:25	
92517692006	DUP-1					
EPA 9315	Radium-226	0.320 ± 0.260 (0.443) C:79% T:NA	pCi/L		02/09/21 07:43	
EPA 9320	Radium-228	0.0443 ± 0.522 (1.21) C:78% T:76%	pCi/L		02/04/21 18:25	
Total Radium Calculation	Total Radium	0.364 ± 0.782 (1.65)	pCi/L		02/10/21 10:25	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-14A Lab ID: 92517692001 Collected: 01/20/21 11:17 Received: 01/21/21 09:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.159 ± 0.198 (0.399) C:85% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.542 ± 0.406 (0.798) C:79% T:83%	pCi/L	02/04/21 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.701 ± 0.604 (1.20)	pCi/L	02/10/21 08:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-47D Lab ID: 92517692002 Collected: 01/20/21 15:45 Received: 01/21/21 09:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.377 ± 0.265 (0.412) C:87% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.292 ± 0.415 (0.892) C:75% T:83%	pCi/L	02/04/21 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.669 ± 0.680 (1.30)	pCi/L	02/10/21 08:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-48D Lab ID: 92517692003 Collected: 01/20/21 12:32 Received: 01/21/21 09:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.188 ± 0.247 (0.525) C:85% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.14 ± 0.515 (0.879) C:75% T:86%	pCi/L	02/04/21 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.33 ± 0.762 (1.40)	pCi/L	02/10/21 08:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL012021 Lab ID: 92517692004 Collected: 01/20/21 14:40 Received: 01/21/21 09:51 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.113 ± 0.211 (0.482) C:88% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.262 ± 0.400 (0.866) C:80% T:81%	pCi/L	02/04/21 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.375 ± 0.611 (1.35)	pCi/L	02/10/21 08:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL012021 Lab ID: 92517692005 Collected: 01/20/21 14:43 Received: 01/21/21 09:51 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.142 ± 0.206 (0.443) C:89% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.102 ± 0.531 (1.21) C:78% T:81%	pCi/L	02/04/21 18:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.244 ± 0.737 (1.65)	pCi/L	02/10/21 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

Sample: DUP-1 **Lab ID: 92517692006** Collected: 01/20/21 00:00 Received: 01/21/21 09:51 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.320 ± 0.260 (0.443) C:79% T:NA	pCi/L	02/09/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0443 ± 0.522 (1.21) C:78% T:76%	pCi/L	02/04/21 18:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.364 ± 0.782 (1.65)	pCi/L	02/10/21 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

QC Batch:	432561	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92517692001, 92517692002, 92517692003, 92517692004, 92517692005, 92517692006

METHOD BLANK: 2088957 Matrix: Water

Associated Lab Samples: 92517692001, 92517692002, 92517692003, 92517692004, 92517692005, 92517692006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.423 ± 0.354 (0.709) C:81% T:84%	pCi/L	02/04/21 14:59	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

QC Batch:	433326	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92517692001, 92517692002, 92517692003, 92517692004, 92517692005, 92517692006

METHOD BLANK: 2092294 Matrix: Water

Associated Lab Samples: 92517692001, 92517692002, 92517692003, 92517692004, 92517692005, 92517692006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.150 ± 0.194 (0.397) C:92% T:NA	pCi/L	02/09/21 07:43	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN AP-1 BACKGROUND RADS

Pace Project No.: 92517692

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP-1 BACKGROUND RADS
Pace Project No.: 92517692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92517692001	BGWC-14A	EPA 9315	433326		
92517692002	BGWA-47D	EPA 9315	433326		
92517692003	BGWA-48D	EPA 9315	433326		
92517692004	FBL012021	EPA 9315	433326		
92517692005	EQBL012021	EPA 9315	433326		
92517692006	DUP-1	EPA 9315	433326		
92517692001	BGWC-14A	EPA 9320	432561		
92517692002	BGWA-47D	EPA 9320	432561		
92517692003	BGWA-48D	EPA 9320	432561		
92517692004	FBL012021	EPA 9320	432561		
92517692005	EQBL012021	EPA 9320	432561		
92517692006	DUP-1	EPA 9320	432561		
92517692001	BGWC-14A	Total Radium Calculation	434325		
92517692002	BGWA-47D	Total Radium Calculation	434325		
92517692003	BGWA-48D	Total Radium Calculation	434325		
92517692004	FBL012021	Total Radium Calculation	434325		
92517692005	EQBL012021	Total Radium Calculation	434357		
92517692006	DUP-1	Total Radium Calculation	434357		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO#: 92517692**



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Date/Initials Person Examining Contents: MT 11/21/21

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) ±0.4

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.4

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<u>MT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

W0# : 92517692

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

PH: KLH1

Due Date: 02/11/21

*Bottom half of box is to list number of bottles

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-1.25 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power
 Company: 1003 Weatherstone Parkway
 Address: Woodstock, GA 30188
 Email To: (678)548-9415 Fax: Standard
 Phone: Requested Run Date: Standard

Section B Required Project Information: SCS Contacts
 Report To: Geosynthetic Contacts
 Copy To: Geosynthetic Contacts
 Project Name: Plant Bowen AP-1 Background
 Project Number: 10844
 Purchase Order #: 10844
 Section C Invoice Information: Advertiser: Company Name: H2SO4
 Address: HNO3
 PO Box: Kevin Herring
 PO Box Profile #: 10844
 Preservatives: HCl, NaOH, Na2S2O3, Methanol, Other
 Analytes Test: RAD 0315/0320, Metals*, Cl, F, SO4, TDS
 Residual Chlorine (Y/N): 42517642

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Residual Chlorine (Y/N)						
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other				
1	BGWC-14A	WT G	1/26/21	11:17		3														
2	BGWA-47D	WT G	1/26/21	15:45		3														
3	BGWA-48D	WT G	1/26/21	12:32		3														
4	FBL012021	WT G	1/26/21	14:40		3														
5	EOBL 012021	WT G	1/26/21	14:43		3														
6	DUP-1	WT G	1/26/21			3														
7																				
8																				
9																				
10																				
11																				
12																				

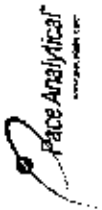
ADDITIONAL COMMENTS: Will Leaker / Resulte 1/21/21 0931 *Will Leaker* / *Mac ce*
 RELINQUISHED BY/AFFILIATION: DATE: TIME: ACCEPTED BY/AFFILIATION: DATE: TIME: SAMPLE CONDITIONS: S&D Y N Y
 *As, B, Ba, Br, Ca, Cd, Cr, Co, Hg, Li, Mn, Pb, Sn, Sr, Ti

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: William Leaker, Joe Booth
 SIGNATURE of SAMPLER: *William Leaker* DATE Signed: 1/20/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJY
Date: 2/8/2021
Worksheet: 58638
Matrix: QW



Method Blank Assessment	
MB Sample ID	2092294
MB Concentration	0.140
MB Counting Uncertainty	0.192
MB MDC	0.397
MB Numerical Performance Indicator	1.53
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment	
Count Date	LCSD, % of MV?
2/9/2021	LCSD: 58638
2/9/2021	25/2021
Decay Corrected Spike Concentration (pCi/mL)	19.033
Spike I.D.	24.040
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.507
Target Conc. (pCi/L, g, F)	4.765
Uncertainty (Calculated)	0.057
Result (pCi/L, g, F)	4.773
LCSD/Counting Uncertainty (pCi/L, g, F)	0.809
Numerical Performance Indicator	0.02
Percent Recovery	100.16%
Status vs Numerical Indicator	N/A
Status vs Recovery	Pass
Upper % Recovery Limit	125%
Lower % Recovery Limit	75%

Duplicate Sample Assessment	
Sample I.D.	LCSD: 58638
Duplicate Sample I.D.	LCSD: 58638
Sample Result (pCi/L, g, F)	4.773
Sample Duplicate Result (pCi/L, g, F)	0.609
Sample Duplicate Counting Uncertainty (pCi/L, g, F)	5.375
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)	0.863
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator	-0.969
(Based on the LCSD/Counting Uncertainty) Duplicate RPD	12.37%
Duplicate Status vs Numerical Indicator	N/A
Duplicate Status vs RPD	Pass
% RPD Limit	25%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.
Sample MS I.D.	Sample MS I.D.
Sample MSD I.D.	Sample MSD I.D.
Spikes I.D.	MS/MSD 1
MS/MSD Decay Corrected Spike Concentration (pCi/mL)	MS/MSD 2
Spike Volume Used in MS (mL)	
Spike Volume Used in MSD (mL)	
MS Aliquot (L, g, F)	
MS Target Conc. (pCi/L, g, F)	
MSD Aliquot (L, g, F)	
MSD Target Conc. (pCi/L, g, F)	
MS Spike Uncertainty (calculated)	
MSD Spike Uncertainty (calculated)	
Sample Result Counting Uncertainty (pCi/L, g, F)	
Sample Matrix Spike Result	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F)	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)	
MS Numerical Performance Indicator	
MSD Numerical Performance Indicator	
MS Percent Recovery	
MSD Percent Recovery	
MS Status vs Numerical Indicator	
MSD Status vs Numerical Indicator	
MS Status vs Recovery	
MSD Status vs Recovery	
MS/MSD Upper % Recovery Limit	
MS/MSD Lower % Recovery Limit	

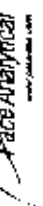
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	Sample I.D.
Sample MS I.D.	Sample MS I.D.
Sample MSD I.D.	Sample MSD I.D.
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	Matrix Spike Result Counting Uncertainty (pCi/L, g, F)
Sample Matrix Spike Duplicate Result	Sample Matrix Spike Duplicate Result
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)	Duplicate Numerical Performance Indicator
Duplicate Numerical Performance Indicator	(Based on the Percent Recoveries) MS/MSD Duplicate RPD
(Based on the Percent Recoveries) MS/MSD Duplicate RPD	MS/MSD Duplicate Status vs Numerical Indicator
MS/MSD Duplicate Status vs Numerical Indicator	MS/MSD Duplicate Status vs RPD
MS/MSD Duplicate Status vs RPD	% RPD Limit

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

WJY 2/19/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/8/2021
Worksheet: 58638
Matrix: DW

Method Blank Assessment	
MB Sample ID	2092294
MB Concentration	0.150
%B Counting Uncertainty	0.192
MB MDC	0.387
MB Numerical Performance Indicator	1.53
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS58638	LCS058638
Count Date	2/5/2021
Spike I.D.	19-033
Decay Corrected Spike Concentration (pCi/mL)	24.040
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.505
Target Conc (pCi/L, g, F)	4.765
Uncertainty (Calculation)	0.057
Result (pCi/L, g, F)	4.773
LCS/LCSO Counting Uncertainty (pCi/L, g, F)	0.806
Numerical Performance Indicator	0.92
Percent Recovery	100.16%
Status vs Numerical Indicator	N/A
Status vs Recovery	Pass
Upper % Recovery Limits	125%
Lower % Recovery Limits	75%

Duplicate Sample Assessment	
Sample I.D.	92517856001
Duplicate Sample I.D.	92517856001DUP
Sample Result (pCi/L, g, F)	0.209
Sample Duplicate Result (pCi/L, g, F)	0.222
Sample Duplicate Counting Uncertainty (pCi/L, g, F)	0.681
Are sample and/or duplicate results below RL?	0.370
Duplicate Numerical Performance Indicator	See Below ##
Duplicate RPD	-4.171
Duplicate Status vs Numerical Indicator	108.17%
Duplicate Status vs RPD	N/A
% RPD Limit	Fail*** 25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

NI C3 accepted
Nu 2/9/21

***Batch must be reprocessed due to unacceptable precision.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/2/2021
Worksheet: 58538
Matrix: WWT

Method Blank Assessment	
MB Sample ID	2068957
MB Concentration:	0.423
MB 2 Sigma CSU	0.354
MB MDC:	0.709
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	Warning
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)?	Y
LCS#	LCS058538
Count Date:	2/4/2021
Spike I.D.	20-030
Decay Corrected Spike Concentration (pCi/mL)	36.635
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.803
Target Conc. (pCi/L, g, F)	4.563
Uncertainty (Calculated):	0.224
Result (pCi/L, g, F)	2.734
LCS#LCS# 2 Sigma CSU (pCi/L, g, F)	0.942
Numerical Performance Indicator:	-3.70
Percent Recovery:	59.92%
Status vs Numerical Indicator:	Fail**
Status vs Recovery:	Pass
Upper % Recovery Limit:	135%
Lower % Recovery Limit:	60%

Duplicate Sample Assessment	
Sample I.D.	LCS058538
Duplicate Sample I.D.	LCS058538
Sample Result (pCi/L, g, F)	2.734
Sample Result 2 Sigma CSU (pCi/L, g, F)	0.842
Sample Duplicate Result (pCi/L, g, F)	3.105
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F)	0.887
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.563
(Based on the LCS#LCS# Percent Recoveries) Duplicate RPD:	13.75%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	24%

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

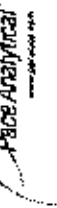
Comments:

**Batch must be re-prepped due to LCS failure.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limit: MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.:
Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/5/2021
Worklist: 58538
Matrix:

Method Blank Assessment
 MB Sample ID
 MB Concentration:
 MB MDC:
 MB Numerical Performance Indicator:
 MB Status vs Numerical Indicator:
 MB Status vs MDC:

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:	2/8/2021	LCS058538	2/8/2021
Spike I.D.:	20-030		20-030
Decay Corrected Spike Concentration (pCi/mL):	36.590		36.590
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.803		0.806
Target Conc. (pCi/L, g, F):	4.357		4.336
Uncertainty (Calculated):	0.223		0.222
Result (pCi/L, g, F):	4.275		4.409
Numerical Performance Indicator:	1.024		1.024
Percent Recovery:	-0.53		-0.24
Status vs Numerical Indicator:	93.60%		97.10%
Upper % Recovery Limits:	Pass		Pass
Lower % Recovery Limits:	135%		135%
	60%		60%

Duplicate Sample Assessment		LCSID	Y or N?
Sample I.D.:	LCS058538		
Duplicate Sample I.D.:	4.275		
Sample Result (pCi/L, g, F):	1.024		
Sample Duplicate Result (pCi/L, g, F):	4.409		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	-0.182		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.53%		
Duplicate Status vs Numerical Indicator:	Pass		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	35%		

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

Sample Matrix Spike Control Assessment
 Sample Collection Date:
 Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Spike I.D.:
 MS/MSD Decay Corrected Spike Concentration (pCi/mL):
 Spike Volume Used in MS (mL):
 Spike Volume Used in MSD (mL):
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 MS Spike Uncertainty (calculated):
 MSD Spike Uncertainty (calculated):
 Sample Result:
 Sample Matrix Spike Result:
 Sample Matrix Spike Duplicate Result:
 MS Numerical Performance Indicator:
 MSD Numerical Performance Indicator:
 MS Percent Recovery:
 MSD Percent Recovery:
 MS Status vs Numerical Indicator:
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery:
 MSD Status vs Recovery:
 MS/MSD Upper % Recovery Limits:
 MS/MSD Lower % Recovery Limits:

Matrix Spike/Matrix Spike Duplicate Sample Assessment
 Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Sample Matrix Spike Result:
 Sample Matrix Spike Duplicate Result:
 Duplicate Numerical Performance Indicator:
 (Based on the Percent Recoveries) MS/MSD Duplicate RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:
 % RPD Limit:

February 04, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92517740001	BGWC-14A	Water	01/20/21 11:17	01/21/21 09:31
92517740002	BGWA-47D	Water	01/20/21 15:45	01/21/21 09:31
92517740003	BGWA-48D	Water	01/20/21 12:32	01/21/21 09:31
92517740004	FBL012021	Water	01/20/21 14:40	01/21/21 09:31
92517740005	EQBL012021	Water	01/20/21 14:43	01/21/21 09:31
92517740006	DUP-1	Water	01/20/21 00:00	01/21/21 09:31

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92517740001	BGWC-14A	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92517740002	BGWA-47D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92517740003	BGWA-48D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92517740004	FBL012021	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92517740005	EQBL012021	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92517740006	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92517740001	BGWC-14A					
	Performed by	CUSTOMER			02/04/21 09:43	
	pH	7.12	Std. Units		02/04/21 09:43	
EPA 6010D	Calcium	157	mg/L	1.0	02/01/21 20:10	M1
EPA 6020B	Barium	0.042	mg/L	0.010	02/02/21 18:20	
EPA 6020B	Boron	1.1	mg/L	0.10	02/02/21 18:20	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/02/21 18:20	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/02/21 18:20	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/02/21 18:20	
EPA 6020B	Thallium	0.00031J	mg/L	0.0010	02/02/21 18:20	
SM 2450C-2011	Total Dissolved Solids	786	mg/L	20.0	01/21/21 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	21.9	mg/L	1.0	01/22/21 22:45	
EPA 300.0 Rev 2.1 1993	Sulfate	299	mg/L	7.0	01/23/21 01:49	
92517740002	BGWA-47D					
	Performed by	CUSTOMER			02/04/21 09:43	
	pH	6.83	Std. Units		02/04/21 09:43	
EPA 6010D	Calcium	111	mg/L	1.0	02/01/21 20:30	
EPA 6020B	Antimony	0.00068J	mg/L	0.0030	02/02/21 18:26	B
EPA 6020B	Barium	0.058	mg/L	0.010	02/02/21 18:26	
EPA 6020B	Boron	0.022J	mg/L	0.10	02/02/21 18:26	
EPA 6020B	Chromium	0.00061J	mg/L	0.010	02/02/21 18:26	
EPA 6020B	Lead	0.000072J	mg/L	0.0050	02/02/21 18:26	
SM 2450C-2011	Total Dissolved Solids	377	mg/L	10.0	01/21/21 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	01/22/21 23:00	
EPA 300.0 Rev 2.1 1993	Sulfate	73.4	mg/L	1.0	01/22/21 23:00	
92517740003	BGWA-48D					
	Performed by	CUSTOMER			02/04/21 09:43	
	pH	7.31	Std. Units		02/04/21 09:43	
EPA 6010D	Calcium	67.5	mg/L	1.0	02/01/21 20:34	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/02/21 18:48	B
EPA 6020B	Barium	0.071	mg/L	0.010	02/02/21 18:48	
EPA 6020B	Boron	0.034J	mg/L	0.10	02/02/21 18:48	
EPA 6020B	Lead	0.00025J	mg/L	0.0050	02/02/21 18:48	
EPA 6020B	Lithium	0.00091J	mg/L	0.030	02/02/21 18:48	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	02/02/21 18:48	
SM 2450C-2011	Total Dissolved Solids	285	mg/L	10.0	01/21/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	01/22/21 23:16	
EPA 300.0 Rev 2.1 1993	Sulfate	26.1	mg/L	1.0	01/22/21 23:16	
92517740006	DUP-1					
EPA 6010D	Calcium	157	mg/L	1.0	02/02/21 09:14	
EPA 6020B	Antimony	0.00029J	mg/L	0.0030	02/02/21 19:17	B
EPA 6020B	Barium	0.043	mg/L	0.010	02/02/21 19:17	
EPA 6020B	Boron	1.2	mg/L	0.10	02/02/21 19:17	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/02/21 19:17	

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SUMMARY OF DETECTION

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92517740006	DUP-1					
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/02/21 19:17	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/02/21 19:17	
EPA 6020B	Thallium	0.00023J	mg/L	0.0010	02/02/21 19:17	
SM 2450C-2011	Total Dissolved Solids	788	mg/L	20.0	01/21/21 14:54	
EPA 300.0 Rev 2.1 1993	Chloride	22.0	mg/L	1.0	01/24/21 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	349	mg/L	8.0	01/25/21 06:03	

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Sample: BGWC-14A		Lab ID: 92517740001		Collected: 01/20/21 11:17		Received: 01/21/21 09:31		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/04/21 09:43		
pH	7.12	Std. Units			1		02/04/21 09:43		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	157	mg/L	1.0	0.070	1	02/01/21 11:28	02/01/21 20:10	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 18:20	7440-38-2	
Barium	0.042	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 18:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 18:20	7440-41-7	
Boron	1.1	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 18:20	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 18:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 18:20	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 18:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 18:20	7439-92-1	
Lithium	0.00082J	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 18:20	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 18:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 18:20	7782-49-2	
Thallium	0.00031J	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 18:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	786	mg/L	20.0	20.0	1		01/21/21 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	21.9	mg/L	1.0	0.60	1		01/22/21 22:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/22/21 22:45	16984-48-8	
Sulfate	299	mg/L	7.0	3.5	7		01/23/21 01:49	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Sample: BGWA-47D		Lab ID: 92517740002		Collected: 01/20/21 15:45		Received: 01/21/21 09:31		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/04/21 09:43		
pH	6.83	Std. Units			1		02/04/21 09:43		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	111	mg/L	1.0	0.070	1	02/01/21 11:28	02/01/21 20:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00068J	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 18:26	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 18:26	7440-38-2	
Barium	0.058	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 18:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 18:26	7440-41-7	
Boron	0.022J	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 18:26	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 18:26	7440-43-9	
Chromium	0.00061J	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 18:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 18:26	7440-48-4	
Lead	0.000072J	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 18:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 18:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 18:26	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 18:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	377	mg/L	10.0	10.0	1		01/21/21 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		01/22/21 23:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/22/21 23:00	16984-48-8	
Sulfate	73.4	mg/L	1.0	0.50	1		01/22/21 23:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Sample: BGWA-48D		Lab ID: 92517740003		Collected: 01/20/21 12:32		Received: 01/21/21 09:31		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/04/21 09:43		
pH	7.31	Std. Units			1		02/04/21 09:43		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	67.5	mg/L	1.0	0.070	1	02/01/21 11:28	02/01/21 20:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 18:48	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 18:48	7440-38-2	
Barium	0.071	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 18:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 18:48	7440-41-7	
Boron	0.034J	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 18:48	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 18:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 18:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 18:48	7440-48-4	
Lead	0.00025J	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 18:48	7439-92-1	
Lithium	0.00091J	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 18:48	7439-93-2	
Molybdenum	0.0018J	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 18:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 18:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	285	mg/L	10.0	10.0	1		01/21/21 14:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.2	mg/L	1.0	0.60	1		01/22/21 23:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/22/21 23:16	16984-48-8	
Sulfate	26.1	mg/L	1.0	0.50	1		01/22/21 23:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Sample: FBL012021		Lab ID: 92517740004		Collected: 01/20/21 14:40	Received: 01/21/21 09:31	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	02/01/21 11:28	02/01/21 20:39	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 18:54	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 18:54	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 18:54	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 18:54	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 18:54	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 18:54	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 18:54	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 18:54	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 18:54	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 18:54	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 18:54	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 18:54	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 18:54	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:21	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/21/21 14:54			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/22/21 23:31	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/22/21 23:31	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		01/22/21 23:31	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

Sample: EQBL012021		Lab ID: 92517740005		Collected: 01/20/21 14:43	Received: 01/21/21 09:31	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	02/01/21 11:28	02/02/21 09:10	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 19:00	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 19:00	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 19:00	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 19:00	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 19:00	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 19:00	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 19:00	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 19:00	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 19:00	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 19:00	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 19:00	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 19:00	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 19:00	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:23	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/21/21 14:54			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/24/21 22:50	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/24/21 22:50	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		01/24/21 22:50	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Sample: DUP-1		Lab ID: 92517740006		Collected: 01/20/21 00:00	Received: 01/21/21 09:31	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	157	mg/L	1.0	0.070	1	02/01/21 11:28	02/02/21 09:14	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00029J	mg/L	0.0030	0.00028	1	02/02/21 09:23	02/02/21 19:17	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 09:23	02/02/21 19:17	7440-38-2		
Barium	0.043	mg/L	0.010	0.00071	1	02/02/21 09:23	02/02/21 19:17	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 09:23	02/02/21 19:17	7440-41-7		
Boron	1.2	mg/L	0.10	0.0052	1	02/02/21 09:23	02/02/21 19:17	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 09:23	02/02/21 19:17	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 09:23	02/02/21 19:17	7440-47-3		
Cobalt	0.0019J	mg/L	0.0050	0.00038	1	02/02/21 09:23	02/02/21 19:17	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 09:23	02/02/21 19:17	7439-92-1		
Lithium	0.00082J	mg/L	0.030	0.00081	1	02/02/21 09:23	02/02/21 19:17	7439-93-2		
Molybdenum	0.0014J	mg/L	0.010	0.00069	1	02/02/21 09:23	02/02/21 19:17	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 09:23	02/02/21 19:17	7782-49-2		
Thallium	0.00023J	mg/L	0.0010	0.00014	1	02/02/21 09:23	02/02/21 19:17	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	01/26/21 07:45	01/26/21 10:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	788	mg/L	20.0	20.0	1		01/21/21 14:54			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	22.0	mg/L	1.0	0.60	1		01/24/21 23:35	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/24/21 23:35	16984-48-8		
Sulfate	349	mg/L	8.0	4.0	8		01/25/21 06:03	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

QC Batch: 596653 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

METHOD BLANK: 3146677 Matrix: Water
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	02/01/21 20:01	

LABORATORY CONTROL SAMPLE: 3146678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146679 3146681

Parameter	Units	92517740001		3146681		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Calcium	mg/L	157	1	159	1	244	-497	75-125	5	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146682 3146683

Parameter	Units	92517909002		3146683		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Calcium	mg/L	177	1	182	1	421	522	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

QC Batch: 596887 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

METHOD BLANK: 3147679 Matrix: Water
 Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00049J	0.0030	0.00028	02/02/21 18:08	
Arsenic	mg/L	ND	0.0050	0.00078	02/02/21 18:08	
Barium	mg/L	ND	0.010	0.00071	02/02/21 18:08	
Beryllium	mg/L	ND	0.0030	0.000046	02/02/21 18:08	
Boron	mg/L	ND	0.10	0.0052	02/02/21 18:08	
Cadmium	mg/L	ND	0.0025	0.00012	02/02/21 18:08	
Chromium	mg/L	ND	0.010	0.00055	02/02/21 18:08	
Cobalt	mg/L	ND	0.0050	0.00038	02/02/21 18:08	
Lead	mg/L	ND	0.0050	0.000036	02/02/21 18:08	
Lithium	mg/L	ND	0.030	0.00081	02/02/21 18:08	
Molybdenum	mg/L	ND	0.010	0.00069	02/02/21 18:08	
Selenium	mg/L	ND	0.010	0.0016	02/02/21 18:08	
Thallium	mg/L	ND	0.0010	0.00014	02/02/21 18:08	

LABORATORY CONTROL SAMPLE: 3147680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147681 3147682

Parameter	Units	92517740002 Result	MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	0.00068J	0.1	0.11	0.1	0.11	107	111	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.098	0.1	0.10	98	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Parameter	Units	3147681		3147682		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92517740002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.058	0.1	0.1	0.15	0.16	96	102	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20		
Boron	mg/L	0.022J	1	1	1.0	1.0	99	100	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20		
Chromium	mg/L	0.00061J	0.1	0.1	0.10	0.10	102	103	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Lead	mg/L	0.000072J	0.1	0.1	0.094	0.097	94	97	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.093	0.094	92	93	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

QC Batch: 594783 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

METHOD BLANK: 3138040 Matrix: Water
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	01/26/21 09:53	

LABORATORY CONTROL SAMPLE: 3138041

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138042 3138043

Parameter	Units	3138042		3138043		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92517740001 Result: ND	0.0025	0.0025	0.0024	0.0023	97	94	75-125	3	20

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

QC Batch:	594404	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

METHOD BLANK: 3136152 Matrix: Water
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004, 92517740005, 92517740006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/21/21 14:49	

LABORATORY CONTROL SAMPLE: 3136153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	84-108	

SAMPLE DUPLICATE: 3136480

Parameter	Units	92516971004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	83.0	91.0	9	10	

SAMPLE DUPLICATE: 3136481

Parameter	Units	92517679002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	41.0	44.0	7	10	

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

QC Batch: 594492 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004

METHOD BLANK: 3136690 Matrix: Water
Associated Lab Samples: 92517740001, 92517740002, 92517740003, 92517740004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/22/21 16:33	
Fluoride	mg/L	ND	0.10	0.050	01/22/21 16:33	
Sulfate	mg/L	ND	1.0	0.50	01/22/21 16:33	

LABORATORY CONTROL SAMPLE: 3136691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3136692 3136693

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92517425005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.4	50	50	54.2	54.4	106	106	90-110	0	10		
Fluoride	mg/L	0.16	2.5	2.5	2.7	2.7	100	103	90-110	2	10		
Sulfate	mg/L	2.6	50	50	55.4	55.8	106	106	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3136694 3136695

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92517425015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	53.2	53.3	106	107	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.2	2.4	86	95	90-110	9	10	M1	
Sulfate	mg/L	ND	50	50	53.4	53.3	106	106	90-110	0	10		

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QUALITY CONTROL DATA

Project: BOWEN AP-1 BACKGROUND
Pace Project No.: 92517740

QC Batch: 594878 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92517740005, 92517740006

METHOD BLANK: 3138480 Matrix: Water
Associated Lab Samples: 92517740005, 92517740006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/24/21 21:50	
Fluoride	mg/L	ND	0.10	0.050	01/24/21 21:50	
Sulfate	mg/L	ND	1.0	0.50	01/24/21 21:50	

LABORATORY CONTROL SAMPLE: 3138481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	54.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138482 3138483

Parameter	Units	92517740005		3138482		3138483		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	ND	50	50	53.9	53.4	108	107	90-110	1	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.6	2.5	103	98	90-110	5	10	
Sulfate	mg/L	ND	ND	50	50	55.4	54.9	111	110	90-110	1	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138484 3138485

Parameter	Units	92517704001		3138484		3138485		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	377	377	50	50	439	424	124	93	90-110	3	10 M6	
Fluoride	mg/L	0.23	0.23	2.5	2.5	ND	ND	-9	-9	90-110		10 M1	
Sulfate	mg/L	597	597	50	50	676	646	158	99	90-110	4	10 M6	

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QUALIFIERS

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP-1 BACKGROUND

Pace Project No.: 92517740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92517740001	BGWC-14A				
92517740002	BGWA-47D				
92517740003	BGWA-48D				
92517740001	BGWC-14A	EPA 3010A	596653	EPA 6010D	596772
92517740002	BGWA-47D	EPA 3010A	596653	EPA 6010D	596772
92517740003	BGWA-48D	EPA 3010A	596653	EPA 6010D	596772
92517740004	FBL012021	EPA 3010A	596653	EPA 6010D	596772
92517740005	EQBL012021	EPA 3010A	596653	EPA 6010D	596772
92517740006	DUP-1	EPA 3010A	596653	EPA 6010D	596772
92517740001	BGWC-14A	EPA 3005A	596887	EPA 6020B	597015
92517740002	BGWA-47D	EPA 3005A	596887	EPA 6020B	597015
92517740003	BGWA-48D	EPA 3005A	596887	EPA 6020B	597015
92517740004	FBL012021	EPA 3005A	596887	EPA 6020B	597015
92517740005	EQBL012021	EPA 3005A	596887	EPA 6020B	597015
92517740006	DUP-1	EPA 3005A	596887	EPA 6020B	597015
92517740001	BGWC-14A	EPA 7470A	594783	EPA 7470A	595257
92517740002	BGWA-47D	EPA 7470A	594783	EPA 7470A	595257
92517740003	BGWA-48D	EPA 7470A	594783	EPA 7470A	595257
92517740004	FBL012021	EPA 7470A	594783	EPA 7470A	595257
92517740005	EQBL012021	EPA 7470A	594783	EPA 7470A	595257
92517740006	DUP-1	EPA 7470A	594783	EPA 7470A	595257
92517740001	BGWC-14A	SM 2450C-2011	594404		
92517740002	BGWA-47D	SM 2450C-2011	594404		
92517740003	BGWA-48D	SM 2450C-2011	594404		
92517740004	FBL012021	SM 2450C-2011	594404		
92517740005	EQBL012021	SM 2450C-2011	594404		
92517740006	DUP-1	SM 2450C-2011	594404		
92517740001	BGWC-14A	EPA 300.0 Rev 2.1 1993	594492		
92517740002	BGWA-47D	EPA 300.0 Rev 2.1 1993	594492		
92517740003	BGWA-48D	EPA 300.0 Rev 2.1 1993	594492		
92517740004	FBL012021	EPA 300.0 Rev 2.1 1993	594492		
92517740005	EQBL012021	EPA 300.0 Rev 2.1 1993	594878		
92517740006	DUP-1	EPA 300.0 Rev 2.1 1993	594878		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: **92517740**

Courier: Commercial Fed Ex Pace UPS USPS Other: Client



Date/Initials Person Examining Contents: WT 11/21/21

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Biological Tissue Frozen?

Yes No N/A

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) ±0.4

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92517740

PM: KLH1

Due Date: 02/04/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VGST-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power, 1003 Weatherstone Parkway, Woodstock, GA 30188

Section B Required Project Information: Report To: SCS Contacts, Copy To: Geosynthetic Contacts

Section C Invoice Information: Attention: Company Name: Address: Pico Quota: Pico Project Manager: Kevin Herring, Pico Profile #: 10844

Page: 1 of 1

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses/Tests	Requested Analyses Filtered (Y/N)	Residual Chlorine (Y/N)	PH: 7.12 PH: 6.83 PH: 7.31	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other
1	BGWC-14A	WT G	1/26/21	11:17		5	2	3										
2	BGWA-47D	WT G	1/26/21	15:45		5	2	3										
3	BGWA-48D	WT G	1/26/21	12:32		5	2	3										
4	BLO 12021	WT G	1/26/21	14:40		5	2	3										
5	EOBL O 12021	WT G	1/26/21	14:43		5	2	3										
6	DUP-1	WT G	1/26/21	--		5	2	3										
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS: Will Lackner / Resolute 1/21/21 0931 *WLLC / Macce*

RELINQUISHED BY/AFFILIATION: DATE: TIME: ACCEPTED BY/AFFILIATION: DATE: TIME:

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: William Lackner, Joe Booth
SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 1/20/21

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

February 18, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP BACKGROUND RADS
Pace Project No.: 92519074

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92519074001	BGWC-51	Water	01/28/21 11:46	01/28/21 13:52
92519074002	BGWC-52	Water	01/28/21 10:40	01/28/21 13:52
92519074003	DUP-1	Water	01/28/21 00:00	01/28/21 13:52
92519074004	FBL012821	Water	01/28/21 09:52	01/28/21 13:52
92519074005	EQBL012821	Water	01/28/21 10:02	01/28/21 13:52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92519074001	BGWC-51	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92519074002	BGWC-52	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92519074003	DUP-1	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92519074004	FBL012821	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92519074005	EQBL012821	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92519074001	BGWC-51					
EPA 9315	Radium-226	0.444 ± 0.384 (0.760) C:89% T:NA	pCi/L		02/09/21 08:20	
EPA 9320	Radium-228	-0.922 ± 1.91 (4.57) C:74% T:84%	pCi/L		02/12/21 11:39	
Total Radium Calculation	Total Radium	0.444 ± 2.29 (5.33)	pCi/L		02/16/21 11:07	
92519074002	BGWC-52					
EPA 9315	Radium-226	0.831 ± 0.430 (0.650) C:81% T:NA	pCi/L		02/09/21 08:01	
EPA 9320	Radium-228	0.762 ± 0.431 (0.790) C:71% T:91%	pCi/L		02/12/21 11:39	
Total Radium Calculation	Total Radium	1.59 ± 0.861 (1.44)	pCi/L		02/16/21 11:07	
92519074003	DUP-1					
EPA 9315	Radium-226	0.585 ± 0.169 (0.165) C:89% T:NA	pCi/L		02/08/21 18:25	
EPA 9320	Radium-228	0.849 ± 0.438 (0.769) C:71% T:93%	pCi/L		02/12/21 11:39	
Total Radium Calculation	Total Radium	1.43 ± 0.607 (0.934)	pCi/L		02/16/21 11:07	
92519074004	FBL012821					
EPA 9315	Radium-226	0.146 ± 0.117 (0.205) C:75% T:NA	pCi/L		02/08/21 18:29	
EPA 9320	Radium-228	0.000 ± 0.592 (1.36) C:70% T:80%	pCi/L		02/12/21 11:42	
Total Radium Calculation	Total Radium	0.146 ± 0.709 (1.57)	pCi/L		02/16/21 11:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP BACKGROUND RADS
Pace Project No.: 92519074

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92519074005	EQBL012821					
EPA 9315	Radium-226	0.0674 ± 0.102 (0.199) C:80% T:NA	pCi/L		02/08/21 18:29	
EPA 9320	Radium-228	0.192 ± 0.509 (1.13) C:73% T:92%	pCi/L		02/12/21 11:42	
Total Radium Calculation	Total Radium	0.259 ± 0.611 (1.33)	pCi/L		02/16/21 11:07	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-51 Lab ID: 92519074001 Collected: 01/28/21 11:46 Received: 01/28/21 13:52 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.444 ± 0.384 (0.760) C:89% T:NA	pCi/L	02/09/21 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.922 ± 1.91 (4.57) C:74% T:84%	pCi/L	02/12/21 11:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.444 ± 2.29 (5.33)	pCi/L	02/16/21 11:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-52 Lab ID: 92519074002 Collected: 01/28/21 10:40 Received: 01/28/21 13:52 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.831 ± 0.430 (0.650) C:81% T:NA	pCi/L	02/09/21 08:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.762 ± 0.431 (0.790) C:71% T:91%	pCi/L	02/12/21 11:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.59 ± 0.861 (1.44)	pCi/L	02/16/21 11:07	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Sample: DUP-1 **Lab ID: 92519074003** Collected: 01/28/21 00:00 Received: 01/28/21 13:52 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.585 ± 0.169 (0.165) C:89% T:NA	pCi/L	02/08/21 18:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.849 ± 0.438 (0.769) C:71% T:93%	pCi/L	02/12/21 11:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.43 ± 0.607 (0.934)	pCi/L	02/16/21 11:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL012821 Lab ID: 92519074004 Collected: 01/28/21 09:52 Received: 01/28/21 13:52 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.146 ± 0.117 (0.205) C:75% T:NA	pCi/L	02/08/21 18:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.000 ± 0.592 (1.36) C:70% T:80%	pCi/L	02/12/21 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.146 ± 0.709 (1.57)	pCi/L	02/16/21 11:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL012821 Lab ID: 92519074005 Collected: 01/28/21 10:02 Received: 01/28/21 13:52 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0674 ± 0.102 (0.199) C:80% T:NA	pCi/L	02/08/21 18:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.192 ± 0.509 (1.13) C:73% T:92%	pCi/L	02/12/21 11:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.259 ± 0.611 (1.33)	pCi/L	02/16/21 11:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

QC Batch: 433216

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92519074001, 92519074002, 92519074003, 92519074004, 92519074005

METHOD BLANK: 2091814

Matrix: Water

Associated Lab Samples: 92519074001, 92519074002, 92519074003, 92519074004, 92519074005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.138 ± 0.326 (0.726) C:71% T:81%	pCi/L	02/12/21 11:39	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

QC Batch: 433327

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92519074001, 92519074002, 92519074003, 92519074004, 92519074005

METHOD BLANK: 2092295

Matrix: Water

Associated Lab Samples: 92519074001, 92519074002, 92519074003, 92519074004, 92519074005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0319 ± 0.214 (0.551) C:89% T:NA	pCi/L	02/09/21 08:26	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN AP BACKGROUND RADS
Pace Project No.: 92519074

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 92519074001

[1] Sample required re-analysis for Ra-228. Limited volume available, resulting in elevated MDC.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP BACKGROUND RADS

Pace Project No.: 92519074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92519074001	BGWC-51	EPA 9315	433327		
92519074002	BGWC-52	EPA 9315	433327		
92519074003	DUP-1	EPA 9315	433327		
92519074004	FBL012821	EPA 9315	433327		
92519074005	EQBL012821	EPA 9315	433327		
92519074001	BGWC-51	EPA 9320	433216		
92519074002	BGWC-52	EPA 9320	433216		
92519074003	DUP-1	EPA 9320	433216		
92519074004	FBL012821	EPA 9320	433216		
92519074005	EQBL012821	EPA 9320	433216		
92519074001	BGWC-51	Total Radium Calculation	435135		
92519074002	BGWC-52	Total Radium Calculation	435135		
92519074003	DUP-1	Total Radium Calculation	435135		
92519074004	FBL012821	Total Radium Calculation	435135		
92519074005	EQBL012821	Total Radium Calculation	435135		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #: **WO#: 92519074**

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



92519074

Date/Initials Person Examining Contents: WT 1/28/25

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 5.8 Correction Factor: Add/Subtract (°C) 2.0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 6.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92519074**
 PH: KLH1 Due Date: 02/18/21
 CLIENT: GR-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
 **Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/BK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1003 Weatherstone Parkway
 Odessa, GA 30156
 Attn: boren.henry@ge.com
 Phone: (678)444-0415 Fax: _____
 Quoted Due Date: _____

Section B
 Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order #: _____
 Project Name: Bowen AP Background
 Project #: _____

Section C
 Invoicing Information:
 Advertiser: _____
 Company Name: _____
 Address: _____
 POC Name: _____
 POC Title: _____
 POC Email: boren.henry@ge.com
 POC Phone: 10844

Regulatory Agency
 State / Location: GA

ITEM #	SAMPLE ID One character per box. (A-Z, 0-9 / . -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test				Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III & IV Metals	Cl, F, SO4	TDS	
1	BGWC-91	WT	11/21/14	11/4/16	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
2	BGWC-92	WT	11/21/14	10/20	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
3	DUP-1	WT	11/21/14	-	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
4	FBLD13821	WT	11/21/14	11/21/14	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
5	FR	WT	11/21/14	11/21/14	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
6	EOBL 017821	WT	11/21/14	11/21/14	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
7	EOBL	WT	11/21/14	11/21/14	5	2	3	X	X	X	X	X	X	X	X	X	X	X	
8																			
9																			
10																			
11																			
12																			

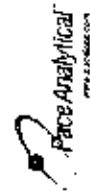
ADDITIONAL COMMENTS
 Released by/Affiliation: _____
 Date: 11/21/14
 Time: _____
 Accepted by/Affiliation: _____
 Date: 11/21/14
 Time: 5:28

SAMPLER NAME AND SIGNATURE
 Name of Sampler: _____
 Signature of Sampler: _____
 Date Signed: 11/21/14

SAMPLE CONDITIONS

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields. Highlighted in Yellow.

Test: Ra-226
 Analyst: JULY
 Date: 2/8/2021
 Worklist: S8639
 Matrix: DW

Method Blank Assessment	
MB Sample ID	20022705
MB Concentration	0.032
MB Counting Uncertainty	0.214
MB MDC	0.551
MB Numerical Performance Indicator	0.29
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment	
LCS ID	N
LCS58679	LCS059639
Count Date	2/9/2021
Spike I.D.	19-033
Decay Corrected Spike Concentration (pCi/mL)	24.040
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.915
Target Conc. (pCi/L, g, F)	4.669
Uncertainty (Calculated)	0.056
Result (pCi/L, g, F)	4.791
LCS/LCSD Counting Uncertainty (pCi/L, g, F)	0.924
Numerical Performance Indicator	0.29
Percent Recovery	102.00%
Status vs Numerical Indicator	N/A
Status vs Recovery	Pass
Upper % Recovery Limit	125%
Lower % Recovery Limit	75%

Duplicate Sample Assessment	
Sample I.D.	92518305003
Duplicate Sample I.D.	925183059030UP
Sample Result Counting Uncertainty (pCi/L, g, F)	0.158
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)	0.259
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)	-0.029
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator	0.944
Duplicate RPD	291.66%
Duplicate Status vs Numerical Indicator	N/A
Duplicate Status vs RPD	Fail
% RPD Limit	25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

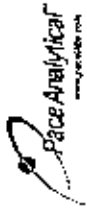
*** Batch must be re-prepared due to unacceptable precision

Handwritten signature

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS ID Sample MSD I.D. Spike I.D. MS/MSD Decay Corrected Spike Concentration (pCi/mL) Spike Volume Used in MSD (mL) MS Aliquot (L, g, F) MS Target Conc (pCi/L, g, F) MSD Aliquot (L, g, F) MSD Target Conc. (pCi/L, g, F) MS Spike Uncertainty (calculated) MSD Spike Uncertainty (calculated) Sample Result: Counting Uncertainty (pCi/L, g, F) Sample Matrix Spike Result: Matrix Spike Result: Counting Uncertainty (pCi/L, g, F) Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Counting Uncertainty (pCi/L, g, F) MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limit: MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS ID Sample MSD I.D. Matrix Spike Result: Counting Uncertainty (pCi/L, g, F) Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Counting Uncertainty (pCi/L, g, F) Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Analysis Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: JJY
 Date: 2/8/2021
 Worksheet: 58639
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2093295
MB Concentration:	0.032
MB Counting Uncertainty:	0.214
MB MDC:	0.551
MB Numerical Performance Indicator:	0.29
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		2/9/2021	2/9/2021
Spike ID:		19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):		24.040	24.040
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.515	0.512
Target Conc. (pCi/L, g, F):		4.869	4.839
Uncertainty (Calculated):		0.056	0.056
Result (pCi/L, g, F):		4.791	4.423
Result (pCi/L, g, F):		0.824	0.768
Numerical Performance Indicator:		0.29	-0.03
Percent Recovery:		102.60%	94.11%
Status vs Numerical Indicator:		Pass	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limit:		125%	125%
Lower % Recovery Limit:		75%	75%

Duplicate Sample Assessment		LCSD (Y or N)?	Y
Sample ID:		LCSD58639	LCSD58639
Duplicate Sample ID:		LCSD58639	LCSD58639
Sample Result (pCi/L, g, F):		4.791	4.791
Sample Duplicate Result (pCi/L, g, F):		0.824	0.824
Sample Duplicate Result (pCi/L, g, F):		4.423	4.423
Sample Duplicate Result (pCi/L, g, F):		0.798	0.798
Are sample and/or duplicate results below RL?		NO	NO
Duplicate Numerical Performance Indicator:		0.828	0.828
Duplicate (Based on the LCSD Percent Recoveries) Duplicate RPD:		8.63%	8.63%
Duplicate Status vs Numerical Indicator:		N/A	N/A
Duplicate Status vs RPD:		Pass	Pass
% RPD Limit:		25%	25%

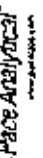
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample ID:			
Sample MS ID:			
Sample MSD ID:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Sample Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limit:			
MS/MSD Lower % Recovery Limit:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	
Sample MS ID:	
Sample MSD ID:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result:	
Duplicate Numerical Performance Indicator:	
Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 2/10/2021
Worksheet: 58611
Matrix: WT

Method Blank Assessment

MB Sample ID	2091814
MB concentration	0.138
MB 2 Sigma CSU	0.328
MB MDC	0.728
MB Numerical Performance Indicator	0.83
MB Status vs Numerical Indicator	Pass
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment

Count Date	LCS01(Y or N)?	Y	N
2/12/2021	LCS058611	2/12/2021	
2/10/2021	LCS058611	21-003	
2/10/2021	LCS058611	38-853	
2/10/2021	LCS058611	0.10	
2/10/2021	LCS058611	0.806	
2/10/2021	LCS058611	4.818	
2/10/2021	LCS058611	0.234	
2/10/2021	LCS058611	4.855	
2/10/2021	LCS058611	1.066	
2/10/2021	LCS058611	0.90	
2/10/2021	LCS058611	111.36%	
2/10/2021	LCS058611	N/A	
2/10/2021	LCS058611	Pass	
2/10/2021	LCS058611	135%	
2/10/2021	LCS058611	80%	

Duplicate Sample Assessment

Sample I.D.	LCS058611	Enter Duplicate sample IDs if other than LCS058611 in the space below.
Duplicate Sample I.D.	LCS058611	
Sample Result (pCi/L, g, F)	5.366	
Sample Duplicate Result (pCi/L, g, F)	1.169	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F)	4.853	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F)	1.056	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator	0.879	
Duplicate Numerical Performance Indicator (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD	13.42%	
Duplicate Status vs Numerical Indicator	Pass	
Duplicate Status vs RPD	Pass	
% RPD Limit	38%	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Sample Collection Date		MS/MSD 1	MS/MSD 2
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Spike I.D.			
MS/MSD Decay Corrected Spike Concentration (pCi/mL)			
Spike Volume Used in MS (mL)			
Spike Volume Used in MSD (mL)			
MS Aliquot (L, g, F)			
MS Target Conc. (pCi/L, g, F)			
MSD Aliquot (L, g, F)			
MSD Target Conc. (pCi/L, g, F)			
MS Spike Uncertainty (calculated)			
MSD Spike Uncertainty (calculated)			
Sample Result 2 Sigma CSU (pCi/L, g, F)			
Sample Matrix Spike Result			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)			
Sample Matrix Spike Duplicate Result			
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)			
MS Numerical Performance Indicator			
MSD Numerical Performance Indicator			
MS Percent Recovery			
MSD Percent Recovery			
MS Status vs Numerical Indicator			
MSD Status vs Numerical Indicator			
MS Status vs Recovery			
MSD Status vs Recovery			
MS/MSD Upper % Recovery Limit			
MS/MSD Lower % Recovery Limit			

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	
Duplicate Numerical Performance Indicator	
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD	
MS/MSD Duplicate Status vs Numerical Indicator	
MS/MSD Duplicate Status vs RPD	
% RPD Limit	

* Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Optimized

February 10, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Co. Services
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92519078001	BGWC-51	Water	01/28/21 11:46	01/28/21 13:52
92519078002	BGWC-52	Water	01/28/21 10:40	01/28/21 13:52
92519078003	DUP-1	Water	01/28/21 00:00	01/28/21 13:52
92519078004	FBL012821	Water	01/28/21 09:52	01/28/21 13:52
92519078005	EQBL012821	Water	01/28/21 10:02	01/28/21 13:52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92519078001	BGWC-51	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92519078002	BGWC-52	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92519078003	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92519078004	FBL012821	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92519078005	EQBL012821	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92519078001	BGWC-51					
	Performed by	CUSTOME			01/29/21 10:25	
		R				
	pH	6.81	Std. Units		01/29/21 10:25	
EPA 6010D	Calcium	624	mg/L	10.0	02/02/21 15:07	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	02/03/21 15:41	
EPA 6020B	Barium	0.061	mg/L	0.010	02/03/21 15:41	
EPA 6020B	Beryllium	0.000083J	mg/L	0.0030	02/03/21 15:41	
EPA 6020B	Boron	24.9	mg/L	1.0	02/04/21 14:31	
EPA 6020B	Cadmium	0.00031J	mg/L	0.0025	02/03/21 15:41	
EPA 6020B	Lead	0.00016J	mg/L	0.0050	02/03/21 15:41	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	02/03/21 15:41	
EPA 6020B	Selenium	0.014	mg/L	0.010	02/03/21 15:41	
EPA 6020B	Thallium	0.00020J	mg/L	0.0010	02/03/21 15:41	
EPA 7470A	Mercury	0.0046	mg/L	0.00050	01/29/21 12:30	
SM 2450C-2011	Total Dissolved Solids	2950	mg/L	50.0	01/29/21 11:31	PK
EPA 300.0 Rev 2.1 1993	Chloride	835	mg/L	11.0	01/30/21 11:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	01/30/21 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	562	mg/L	11.0	01/30/21 11:37	
92519078002	BGWC-52					
	Performed by	CUSTOME			01/29/21 10:25	
		R				
	pH	7.01	Std. Units		01/29/21 10:25	
EPA 6010D	Calcium	350	mg/L	10.0	02/02/21 15:12	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	02/03/21 16:04	B
EPA 6020B	Arsenic	0.00099J	mg/L	0.0050	02/03/21 16:04	
EPA 6020B	Barium	0.076	mg/L	0.010	02/03/21 16:04	
EPA 6020B	Boron	9.7	mg/L	0.10	02/03/21 16:04	
EPA 6020B	Cadmium	0.00025J	mg/L	0.0025	02/03/21 16:04	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/03/21 16:04	
EPA 6020B	Lead	0.000054J	mg/L	0.0050	02/03/21 16:04	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/03/21 16:04	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/03/21 16:04	
EPA 6020B	Thallium	0.00045J	mg/L	0.0010	02/03/21 16:04	
EPA 7470A	Mercury	0.00019J	mg/L	0.00050	01/29/21 12:37	
SM 2450C-2011	Total Dissolved Solids	1460	mg/L	50.0	01/29/21 11:31	PK
EPA 300.0 Rev 2.1 1993	Chloride	484	mg/L	11.0	01/30/21 11:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	01/30/21 02:22	
EPA 300.0 Rev 2.1 1993	Sulfate	308	mg/L	11.0	01/30/21 11:51	
92519078003	DUP-1					
EPA 6010D	Calcium	359	mg/L	10.0	02/02/21 15:17	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	02/03/21 16:10	B
EPA 6020B	Barium	0.079	mg/L	0.010	02/03/21 16:10	
EPA 6020B	Boron	10	mg/L	0.10	02/03/21 16:10	
EPA 6020B	Cadmium	0.00024J	mg/L	0.0025	02/03/21 16:10	
EPA 6020B	Cobalt	0.0049J	mg/L	0.0050	02/03/21 16:10	
EPA 6020B	Lead	0.000053J	mg/L	0.0050	02/03/21 16:10	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/03/21 16:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92519078003	DUP-1					
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/03/21 16:10	
EPA 6020B	Thallium	0.00046J	mg/L	0.0010	02/03/21 16:10	
EPA 7470A	Mercury	0.00018J	mg/L	0.00050	01/29/21 12:40	
SM 2450C-2011	Total Dissolved Solids	1740	mg/L	50.0	01/29/21 11:31	PK
EPA 300.0 Rev 2.1 1993	Chloride	489	mg/L	10.0	01/30/21 12:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	01/30/21 02:37	
EPA 300.0 Rev 2.1 1993	Sulfate	312	mg/L	10.0	01/30/21 12:05	
92519078004	FBL012821					
EPA 6020B	Boron	0.011J	mg/L	0.10	02/04/21 14:48	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	01/29/21 12:42	
EPA 300.0 Rev 2.1 1993	Chloride	27.1	mg/L	1.0	01/30/21 02:51	
EPA 300.0 Rev 2.1 1993	Sulfate	19.3	mg/L	1.0	01/30/21 02:51	
92519078005	EQBL012821					
EPA 6020B	Boron	0.0052J	mg/L	0.10	02/04/21 14:54	
EPA 6020B	Chromium	0.00092J	mg/L	0.010	02/04/21 14:54	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	01/29/21 12:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

Sample: BGWC-51		Lab ID: 92519078001		Collected: 01/28/21 11:46		Received: 01/28/21 13:52		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/29/21 10:25		
pH	6.81	Std. Units			1		01/29/21 10:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	624	mg/L	10.0	0.70	10	02/01/21 11:55	02/02/21 15:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 07:45	02/03/21 15:41	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00078	1	02/02/21 07:45	02/03/21 15:41	7440-38-2	
Barium	0.061	mg/L	0.010	0.00071	1	02/02/21 07:45	02/03/21 15:41	7440-39-3	
Beryllium	0.000083J	mg/L	0.0030	0.000046	1	02/02/21 07:45	02/03/21 15:41	7440-41-7	
Boron	24.9	mg/L	1.0	0.052	10	02/02/21 07:45	02/04/21 14:31	7440-42-8	
Cadmium	0.00031J	mg/L	0.0025	0.00012	1	02/02/21 07:45	02/03/21 15:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 07:45	02/03/21 15:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 07:45	02/03/21 15:41	7440-48-4	
Lead	0.00016J	mg/L	0.0050	0.000036	1	02/02/21 07:45	02/03/21 15:41	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00081	1	02/02/21 07:45	02/03/21 15:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 07:45	02/03/21 15:41	7439-98-7	
Selenium	0.014	mg/L	0.010	0.0016	1	02/02/21 07:45	02/03/21 15:41	7782-49-2	
Thallium	0.00020J	mg/L	0.0010	0.00014	1	02/02/21 07:45	02/03/21 15:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.0046	mg/L	0.00050	0.000078	1	01/29/21 07:45	01/29/21 12:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2950	mg/L	50.0	50.0	1		01/29/21 11:31		PK
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	835	mg/L	11.0	6.6	11		01/30/21 11:37	16887-00-6	
Fluoride	0.17	mg/L	0.10	0.050	1		01/30/21 02:08	16984-48-8	
Sulfate	562	mg/L	11.0	5.5	11		01/30/21 11:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Sample: BGWC-52		Lab ID: 92519078002		Collected: 01/28/21 10:40		Received: 01/28/21 13:52		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		01/29/21 10:25		
pH	7.01	Std. Units			1		01/29/21 10:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	350	mg/L	10.0	0.70	10	02/01/21 11:55	02/02/21 15:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	02/02/21 07:45	02/03/21 16:04	7440-36-0	B
Arsenic	0.00099J	mg/L	0.0050	0.00078	1	02/02/21 07:45	02/03/21 16:04	7440-38-2	
Barium	0.076	mg/L	0.010	0.00071	1	02/02/21 07:45	02/03/21 16:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 07:45	02/03/21 16:04	7440-41-7	
Boron	9.7	mg/L	0.10	0.0052	1	02/02/21 07:45	02/03/21 16:04	7440-42-8	
Cadmium	0.00025J	mg/L	0.0025	0.00012	1	02/02/21 07:45	02/03/21 16:04	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 07:45	02/03/21 16:04	7440-47-3	
Cobalt	0.0048J	mg/L	0.0050	0.00038	1	02/02/21 07:45	02/03/21 16:04	7440-48-4	
Lead	0.000054J	mg/L	0.0050	0.000036	1	02/02/21 07:45	02/03/21 16:04	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00081	1	02/02/21 07:45	02/03/21 16:04	7439-93-2	
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/02/21 07:45	02/03/21 16:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 07:45	02/03/21 16:04	7782-49-2	
Thallium	0.00045J	mg/L	0.0010	0.00014	1	02/02/21 07:45	02/03/21 16:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00019J	mg/L	0.00050	0.000078	1	01/29/21 07:45	01/29/21 12:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1460	mg/L	50.0	50.0	1		01/29/21 11:31		PK
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	484	mg/L	11.0	6.6	11		01/30/21 11:51	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		01/30/21 02:22	16984-48-8	
Sulfate	308	mg/L	11.0	5.5	11		01/30/21 11:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

Sample: DUP-1		Lab ID: 92519078003		Collected: 01/28/21 00:00		Received: 01/28/21 13:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	359	mg/L	10.0	0.70	10	02/01/21 11:55	02/02/21 15:17	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00067J	mg/L	0.0030	0.00028	1	02/02/21 07:45	02/03/21 16:10	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 07:45	02/03/21 16:10	7440-38-2		
Barium	0.079	mg/L	0.010	0.00071	1	02/02/21 07:45	02/03/21 16:10	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 07:45	02/03/21 16:10	7440-41-7		
Boron	10	mg/L	0.10	0.0052	1	02/02/21 07:45	02/03/21 16:10	7440-42-8		
Cadmium	0.00024J	mg/L	0.0025	0.00012	1	02/02/21 07:45	02/03/21 16:10	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 07:45	02/03/21 16:10	7440-47-3		
Cobalt	0.0049J	mg/L	0.0050	0.00038	1	02/02/21 07:45	02/03/21 16:10	7440-48-4		
Lead	0.000053J	mg/L	0.0050	0.000036	1	02/02/21 07:45	02/03/21 16:10	7439-92-1		
Lithium	0.0037J	mg/L	0.030	0.00081	1	02/02/21 07:45	02/03/21 16:10	7439-93-2		
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/02/21 07:45	02/03/21 16:10	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 07:45	02/03/21 16:10	7782-49-2		
Thallium	0.00046J	mg/L	0.0010	0.00014	1	02/02/21 07:45	02/03/21 16:10	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00018J	mg/L	0.00050	0.000078	1	01/29/21 07:45	01/29/21 12:40	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	1740	mg/L	50.0	50.0	1		01/29/21 11:31		PK	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	489	mg/L	10.0	6.0	10		01/30/21 12:05	16887-00-6		
Fluoride	0.081J	mg/L	0.10	0.050	1		01/30/21 02:37	16984-48-8		
Sulfate	312	mg/L	10.0	5.0	10		01/30/21 12:05	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Sample: FBL012821		Lab ID: 92519078004		Collected: 01/28/21 09:52		Received: 01/28/21 13:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	02/01/21 11:55	02/01/21 19:32	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 07:45	02/04/21 14:48	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 07:45	02/04/21 14:48	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/02/21 07:45	02/04/21 14:48	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 07:45	02/04/21 14:48	7440-41-7		
Boron	0.011J	mg/L	0.10	0.0052	1	02/02/21 07:45	02/04/21 14:48	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 07:45	02/04/21 14:48	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/02/21 07:45	02/04/21 14:48	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 07:45	02/04/21 14:48	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 07:45	02/04/21 14:48	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/02/21 07:45	02/04/21 14:48	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 07:45	02/04/21 14:48	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 07:45	02/04/21 14:48	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 07:45	02/04/21 14:48	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00015J	mg/L	0.00050	0.000078	1	01/29/21 07:45	01/29/21 12:42	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/29/21 11:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	27.1	mg/L	1.0	0.60	1		01/30/21 02:51	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/30/21 02:51	16984-48-8		
Sulfate	19.3	mg/L	1.0	0.50	1		01/30/21 02:51	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Sample: EQBL012821		Lab ID: 92519078005		Collected: 01/28/21 10:02		Received: 01/28/21 13:52		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	02/01/21 11:55	02/01/21 19:37	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/02/21 07:45	02/04/21 14:54	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/02/21 07:45	02/04/21 14:54	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/02/21 07:45	02/04/21 14:54	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/02/21 07:45	02/04/21 14:54	7440-41-7		
Boron	0.0052J	mg/L	0.10	0.0052	1	02/02/21 07:45	02/04/21 14:54	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/02/21 07:45	02/04/21 14:54	7440-43-9		
Chromium	0.00092J	mg/L	0.010	0.00055	1	02/02/21 07:45	02/04/21 14:54	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/02/21 07:45	02/04/21 14:54	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/02/21 07:45	02/04/21 14:54	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/02/21 07:45	02/04/21 14:54	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/02/21 07:45	02/04/21 14:54	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/02/21 07:45	02/04/21 14:54	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/02/21 07:45	02/04/21 14:54	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.00015J	mg/L	0.00050	0.000078	1	01/29/21 07:45	01/29/21 12:44	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		01/29/21 11:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/30/21 03:06	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		01/30/21 03:06	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		01/30/21 03:06	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

QC Batch: 596683 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

METHOD BLANK: 3146865 Matrix: Water
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	02/01/21 18:30	

LABORATORY CONTROL SAMPLE: 3146866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146867 3146868

Parameter	Units	3146867		3146868		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92517911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	72.5	1	1	70.9	72.6	-153	11	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

QC Batch: 596788 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

METHOD BLANK: 3147420 Matrix: Water
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00045J	0.0030	0.00028	02/03/21 15:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/03/21 15:30	
Barium	mg/L	ND	0.010	0.00071	02/03/21 15:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/03/21 15:30	
Boron	mg/L	ND	0.10	0.0052	02/03/21 15:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/03/21 15:30	
Chromium	mg/L	ND	0.010	0.00055	02/03/21 15:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/03/21 15:30	
Lead	mg/L	ND	0.0050	0.000036	02/03/21 15:30	
Lithium	mg/L	ND	0.030	0.00081	02/03/21 15:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/03/21 15:30	
Selenium	mg/L	ND	0.010	0.0016	02/03/21 15:30	
Thallium	mg/L	ND	0.0010	0.00014	02/03/21 15:30	

LABORATORY CONTROL SAMPLE: 3147421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	117	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.10	105	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147422 3147423

Parameter	Units	92519078001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.11	0.1	0.11	114	111	75-125	3	20	
Arsenic	mg/L	0.0012J	0.1	0.10	0.1	0.10	103	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

Parameter	Units	3147422		3147423		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92519078001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.061	0.1	0.1	0.16	0.15	101	87	75-125	9	20		
Beryllium	mg/L	0.000083J	0.1	0.1	0.087	0.089	87	88	75-125	1	20		
Boron	mg/L	24.9	1	1	25.7	24.6	81	-27	75-125	4	20		
Cadmium	mg/L	0.00031J	0.1	0.1	0.093	0.094	92	94	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20		
Lead	mg/L	0.00016J	0.1	0.1	0.089	0.083	88	83	75-125	6	20		
Lithium	mg/L	0.0017J	0.1	0.1	0.094	0.093	92	91	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Selenium	mg/L	0.014	0.1	0.1	0.11	0.11	99	98	75-125	1	20		
Thallium	mg/L	0.00020J	0.1	0.1	0.090	0.084	90	83	75-125	8	20		

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

QC Batch: 596026 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

METHOD BLANK: 3143582 Matrix: Water
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	01/29/21 12:09	

LABORATORY CONTROL SAMPLE: 3143583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3143584 3143585

Parameter	Units	3143584		3143585		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92518679001 ND	0.0025	0.0025	0.0027	0.0025	107	99	75-125	7	20

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

QC Batch:	596261	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

METHOD BLANK: 3144721 Matrix: Water
Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	01/29/21 11:31	

LABORATORY CONTROL SAMPLE: 3144722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 3144723

Parameter	Units	92518889001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	242	6	10	

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QUALITY CONTROL DATA

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

QC Batch: 596400 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

METHOD BLANK: 3145450 Matrix: Water
 Associated Lab Samples: 92519078001, 92519078002, 92519078003, 92519078004, 92519078005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/30/21 00:56	
Fluoride	mg/L	ND	0.10	0.050	01/30/21 00:56	
Sulfate	mg/L	ND	1.0	0.50	01/30/21 00:56	

LABORATORY CONTROL SAMPLE: 3145451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145452 3145453

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92518884001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	10.7	10.7	50	50	58.0	59.5	95	97	90-110	2	10	
Fluoride	mg/L	0.25	0.25	2.5	2.5	2.5	2.6	90	93	90-110	3	10	
Sulfate	mg/L	9.9	9.9	50	50	57.5	59.1	95	98	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145816 3145817

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92518671024	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	13.4	13.4	50	50	63.1	64.5	99	102	90-110	2	10	
Fluoride	mg/L	0.16	0.16	2.5	2.5	2.5	3.4	94	131	90-110	31	10	M1,R1
Sulfate	mg/L	2.1	2.1	50	50	52.6	54.2	101	104	90-110	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN AP BACKGROUND

Pace Project No.: 92519078

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

PK Sample volume was decreased because complete filtration was not achieved within the maximum method-specified timeframe.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP BACKGROUND
Pace Project No.: 92519078

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92519078001	BGWC-51				
92519078002	BGWC-52				
92519078001	BGWC-51	EPA 3010A	596683	EPA 6010D	596770
92519078002	BGWC-52	EPA 3010A	596683	EPA 6010D	596770
92519078003	DUP-1	EPA 3010A	596683	EPA 6010D	596770
92519078004	FBL012821	EPA 3010A	596683	EPA 6010D	596770
92519078005	EQBL012821	EPA 3010A	596683	EPA 6010D	596770
92519078001	BGWC-51	EPA 3005A	596788	EPA 6020B	596890
92519078002	BGWC-52	EPA 3005A	596788	EPA 6020B	596890
92519078003	DUP-1	EPA 3005A	596788	EPA 6020B	596890
92519078004	FBL012821	EPA 3005A	596788	EPA 6020B	596890
92519078005	EQBL012821	EPA 3005A	596788	EPA 6020B	596890
92519078001	BGWC-51	EPA 7470A	596026	EPA 7470A	596304
92519078002	BGWC-52	EPA 7470A	596026	EPA 7470A	596304
92519078003	DUP-1	EPA 7470A	596026	EPA 7470A	596304
92519078004	FBL012821	EPA 7470A	596026	EPA 7470A	596304
92519078005	EQBL012821	EPA 7470A	596026	EPA 7470A	596304
92519078001	BGWC-51	SM 2450C-2011	596261		
92519078002	BGWC-52	SM 2450C-2011	596261		
92519078003	DUP-1	SM 2450C-2011	596261		
92519078004	FBL012821	SM 2450C-2011	596261		
92519078005	EQBL012821	SM 2450C-2011	596261		
92519078001	BGWC-51	EPA 300.0 Rev 2.1 1993	596400		
92519078002	BGWC-52	EPA 300.0 Rev 2.1 1993	596400		
92519078003	DUP-1	EPA 300.0 Rev 2.1 1993	596400		
92519078004	FBL012821	EPA 300.0 Rev 2.1 1993	596400		
92519078005	EQBL012821	EPA 300.0 Rev 2.1 1993	596400		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia Power

Project #:

WO#: 92519078

Courier:

Commercial

Fed Ex

UPS

USPS

Client

Pace

Other: _____



92519078

Date/Initials Person Examining Contents: WT 1/28/25

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Packing Material:

Bubble Wrap

Bubble Bags

None

Other

Biological Tissue Frozen?

Yes

No

N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet

Blue

None

Cooler Temp:

5.8

Correction Factor:
Add/Subtract (°C)

2.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

6.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes

No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92519078

PM: KLH1

Due Date: 02/11/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LUHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:
 Company: Georgia Power
 Address: 1000 Weatherstone Parkway
 Address: GA 30168
 EMail: kevin.stephenson@pacelabs.com
 Phone: (678)548-9415 Fax:
 Service Due Date:

Section B

Required Project Information:
 Report To: Kevin Stephenson / Kurtis Jenkins
 Copy To: [Signature]
 Purchase Order #:
 Project Name: Bowen AP Background
 Project #:

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: kevin.heming@pacelabs.com
 Pace Profile #: 10944

Regulatory Agency: [Blank]
 State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9) - Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytical Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)								
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other							
				DATE	TIME	DATE	TIME																				
1	BGWC-01	WT		1/28/21	1146			5	2	3									X	X	X	X					6.81
2	BGWC-02	WT		1/28/21	1040			5	2	3									X	X	X	X					7.01
3	DUP-1	WT		1/28/21	-			5	2	3									X	X	X	X					
4	FBL 012821	WT		1/28/21	0952			5	2	3									X	X	X	X					
5	FBL	WT																	X	X	X	X					
6	EOBL 012821	WT		1/28/21	1002			5	2	3									X	X	X	X					
7	EOBL	WT																	X	X	X	X					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
-24-48hr TAT							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Kevin Stephenson / Vanessa Frey
 SIGNATURE of SAMPLER: [Signatures]
 DATE Signed: 1/28/21

TEMP in C
 Received on Ice-C (Y/N)
 Custody Sealed (Y/N)
 Cooled (Y/N)
 Samples Intact (Y/N)

March 31, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92523272010	BGWC-51	Water	02/23/21 12:54	02/25/21 09:37
92523272011	BGWC-52	Water	02/23/21 11:04	02/25/21 09:37
92523272012	FBL022321	Water	02/23/21 14:24	02/25/21 09:37
92523272013	EQBL022321	Water	02/23/21 14:30	02/25/21 09:37

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92523272010	BGWC-51	EPA 6010D	DRB	6
		EPA 6020B	CW1	1
		SM 2450C-2011	JRS	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	NAL	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92523272011	BGWC-52	EPA 6010D	DRB	6
		EPA 6020B	CW1	1
		SM 2450C-2011	JRS	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	NAL	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92523272012	FBL022321	EPA 6010D	DRB	6
		EPA 6020B	CW1	1
		SM 2450C-2011	JRS	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	NAL	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92523272013	EQBL022321	EPA 6010D	DRB	6
		EPA 6020B	CW1	1
		SM 2450C-2011	JRS	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	NAL	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92523272010	BGWC-51					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.71	Std. Units		03/01/21 07:52	
EPA 6010D	Calcium	674	mg/L	10.0	03/02/21 16:25	
EPA 6010D	Iron	0.15	mg/L	0.040	03/01/21 19:06	
EPA 6010D	Manganese	0.076	mg/L	0.040	03/01/21 19:06	
EPA 6010D	Potassium	9.5	mg/L	0.20	03/01/21 19:06	
EPA 6010D	Sodium	29.3	mg/L	1.0	03/01/21 19:06	
EPA 6010D	Magnesium	111	mg/L	0.050	03/01/21 19:06	
EPA 6020B	Boron	24.3	mg/L	2.0	03/04/21 14:55	
SM 2450C-2011	Total Dissolved Solids	2900	mg/L	100	02/25/21 16:26	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	150	mg/L	5.0	03/05/21 20:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	150	mg/L	5.0	03/05/21 20:18	
EPA 300.0 Rev 2.1 1993	Chloride	845	mg/L	100	02/28/21 09:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/27/21 22:29	
EPA 300.0 Rev 2.1 1993	Sulfate	536	mg/L	100	02/28/21 09:34	
92523272011	BGWC-52					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.95	Std. Units		03/01/21 07:52	
EPA 6010D	Calcium	379	mg/L	5.0	03/01/21 19:16	
EPA 6010D	Iron	1.4	mg/L	0.040	03/01/21 19:11	
EPA 6010D	Manganese	2.2	mg/L	0.040	03/01/21 19:11	
EPA 6010D	Potassium	7.5	mg/L	0.20	03/01/21 19:11	
EPA 6010D	Sodium	21.1	mg/L	1.0	03/01/21 19:11	
EPA 6010D	Magnesium	65.2	mg/L	0.050	03/01/21 19:11	
EPA 6020B	Boron	10.7	mg/L	0.40	03/04/21 15:01	
SM 2450C-2011	Total Dissolved Solids	1590	mg/L	100	02/25/21 16:26	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	03/05/21 20:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	125	mg/L	5.0	03/05/21 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	489	mg/L	10.0	02/28/21 09:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	02/27/21 22:44	
EPA 300.0 Rev 2.1 1993	Sulfate	320	mg/L	10.0	02/28/21 09:48	
92523272012	FBL022321					
EPA 6010D	Iron	0.058	mg/L	0.040	03/01/21 19:21	
92523272013	EQBL022321					
EPA 6010D	Iron	0.026J	mg/L	0.040	03/01/21 19:26	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

Sample: BGWC-51		Lab ID: 92523272010		Collected: 02/23/21 12:54	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.71	Std. Units			1		03/01/21 07:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	674	mg/L	10.0	0.70	10	03/01/21 10:35	03/02/21 16:25	7440-70-2	
Iron	0.15	mg/L	0.040	0.016	1	03/01/21 10:35	03/01/21 19:06	7439-89-6	
Manganese	0.076	mg/L	0.040	0.0017	1	03/01/21 10:35	03/01/21 19:06	7439-96-5	
Potassium	9.5	mg/L	0.20	0.056	1	03/01/21 10:35	03/01/21 19:06	7440-09-7	
Sodium	29.3	mg/L	1.0	0.26	1	03/01/21 10:35	03/01/21 19:06	7440-23-5	
Magnesium	111	mg/L	0.050	0.0076	1	03/01/21 10:35	03/01/21 19:06	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	24.3	mg/L	2.0	0.26	50	03/02/21 10:58	03/04/21 14:55	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2900	mg/L	100	100	1		02/25/21 16:26		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	150	mg/L	5.0	5.0	1		03/05/21 20:18		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:18		
Alkalinity, Total as CaCO ₃	150	mg/L	5.0	5.0	1		03/05/21 20:18		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		03/02/21 16:11	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	845	mg/L	100	60.0	100		02/28/21 09:34	16887-00-6	
Fluoride	0.087J	mg/L	0.10	0.050	1		02/27/21 22:29	16984-48-8	
Sulfate	536	mg/L	100	50.0	100		02/28/21 09:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Sample: BGWC-52		Lab ID: 92523272011		Collected: 02/23/21 11:04		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.95	Std. Units			1		03/01/21 07:52		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	379	mg/L	5.0	0.35	5	03/01/21 10:35	03/01/21 19:16	7440-70-2	
Iron	1.4	mg/L	0.040	0.016	1	03/01/21 10:35	03/01/21 19:11	7439-89-6	
Manganese	2.2	mg/L	0.040	0.0017	1	03/01/21 10:35	03/01/21 19:11	7439-96-5	
Potassium	7.5	mg/L	0.20	0.056	1	03/01/21 10:35	03/01/21 19:11	7440-09-7	
Sodium	21.1	mg/L	1.0	0.26	1	03/01/21 10:35	03/01/21 19:11	7440-23-5	
Magnesium	65.2	mg/L	0.050	0.0076	1	03/01/21 10:35	03/01/21 19:11	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	10.7	mg/L	0.40	0.052	10	03/02/21 10:58	03/04/21 15:01	7440-42-8	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1590	mg/L	100	100	1		02/25/21 16:26		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	125	mg/L	5.0	5.0	1		03/05/21 20:28		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:28		
Alkalinity, Total as CaCO ₃	125	mg/L	5.0	5.0	1		03/05/21 20:28		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		03/02/21 16:11	18496-25-8	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	489	mg/L	10.0	6.0	10		02/28/21 09:48	16887-00-6	
Fluoride	0.073J	mg/L	0.10	0.050	1		02/27/21 22:44	16984-48-8	
Sulfate	320	mg/L	10.0	5.0	10		02/28/21 09:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Sample: FBL022321		Lab ID: 92523272012		Collected: 02/23/21 14:24		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Iron	0.058	mg/L	0.040	0.016	1	03/01/21 10:35	03/01/21 19:21	7439-89-6	
Manganese	ND	mg/L	0.040	0.0017	1	03/01/21 10:35	03/01/21 19:21	7439-96-5	
Potassium	ND	mg/L	0.20	0.056	1	03/01/21 10:35	03/01/21 19:21	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/01/21 10:35	03/01/21 19:21	7440-23-5	
Calcium	ND	mg/L	1.0	0.070	1	03/01/21 10:35	03/01/21 19:21	7440-70-2	
Magnesium	ND	mg/L	0.050	0.0076	1	03/01/21 10:35	03/01/21 19:21	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 10:58	03/04/21 14:44	7440-42-8	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/25/21 16:26		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:38		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:38		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/05/21 20:38		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		03/02/21 16:12	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		02/27/21 23:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/21 23:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/21 23:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

Sample: EQBL022321		Lab ID: 92523272013		Collected: 02/23/21 14:30		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Iron	0.026J	mg/L	0.040	0.016	1	03/01/21 10:35	03/01/21 19:26	7439-89-6	
Manganese	ND	mg/L	0.040	0.0017	1	03/01/21 10:35	03/01/21 19:26	7439-96-5	
Potassium	ND	mg/L	0.20	0.056	1	03/01/21 10:35	03/01/21 19:26	7440-09-7	
Sodium	ND	mg/L	1.0	0.26	1	03/01/21 10:35	03/01/21 19:26	7440-23-5	
Calcium	ND	mg/L	1.0	0.070	1	03/01/21 10:35	03/01/21 19:26	7440-70-2	
Magnesium	ND	mg/L	0.050	0.0076	1	03/01/21 10:35	03/01/21 19:26	7439-95-4	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	0.0052	1	03/02/21 10:58	03/04/21 14:50	7440-42-8	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/25/21 16:26		
2320B Alkalinity		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:41		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		03/05/21 20:41		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		03/05/21 20:41		
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		03/02/21 16:13	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		02/27/21 23:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/21 23:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/21 23:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

QC Batch: 603215 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3178276 Matrix: Water
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/01/21 16:07	
Iron	mg/L	ND	0.040	0.016	03/01/21 16:07	
Magnesium	mg/L	ND	0.050	0.0076	03/01/21 16:07	
Manganese	mg/L	ND	0.040	0.0017	03/01/21 16:07	
Potassium	mg/L	ND	0.20	0.056	03/01/21 16:07	
Sodium	mg/L	ND	1.0	0.26	03/01/21 16:07	

LABORATORY CONTROL SAMPLE: 3178277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Manganese	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3178278 3178279

Parameter	Units	3178278		3178279		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L		1	1	45.5	43.0	314	60	75-125	6	20 M1
Iron	mg/L	0.27	1	1	1.4	1.3	108	105	75-125	2	20
Magnesium	mg/L	19.7	1	1	21.8	20.7	206	98	75-125	5	20 M1
Manganese	mg/L	0.0061J	1	1	1.0	0.99	100	99	75-125	2	20
Potassium	mg/L	1.8	1	1	3.1	2.9	130	111	75-125	6	20 M1
Sodium	mg/L	4.7	1	1	6.0	5.7	131	99	75-125	5	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

QC Batch:	603526	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3179514 Matrix: Water

Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0052	03/03/21 15:21	

LABORATORY CONTROL SAMPLE: 3179515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179528 3179529

Parameter	Units	3179528		3179529		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	1	1	1.0	1.0	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

QC Batch:	602703	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3175910 Matrix: Water
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/25/21 16:25	

LABORATORY CONTROL SAMPLE: 3175911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	386	96	84-108	

SAMPLE DUPLICATE: 3175956

Parameter	Units	92524045001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	317	319	1	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

QC Batch: 604532 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3184660 Matrix: Water
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	03/05/21 17:15	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/05/21 17:15	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	03/05/21 17:15	

LABORATORY CONTROL SAMPLE: 3184661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	48.2	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184662 3184663

Parameter	Units	92523795002		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Alkalinity, Total as CaCO ₃	mg/L	170	50	50	219	224	98	109	80-120	2	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184664 3184665

Parameter	Units	92523800009		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Alkalinity, Total as CaCO ₃	mg/L	42.8	50	50	78.0	77.9	70	70	80-120	0	25	M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

QC Batch: 603512 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3179455 Matrix: Water
 Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	03/02/21 15:50	

LABORATORY CONTROL SAMPLE: 3179456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.42	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179457 3179458

Parameter	Units	3179457		3179458		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	ND	0.5	0.52	0.52	104	104	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179459 3179460

Parameter	Units	3179459		3179460		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfide	mg/L	0.40	0.5	0.91	0.91	101	102	80-120	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

QC Batch: 603111 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

METHOD BLANK: 3177761 Matrix: Water
Associated Lab Samples: 92523272010, 92523272011, 92523272012, 92523272013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/21 11:40	
Fluoride	mg/L	ND	0.10	0.050	02/27/21 11:40	
Sulfate	mg/L	ND	1.0	0.50	02/27/21 11:40	

LABORATORY CONTROL SAMPLE: 3177762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177763 3177764

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92524525001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	29.2	50	50	78.1	78.7	98	99	90-110	1	10		
Fluoride	mg/L	0.59	2.5	2.5	3.0	3.1	98	100	90-110	1	10		
Sulfate	mg/L	35.9	50	50	85.7	85.9	100	100	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177765 3177766

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523908003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	19.5	50	50	69.4	70.1	100	101	90-110	1	10		
Fluoride	mg/L	0.26	2.5	2.5	2.7	2.7	97	99	90-110	2	10		
Sulfate	mg/L	552	50	50	587	587	70	70	90-110	0	10 M6		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92529119

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN
Pace Project No.: 92529119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523272010	BGWC-51				
92523272011	BGWC-52				
92523272010	BGWC-51	EPA 3010A	603215	EPA 6010D	603283
92523272011	BGWC-52	EPA 3010A	603215	EPA 6010D	603283
92523272012	FBL022321	EPA 3010A	603215	EPA 6010D	603283
92523272013	EQBL022321	EPA 3010A	603215	EPA 6010D	603283
92523272010	BGWC-51	EPA 3005A	603526	EPA 6020B	603634
92523272011	BGWC-52	EPA 3005A	603526	EPA 6020B	603634
92523272012	FBL022321	EPA 3005A	603526	EPA 6020B	603634
92523272013	EQBL022321	EPA 3005A	603526	EPA 6020B	603634
92523272010	BGWC-51	SM 2450C-2011	602703		
92523272011	BGWC-52	SM 2450C-2011	602703		
92523272012	FBL022321	SM 2450C-2011	602703		
92523272013	EQBL022321	SM 2450C-2011	602703		
92523272010	BGWC-51	SM 2320B-2011	604532		
92523272011	BGWC-52	SM 2320B-2011	604532		
92523272012	FBL022321	SM 2320B-2011	604532		
92523272013	EQBL022321	SM 2320B-2011	604532		
92523272010	BGWC-51	SM 4500-S2D-2011	603512		
92523272011	BGWC-52	SM 4500-S2D-2011	603512		
92523272012	FBL022321	SM 4500-S2D-2011	603512		
92523272013	EQBL022321	SM 4500-S2D-2011	603512		
92523272010	BGWC-51	EPA 300.0 Rev 2.1 1993	603111		
92523272011	BGWC-52	EPA 300.0 Rev 2.1 1993	603111		
92523272012	FBL022321	EPA 300.0 Rev 2.1 1993	603111		
92523272013	EQBL022321	EPA 300.0 Rev 2.1 1993	603111		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92523277

PM: KLH1

Due Date: 03/03/21

CLIENT: GR-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/25/21*
COY

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: *214* Type of Ice: Wet Blue None

Cooler Temp: *4.7* Correction Factor: Add/Subtract (°C) *+0.1*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.8*

USDA Regulated Soil? N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes No

Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-03-033-Rev.07

Document Revised: October 28, 2020

Page 2 of 2

Issuing Authority:

Pace Analytical, Inc.

Project

WO#: 92523277

PM: KLH1

Due Date: 03/05/21

CLIENT: GR-GR Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LHM

**Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3S-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (pH)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGCU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3M (600ML-250 mL Amber NH4Cl (N/A) (C-)	DC99-40 mL VOA HD (N/A)	VG97-40 mL VOA HAZ303 (N/A)	VG9U-40 mL VOA Unp (N/A)	DC9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP7T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (N42)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VG2U-20 mL Scintillation vials (N/A)	DC9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Section A

Regulatory Client Information:

Company: Georgia Power - Civil Construction Resources
 Address: 2480 Lamar Road
 Atlanta, GA 30338

Section B

Regulatory Project Information:

Project No: 10000000000000000000
 Project Title: Georgia Power
 Project Name: River Basin Fish Bond Scan
 Project #

Section C

Analysis Information:

Company Name:
 Address:
 Phone Number:
 Project Manager:
 Project #

Page: 4 of 4

Regulatory Agency

State / Location

GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, -)
 Sample IDs must be unique

DATE COLLECTED
 DATE TIME
 DATE TIME
 DATE TIME
 DATE TIME
 DATE TIME
 DATE TIME

MATRIX CODE (see valid codes to left)
 SAMPLETYPE (G=GRAB C=COMP)

DATE	TIME	COLLECTED	
		START	TIME
2/23/21			
2/23/21	1424		
2/23/21	1430		
2/23/21	1254		
2/23/21	1104		

SAMPLE TEMP AT COLLECTION

SOP CONTAINERS		Preservatives							Analyse Test		
Unpreserved	H2SO4	HNO3	HCl	HOAc	NaOH	Na2S2O3	Methanol	Other	Made 8020 App. IV	Fluoride	Radon 226, 228
									X	X	X
									X	X	X
									X	X	X
									X	X	X

Residual Chlorine (TNR)

Residual Chlorine (TNR)

Residual Chlorine (TNR)

Residual Chlorine (TNR)

Residual Chlorine (TNR)

SAMPLE ID	DATE	TIME	SOP CONTAINERS	Preservatives	Analyse Test	MIXED	TEMP	RESIDUAL CHLORINE (TNR)	PH	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	2/23/21		4	1	3					Kevin Stephens / RSC	2/23/21	1424	Kevin Stephens / RSC	2/23/21	1424	
2	2/23/21	1424	4	1	3					Kevin Stephens / RSC	2/23/21	1430	Kevin Stephens / RSC	2/23/21	1430	
3	2/23/21	1424	4	1	3					Kevin Stephens / RSC	2/23/21	1254	Kevin Stephens / RSC	2/23/21	1254	
4	2/23/21	1430	4	1	3					Kevin Stephens / RSC	2/23/21	1104	Kevin Stephens / RSC	2/23/21	1104	
5																
6																
7																
8																
9																
10																
11																
12																

RELINQUISHED BY / AFFILIATION
 DATE
 TIME

ACCEPTED BY / AFFILIATION
 DATE
 TIME

SAMPLE CONDITIONS

TEMP IN C
 Received on
 Sealed
 Sample

PH: 6.95
 PH: 6.71
 PH: 6.71

May 07, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 19, 2021 and March 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1 - This report replaces the March 29, 2021 report. This project was revised on April 29, 2021 to reflect deletion of duplicate samples as per client request. (Greensburg PA)

Revision 1 - This report replaces the March 19, 2021 report. This project was revised on May 7, 2021 in order to cancel samples that are reported on WO 30407322. (Greensburg, PA)

Revision 2 - This report replaces the April 29, 2021 report. This project was revised on May 7, 2021 in order to report results for samples canceled in error. (Greensburg, PA)

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.

Kristen Jurinko



REPORT OF LABORATORY ANALYSIS

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May 07, 2021

Page 2

cc: Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92523254001	BGWA-47D	Water	02/17/21 16:31	02/19/21 16:08
92523254002	BGWA-48D	Water	02/17/21 13:27	02/19/21 16:08
92523254003	BGWC-9	Water	02/17/21 15:58	02/19/21 16:08
92523254004	FBL021721	Water	02/17/21 16:40	02/19/21 16:08
92523254005	EQBL021721	Water	02/17/21 17:14	02/19/21 16:08
92523254006	DUP-1	Water	02/16/21 00:00	02/19/21 16:08
92523254007	FBL021621	Water	02/16/21 15:25	02/19/21 16:08
92523254008	BGWC-17	Water	02/18/21 13:40	02/19/21 16:08
92523254009	BGWC-18	Water	02/18/21 15:03	02/19/21 16:08
92523254010	BGWC-19	Water	02/18/21 16:28	02/19/21 16:08
92523254011	BGWC-20	Water	02/18/21 15:38	02/19/21 16:08
92523254012	BGWA-6	Water	02/18/21 14:11	02/19/21 16:08
92523254013	BGWC-44D	Water	02/18/21 11:07	02/19/21 16:08
92523254014	DUP-2	Water	02/18/21 00:00	02/19/21 16:08
92523254015	FBL021821	Water	02/18/21 16:40	02/19/21 16:08
92523254016	EQBL021821	Water	02/18/21 16:34	02/19/21 16:08
92523254017	BGWC-21	Water	02/19/21 12:23	02/19/21 16:08
92523254018	BGWC-22	Water	02/19/21 13:25	02/19/21 16:08
92523254019	BGWC-23	Water	02/19/21 13:46	02/19/21 16:08
92523254020	BGWC-24	Water	02/19/21 12:21	02/19/21 16:08
92523254021	BGWC-34D	Water	02/19/21 10:09	02/19/21 16:08
92523254022	FBL021921	Water	02/19/21 14:20	02/19/21 16:08
92523254023	EQBL021921	Water	02/19/21 14:25	02/19/21 16:08
92523254024	BGWC-25	Water	02/23/21 10:39	02/25/21 09:37
92523254025	BGWC-32	Water	02/23/21 11:46	02/25/21 09:37
92523254026	DUP-4	Water	02/23/21 00:00	02/25/21 09:37
92523254027	FBL022321	Water	02/23/21 14:24	02/25/21 09:37
92523254028	EQBL022321	Water	02/23/21 14:30	02/25/21 09:37
92523254029	BGWC-51	Water	02/23/21 12:54	02/25/21 09:37
92523254030	BGWC-52	Water	02/23/21 11:04	02/25/21 09:37
92523254031	BGWC-35D	Water	02/22/21 15:01	02/25/21 09:37
92523254032	BGWC-37D	Water	02/22/21 14:01	02/25/21 09:37
92523254033	BGWC-39	Water	02/22/21 10:45	02/25/21 09:37
92523254034	BGWC-40	Water	02/22/21 12:24	02/25/21 09:37
92523254035	BGWC-41D	Water	02/22/21 12:44	02/25/21 09:37
92523254036	BGWC-42D	Water	02/22/21 12:02	02/25/21 09:37
92523254037	BGWC-31	Water	02/22/21 14:40	02/25/21 09:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92523254038	DUP-3	Water	02/22/21 00:00	02/25/21 09:37
92523254039	FBL022221	Water	02/22/21 16:11	02/25/21 09:37
92523254040	EQBL022221	Water	02/22/21 16:14	02/25/21 09:37
92523249001	BGWA-2	Water	02/16/21 14:18	02/19/21 16:08
92523249002	BGWA-29	Water	02/16/21 12:10	02/19/21 16:08
92523249003	BGWC-8	Water	02/16/21 14:26	02/19/21 16:08
92523249004	BGWA-33	Water	02/19/21 09:42	02/19/21 16:08
92523249005	BGWC-12	Water	02/19/21 11:16	02/19/21 16:08
92523249006	BGWC-7	Water	02/18/21 10:30	02/19/21 16:08
92523249007	BGWC-10	Water	02/18/21 16:26	02/19/21 16:08
92523249008	BGWC-14A	Water	02/18/21 11:10	02/19/21 16:08
92523249009	BGWC-16	Water	02/18/21 12:33	02/19/21 16:08
92526935001	FBL030821	Water	03/08/21 16:32	03/10/21 08:47
92526935002	EQBL030821	Water	03/08/21 16:42	03/10/21 08:47
92526935003	BGWC-36D	Water	03/08/21 13:05	03/10/21 08:47
92526935004	BGWC-43D	Water	03/08/21 15:24	03/10/21 08:47
92526935005	BGWC-30	Water	03/08/21 11:50	03/10/21 08:47
92526935006	BGWC-38D	Water	03/09/21 11:12	03/10/21 08:47
92526935007	FBL030921	Water	03/09/21 12:24	03/10/21 08:47
92526935008	EQBL030921	Water	03/09/21 16:10	03/10/21 08:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523254001	BGWA-47D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254002	BGWA-48D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254003	BGWC-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254004	FBL021721	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254005	EQBL021721	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254006	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254007	FBL021621	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254008	BGWC-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254009	BGWC-18	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254010	BGWC-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254011	BGWC-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254012	BGWA-6	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254013	BGWC-44D	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523254014	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254015	FBL021821	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254016	EQBL021821	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92523254017	BGWC-21	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254018	BGWC-22	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92523254019	BGWC-23	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92523254020	BGWC-24	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254021	BGWC-34D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523254022	FBL021921	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92523254023	EQBL021921	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254024	BGWC-25	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523254025	BGWC-32	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523254026	DUP-4	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254027	FBL022321	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254028	EQBL022321	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254029	BGWC-51	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254030	BGWC-52	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254031	BGWC-35D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254032	BGWC-37D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254033	BGWC-39	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254034	BGWC-40	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254035	BGWC-41D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254036	BGWC-42D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92523254037	BGWC-31	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523254038	DUP-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523254039	FBL022221	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523254040	EQBL022221	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249001	BGWA-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249002	BGWA-29	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249003	BGWC-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249004	BGWA-33	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249005	BGWC-12	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249006	BGWC-7	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249007	BGWC-10	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249008	BGWC-14A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92523249009	BGWC-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92526935001	FBL030821	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526935002	EQBL030821	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92526935003	BGWC-36D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92526935004	BGWC-43D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92526935005	BGWC-30	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92526935006	BGWC-38D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92526935007	FBL030921	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92526935008	EQBL030921	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254001	BGWA-47D					
EPA 9315	Radium-226	0.311 ± 0.139 (0.133) C:86% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.226 ± 0.482 (1.06) C:76% T:73%	pCi/L		03/10/21 14:27	
Total Radium Calculation	Total Radium	0.537 ± 0.621 (1.19)	pCi/L		03/16/21 14:30	
92523254002	BGWA-48D					
EPA 9315	Radium-226	0.301 ± 0.145 (0.175) C:82% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.802 ± 0.600 (1.18) C:66% T:73%	pCi/L		03/10/21 14:27	
Total Radium Calculation	Total Radium	1.10 ± 0.745 (1.36)	pCi/L		03/16/21 14:30	
92523254003	BGWC-9					
EPA 9315	Radium-226	0.127 ± 0.116 (0.222) C:82% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.565 ± 0.466 (0.933) C:68% T:73%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.692 ± 0.582 (1.16)	pCi/L		03/16/21 14:30	
92523254004	FBL021721					
EPA 9315	Radium-226	0.0580 ± 0.0823 (0.176) C:94% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.374 ± 0.403 (0.840) C:66% T:84%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.432 ± 0.485 (1.02)	pCi/L		03/16/21 14:30	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254005	EQBL021721					
EPA 9315	Radium-226	-0.0153 ± 0.0565 (0.175) C:92% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.456 ± 0.477 (0.996) C:65% T:83%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.456 ± 0.534 (1.17)	pCi/L		03/16/21 14:30	
92523254006	DUP-1					
EPA 9315	Radium-226	0.149 ± 0.108 (0.172) C:83% T:NA	pCi/L		03/16/21 09:41	
EPA 9320	Radium-228	0.753 ± 0.566 (1.12) C:69% T:68%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.902 ± 0.674 (1.29)	pCi/L		03/16/21 14:30	
92523254007	FBL021621					
EPA 9315	Radium-226	0.0269 ± 0.0832 (0.204) C:91% T:NA	pCi/L		03/16/21 08:29	
EPA 9320	Radium-228	0.185 ± 0.340 (0.745) C:77% T:81%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.212 ± 0.423 (0.949)	pCi/L		03/16/21 14:30	
92523254008	BGWC-17					
EPA 9315	Radium-226	0.0907 ± 0.140 (0.311) C:67% T:NA	pCi/L		03/16/21 09:45	
EPA 9320	Radium-228	0.632 ± 0.435 (0.833) C:72% T:74%	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	0.723 ± 0.575 (1.14)	pCi/L		03/16/21 14:30	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254009	BGWC-18					
EPA 9315	Radium-226	0.0920 ± 0.124 (0.267)	pCi/L		03/16/21 09:49	
EPA 9320	Radium-228	C:82% T:NA 0.528 ± 0.424 (0.835)	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	C:71% T:63% 0.620 ± 0.548 (1.10)	pCi/L		03/16/21 14:30	
92523254010	BGWC-19					
EPA 9315	Radium-226	0.0511 ± 0.0933 (0.213)	pCi/L		03/16/21 09:50	
EPA 9320	Radium-228	C:87% T:NA 0.995 ± 0.776 (1.52)	pCi/L		03/10/21 12:51	
Total Radium Calculation	Total Radium	C:37% T:73% 1.05 ± 0.869 (1.73)	pCi/L		03/16/21 14:30	
92523254011	BGWC-20					
EPA 9315	Radium-226	0.398 ± 0.179 (0.258)	pCi/L		03/16/21 09:47	
EPA 9320	Radium-228	C:91% T:NA 0.472 ± 0.435 (0.886)	pCi/L		03/10/21 12:52	
Total Radium Calculation	Total Radium	C:66% T:81% 0.870 ± 0.614 (1.14)	pCi/L		03/16/21 14:30	
92523254012	BGWA-6					
EPA 9315	Radium-226	0.116 ± 0.121 (0.247)	pCi/L		03/16/21 09:48	
EPA 9320	Radium-228	C:88% T:NA 0.116 ± 0.421 (0.950)	pCi/L		03/10/21 12:52	
Total Radium Calculation	Total Radium	C:67% T:79% 0.232 ± 0.542 (1.20)	pCi/L		03/16/21 14:30	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254013	BGWC-44D					
EPA 9315	Radium-226	0.243 ± 0.138 (0.209)	pCi/L		03/16/21 10:06	
EPA 9320	Radium-228	C:89% T:NA 1.10 ± 0.579 (1.04)	pCi/L		03/10/21 12:52	
Total Radium Calculation	Total Radium	C:68% T:68% 1.34 ± 0.717 (1.25)	pCi/L		03/16/21 14:30	
92523254014	DUP-2					
EPA 9315	Radium-226	0.218 ± 0.138 (0.222)	pCi/L		03/16/21 10:00	
EPA 9320	Radium-228	C:83% T:NA 0.512 ± 0.417 (0.828)	pCi/L		03/10/21 12:52	
Total Radium Calculation	Total Radium	C:67% T:79% 0.730 ± 0.555 (1.05)	pCi/L		03/16/21 14:30	
92523254015	FBL021821					
EPA 9315	Radium-226	0.0280 ± 0.0645 (0.154)	pCi/L		03/16/21 10:00	
EPA 9320	Radium-228	C:91% T:NA 0.481 ± 0.417 (0.842)	pCi/L		03/10/21 12:52	
Total Radium Calculation	Total Radium	C:70% T:80% 0.509 ± 0.482 (0.996)	pCi/L		03/16/21 14:30	
92523254016	EQBL021821					
EPA 9315	Radium-226	0.00741 ± 0.0978 (0.252)	pCi/L		03/16/21 09:11	
EPA 9320	Radium-228	C:95% T:NA 0.167 ± 0.524 (1.17)	pCi/L		03/10/21 12:56	
Total Radium Calculation	Total Radium	C:68% T:82% 0.174 ± 0.622 (1.42)	pCi/L		03/16/21 14:30	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254017	BGWC-21					
EPA 9315	Radium-226	0.242 ± 0.139 (0.212) C:90% T:NA	pCi/L		03/16/21 10:00	
EPA 9320	Radium-228	0.759 ± 0.583 (1.17) C:64% T:75%	pCi/L		03/10/21 12:56	
Total Radium Calculation	Total Radium	1.00 ± 0.722 (1.38)	pCi/L		03/16/21 14:30	
92523254018	BGWC-22					
EPA 9315	Radium-226	1.14 ± 0.323 (0.386) C:97% T:NA	pCi/L		03/16/21 10:00	
EPA 9320	Radium-228	1.49 ± 0.626 (1.06) C:68% T:85%	pCi/L		03/10/21 12:56	
Total Radium Calculation	Total Radium	2.63 ± 0.949 (1.45)	pCi/L		03/16/21 14:30	
92523254019	BGWC-23					
EPA 9315	Radium-226	0.452 ± 0.182 (0.240) C:97% T:NA	pCi/L		03/16/21 10:44	
EPA 9320	Radium-228	0.721 ± 0.590 (1.20) C:66% T:85%	pCi/L		03/10/21 12:56	
Total Radium Calculation	Total Radium	1.17 ± 0.772 (1.44)	pCi/L		03/16/21 14:30	
92523254020	BGWC-24					
EPA 9315	Radium-226	0.410 ± 0.182 (0.257) C:96% T:NA	pCi/L		03/15/21 07:38	
EPA 9320	Radium-228	0.661 ± 0.593 (1.22) C:68% T:86%	pCi/L		03/10/21 16:03	
Total Radium Calculation	Total Radium	1.07 ± 0.775 (1.48)	pCi/L		03/15/21 14:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254021	BGWC-34D					
EPA 9315	Radium-226	1.44 ± 0.350 (0.226)	pCi/L		03/15/21 07:38	
EPA 9320	Radium-228	C:88% T:NA 0.793 ± 0.539 (1.05)	pCi/L		03/10/21 16:03	
Total Radium Calculation	Total Radium	C:63% T:93% 2.23 ± 0.889 (1.28)	pCi/L		03/15/21 14:57	
92523254022	FBL021921					
EPA 9315	Radium-226	0.0664 ± 0.137 (0.317)	pCi/L		03/15/21 07:38	
EPA 9320	Radium-228	C:88% T:NA 0.0357 ± 0.442 (1.01)	pCi/L		03/10/21 16:03	
Total Radium Calculation	Total Radium	C:69% T:94% 0.102 ± 0.579 (1.33)	pCi/L		03/15/21 14:57	
92523254023	EQBL021921					
EPA 9315	Radium-226	0.145 ± 0.118 (0.215)	pCi/L		03/15/21 07:38	
EPA 9320	Radium-228	C:96% T:NA -0.704 ± 0.550 (1.35)	pCi/L		03/10/21 16:03	
Total Radium Calculation	Total Radium	C:65% T:83% 0.145 ± 0.668 (1.57)	pCi/L		03/15/21 14:57	
92523254024	BGWC-25					
EPA 9315	Radium-226	0.276 ± 0.140 (0.174)	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	C:87% T:NA 0.180 ± 0.348 (0.764)	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	C:70% T:98% 0.456 ± 0.488 (0.938)	pCi/L		03/15/21 14:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
 Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254025	BGWC-32					
EPA 9315	Radium-226	0.948 ± 0.263 (0.171) C:94% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.603 ± 0.383 (0.719) C:67% T:96%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	1.55 ± 0.646 (0.890)	pCi/L		03/15/21 14:51	
92523254026	DUP-4					
EPA 9315	Radium-226	0.113 ± 0.0869 (0.130) C:93% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	-0.150 ± 0.279 (0.681) C:69% T:110%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	0.113 ± 0.366 (0.811)	pCi/L		03/15/21 14:51	
92523254027	FBL022321					
EPA 9315	Radium-226	-0.00342 ± 0.0518 (0.156) C:95% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.000714 ± 0.331 (0.772) C:70% T:94%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	0.000714 ± 0.383 (0.928)	pCi/L		03/15/21 14:51	
92523254028	EQBL022321					
EPA 9315	Radium-226	0.0787 ± 0.0892 (0.176) C:86% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.208 ± 0.414 (0.912) C:68% T:85%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	0.287 ± 0.503 (1.09)	pCi/L		03/15/21 14:51	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254029	BGWC-51					
EPA 9315	Radium-226	0.282 ± 0.151 (0.224) C:95% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.307 ± 0.301 (0.615) C:70% T:95%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	0.589 ± 0.452 (0.839)	pCi/L		03/15/21 14:51	
92523254030	BGWC-52					
EPA 9315	Radium-226	0.353 ± 0.159 (0.207) C:94% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.214 ± 0.313 (0.675) C:71% T:92%	pCi/L		03/10/21 15:58	
Total Radium Calculation	Total Radium	0.567 ± 0.472 (0.882)	pCi/L		03/15/21 14:57	
92523254031	BGWC-35D					
EPA 9315	Radium-226	1.51 ± 0.347 (0.158) C:98% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	0.520 ± 0.529 (1.10) C:77% T:89%	pCi/L		03/09/21 18:48	
Total Radium Calculation	Total Radium	2.03 ± 0.876 (1.26)	pCi/L		03/15/21 14:57	
92523254032	BGWC-37D					
EPA 9315	Radium-226	0.510 ± 0.193 (0.219) C:89% T:NA	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	1.22 ± 0.643 (1.15) C:78% T:80%	pCi/L		03/09/21 18:48	
Total Radium Calculation	Total Radium	1.73 ± 0.836 (1.37)	pCi/L		03/15/21 14:57	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254033	BGWC-39					
EPA 9315	Radium-226	0.256 ± 0.135 (0.182)	pCi/L		03/15/21 07:33	
EPA 9320	Radium-228	C:94% T:NA 1.39 ± 0.642 (1.09)	pCi/L		03/09/21 18:48	
Total Radium Calculation	Total Radium	C:79% T:86% 1.65 ± 0.777 (1.27)	pCi/L		03/15/21 14:57	
92523254034	BGWC-40					
EPA 9315	Radium-226	0.355 ± 0.108 (0.117)	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	C:96% T:NA 0.958 ± 0.679 (1.33)	pCi/L		03/09/21 18:48	
Total Radium Calculation	Total Radium	C:77% T:83% 1.31 ± 0.787 (1.45)	pCi/L		03/15/21 14:57	
92523254035	BGWC-41D					
EPA 9315	Radium-226	0.592 ± 0.188 (0.266)	pCi/L		03/09/21 18:47	
EPA 9320	Radium-228	C:93% T:NA 1.32 ± 0.626 (1.06)	pCi/L		03/09/21 18:03	
Total Radium Calculation	Total Radium	C:79% T:83% 1.91 ± 0.814 (1.33)	pCi/L		03/15/21 14:57	
92523254036	BGWC-42D					
EPA 9315	Radium-226	0.368 ± 0.129 (0.174)	pCi/L		03/09/21 18:47	
EPA 9320	Radium-228	C:95% T:NA 0.210 ± 0.498 (1.11)	pCi/L		03/09/21 19:05	
Total Radium Calculation	Total Radium	C:78% T:84% 0.578 ± 0.627 (1.28)	pCi/L		03/15/21 14:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523254037	BGWC-31					
EPA 9315	Radium-226	0.767 ± 0.183 (0.178) C:95% T:NA	pCi/L		03/09/21 18:47	
EPA 9320	Radium-228	0.299 ± 0.503 (1.10) C:81% T:78%	pCi/L		03/09/21 18:04	
Total Radium Calculation	Total Radium	1.07 ± 0.686 (1.28)	pCi/L		03/15/21 14:57	
92523254038	DUP-3					
EPA 9315	Radium-226	0.482 ± 0.148 (0.184) C:87% T:NA	pCi/L		03/09/21 18:47	
EPA 9320	Radium-228	0.536 ± 0.530 (1.09) C:71% T:86%	pCi/L		03/09/21 18:04	
Total Radium Calculation	Total Radium	1.02 ± 0.678 (1.27)	pCi/L		03/15/21 14:57	
92523254039	FBL022221					
EPA 9315	Radium-226	-0.0240 ± 0.0991 (0.305) C:96% T:NA	pCi/L		03/10/21 08:53	
EPA 9320	Radium-228	0.664 ± 0.444 (0.835) C:80% T:89%	pCi/L		03/09/21 18:05	
Total Radium Calculation	Total Radium	0.664 ± 0.543 (1.14)	pCi/L		03/15/21 14:57	
92523254040	EQBL022221					
EPA 9315	Radium-226	-0.00925 ± 0.0708 (0.152) C:98% T:NA	pCi/L		03/09/21 18:01	
EPA 9320	Radium-228	0.776 ± 0.485 (0.894) C:76% T:88%	pCi/L		03/09/21 18:05	
Total Radium Calculation	Total Radium	0.776 ± 0.556 (1.05)	pCi/L		03/15/21 14:57	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523249001	BGWA-2					
EPA 9315	Radium-226	0.283 ± 0.169 (0.284) C:94% T:NA	pCi/L		03/11/21 08:26	
EPA 9320	Radium-228	0.655 ± 0.415 (0.777) C:73% T:82%	pCi/L		03/05/21 14:11	
Total Radium Calculation	Total Radium	0.938 ± 0.584 (1.06)	pCi/L		03/11/21 14:15	
92523249002	BGWA-29					
EPA 9315	Radium-226	0.0390 ± 0.108 (0.260) C:87% T:NA	pCi/L		03/11/21 08:26	
EPA 9320	Radium-228	0.305 ± 0.366 (0.768) C:78% T:69%	pCi/L		03/05/21 14:12	
Total Radium Calculation	Total Radium	0.344 ± 0.474 (1.03)	pCi/L		03/11/21 14:15	
92523249003	BGWC-8					
EPA 9315	Radium-226	0.145 ± 0.199 (0.440) C:90% T:NA	pCi/L		03/11/21 08:26	
EPA 9320	Radium-228	0.564 ± 0.376 (0.708) C:76% T:81%	pCi/L		03/05/21 14:12	
Total Radium Calculation	Total Radium	0.709 ± 0.575 (1.15)	pCi/L		03/11/21 14:15	
92523249004	BGWA-33					
EPA 9315	Radium-226	0.681 ± 0.260 (0.356) C:86% T:NA	pCi/L		03/11/21 08:26	
EPA 9320	Radium-228	0.424 ± 0.340 (0.681) C:78% T:91%	pCi/L		03/05/21 11:58	
Total Radium Calculation	Total Radium	1.11 ± 0.600 (1.04)	pCi/L		03/11/21 14:15	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523249005	BGWC-12					
EPA 9315	Radium-226	0.207 ± 0.135 (0.220)	pCi/L		03/11/21 08:26	
EPA 9320	Radium-228	C:94% T:NA 0.401 ± 0.331 (0.664)	pCi/L		03/05/21 11:58	
Total Radium Calculation	Total Radium	C:85% T:84% 0.608 ± 0.466 (0.884)	pCi/L		03/11/21 14:15	
92523249006	BGWC-7					
EPA 9315	Radium-226	0.703 ± 0.237 (0.244)	pCi/L		03/11/21 08:32	
EPA 9320	Radium-228	C:93% T:NA 0.384 ± 0.342 (0.695)	pCi/L		03/05/21 11:58	
Total Radium Calculation	Total Radium	C:83% T:85% 1.09 ± 0.579 (0.939)	pCi/L		03/11/21 14:15	
92523249007	BGWC-10					
EPA 9315	Radium-226	0.675 ± 0.241 (0.248)	pCi/L		03/11/21 08:32	
EPA 9320	Radium-228	C:78% T:NA 0.847 ± 0.421 (0.745)	pCi/L		03/05/21 11:58	
Total Radium Calculation	Total Radium	C:84% T:81% 1.52 ± 0.662 (0.993)	pCi/L		03/11/21 14:15	
92523249008	BGWC-14A					
EPA 9315	Radium-226	0.299 ± 0.157 (0.209)	pCi/L		03/11/21 08:32	
EPA 9320	Radium-228	C:84% T:NA 0.702 ± 0.395 (0.733)	pCi/L		03/05/21 11:58	
Total Radium Calculation	Total Radium	C:81% T:87% 1.00 ± 0.552 (0.942)	pCi/L		03/11/21 14:15	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523249009	BGWC-16					
EPA 9315	Radium-226	0.220 ± 0.133 (0.200)	pCi/L		03/11/21 08:32	
EPA 9320	Radium-228	C:93% T:NA 0.501 ± 0.509 (1.06)	pCi/L		03/05/21 15:08	
Total Radium Calculation	Total Radium	C:59% T:87% 0.721 ± 0.642 (1.26)	pCi/L		03/11/21 14:15	
92526935001	FBL030821					
EPA 9315	Radium-226	-0.103 ± 0.157 (0.495)	pCi/L		03/26/21 09:46	
EPA 9320	Radium-228	C:82% T:NA 0.530 ± 0.402 (0.801)	pCi/L		04/01/21 12:40	
Total Radium Calculation	Total Radium	C:73% T:89% 0.530 ± 0.559 (1.30)	pCi/L		04/02/21 14:31	
92526935002	EQBL030821					
EPA 9315	Radium-226	0.0488 ± 0.137 (0.341)	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	C:68% T:NA -0.203 ± 0.352 (0.853)	pCi/L		04/01/21 12:40	
Total Radium Calculation	Total Radium	C:73% T:82% 0.0488 ± 0.489 (1.19)	pCi/L		04/02/21 14:31	
92526935003	BGWC-36D					
EPA 9315	Radium-226	1.03 ± 0.386 (0.364)	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	C:73% T:NA 1.06 ± 0.480 (0.817)	pCi/L		04/01/21 12:40	
Total Radium Calculation	Total Radium	C:75% T:82% 2.09 ± 0.866 (1.18)	pCi/L		04/02/21 14:31	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92526935004	BGWC-43D					
EPA 9315	Radium-226	0.627 ± 0.303 (0.392) C:80% T:NA	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	0.714 ± 0.457 (0.879) C:71% T:85%	pCi/L		04/01/21 12:40	
Total Radium Calculation	Total Radium	1.34 ± 0.760 (1.27)	pCi/L		04/02/21 14:31	
92526935005	BGWC-30					
EPA 9315	Radium-226	0.339 ± 0.257 (0.433) C:66% T:NA	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	0.0896 ± 0.367 (0.830) C:74% T:82%	pCi/L		04/01/21 12:41	
Total Radium Calculation	Total Radium	0.429 ± 0.624 (1.26)	pCi/L		04/02/21 14:31	
92526935006	BGWC-38D					
EPA 9315	Radium-226	1.57 ± 0.486 (0.402) C:77% T:NA	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	1.77 ± 0.570 (0.749) C:75% T:78%	pCi/L		04/01/21 12:41	
Total Radium Calculation	Total Radium	3.34 ± 1.06 (1.15)	pCi/L		04/02/21 14:31	
92526935007	FBL030921					
EPA 9315	Radium-226	0.120 ± 0.159 (0.327) C:81% T:NA	pCi/L		03/26/21 11:07	
EPA 9320	Radium-228	0.413 ± 0.425 (0.886) C:73% T:84%	pCi/L		04/01/21 12:41	
Total Radium Calculation	Total Radium	0.533 ± 0.584 (1.21)	pCi/L		04/02/21 14:31	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92526935008	EQBL030921					
EPA 9315	Radium-226	1.44 ± 0.597 (0.881)	pCi/L		03/26/21 11:16	
EPA 9320	Radium-228	C:57% T:NA -0.240 ± 0.342 (0.845)	pCi/L		04/01/21 12:41	
Total Radium Calculation	Total Radium	C:71% T:79% 1.44 ± 0.939 (1.73)	pCi/L		04/02/21 14:31	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-47D Lab ID: 92523254001 Collected: 02/17/21 16:31 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.311 ± 0.139 (0.133) C:86% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.226 ± 0.482 (1.06) C:76% T:73%	pCi/L	03/10/21 14:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.537 ± 0.621 (1.19)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-48D Lab ID: 92523254002 Collected: 02/17/21 13:27 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.301 ± 0.145 (0.175) C:82% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.802 ± 0.600 (1.18) C:66% T:73%	pCi/L	03/10/21 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.745 (1.36)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-9 **Lab ID: 92523254003** Collected: 02/17/21 15:58 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.127 ± 0.116 (0.222) C:82% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.565 ± 0.466 (0.933) C:68% T:73%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.692 ± 0.582 (1.16)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: **FBL021721** Lab ID: **92523254004** Collected: 02/17/21 16:40 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0580 ± 0.0823 (0.176) C:94% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.374 ± 0.403 (0.840) C:66% T:84%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.432 ± 0.485 (1.02)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL021721 Lab ID: 92523254005 Collected: 02/17/21 17:14 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0153 ± 0.0565 (0.175) C:92% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.456 ± 0.477 (0.996) C:65% T:83%	pCi/L	03/10/21 12:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.456 ± 0.534 (1.17)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: DUP-1 **Lab ID: 92523254006** Collected: 02/16/21 00:00 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.149 ± 0.108 (0.172) C:83% T:NA	pCi/L	03/16/21 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.753 ± 0.566 (1.12) C:69% T:68%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.902 ± 0.674 (1.29)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL021621 Lab ID: 92523254007 Collected: 02/16/21 15:25 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0269 ± 0.0832 (0.204) C:91% T:NA	pCi/L	03/16/21 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.185 ± 0.340 (0.745) C:77% T:81%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.212 ± 0.423 (0.949)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-17 **Lab ID: 92523254008** Collected: 02/18/21 13:40 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0907 ± 0.140 (0.311) C:67% T:NA	pCi/L	03/16/21 09:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.632 ± 0.435 (0.833) C:72% T:74%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.723 ± 0.575 (1.14)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-18 **Lab ID: 92523254009** Collected: 02/18/21 15:03 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0920 ± 0.124 (0.267) C:82% T:NA	pCi/L	03/16/21 09:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.528 ± 0.424 (0.835) C:71% T:63%	pCi/L	03/10/21 12:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.620 ± 0.548 (1.10)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-19 Lab ID: 92523254010 Collected: 02/18/21 16:28 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0511 ± 0.0933 (0.213) C:87% T:NA	pCi/L	03/16/21 09:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.995 ± 0.776 (1.52) C:37% T:73%	pCi/L	03/10/21 12:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.05 ± 0.869 (1.73)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-20 Lab ID: 92523254011 Collected: 02/18/21 15:38 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.398 ± 0.179 (0.258) C:91% T:NA	pCi/L	03/16/21 09:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.472 ± 0.435 (0.886) C:66% T:81%	pCi/L	03/10/21 12:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.870 ± 0.614 (1.14)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-6 Lab ID: 92523254012 Collected: 02/18/21 14:11 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.116 ± 0.121 (0.247) C:88% T:NA	pCi/L	03/16/21 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.116 ± 0.421 (0.950) C:67% T:79%	pCi/L	03/10/21 12:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.232 ± 0.542 (1.20)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-44D Lab ID: 92523254013 Collected: 02/18/21 11:07 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.243 ± 0.138 (0.209) C:89% T:NA	pCi/L	03/16/21 10:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.10 ± 0.579 (1.04) C:68% T:68%	pCi/L	03/10/21 12:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.34 ± 0.717 (1.25)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: DUP-2 **Lab ID: 92523254014** Collected: 02/18/21 00:00 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.218 ± 0.138 (0.222) C:83% T:NA	pCi/L	03/16/21 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.512 ± 0.417 (0.828) C:67% T:79%	pCi/L	03/10/21 12:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.730 ± 0.555 (1.05)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL021821 Lab ID: 92523254015 Collected: 02/18/21 16:40 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0280 ± 0.0645 (0.154) C:91% T:NA	pCi/L	03/16/21 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.481 ± 0.417 (0.842) C:70% T:80%	pCi/L	03/10/21 12:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.509 ± 0.482 (0.996)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL021821 Lab ID: 92523254016 Collected: 02/18/21 16:34 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.00741 ± 0.0978 (0.252) C:95% T:NA	pCi/L	03/16/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.167 ± 0.524 (1.17) C:68% T:82%	pCi/L	03/10/21 12:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.174 ± 0.622 (1.42)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-21 **Lab ID: 92523254017** Collected: 02/19/21 12:23 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.242 ± 0.139 (0.212) C:90% T:NA	pCi/L	03/16/21 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.759 ± 0.583 (1.17) C:64% T:75%	pCi/L	03/10/21 12:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00 ± 0.722 (1.38)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-22 Lab ID: 92523254018 Collected: 02/19/21 13:25 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.14 ± 0.323 (0.386) C:97% T:NA	pCi/L	03/16/21 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.49 ± 0.626 (1.06) C:68% T:85%	pCi/L	03/10/21 12:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.63 ± 0.949 (1.45)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-23 Lab ID: 92523254019 Collected: 02/19/21 13:46 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.452 ± 0.182 (0.240) C:97% T:NA	pCi/L	03/16/21 10:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.721 ± 0.590 (1.20) C:66% T:85%	pCi/L	03/10/21 12:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.17 ± 0.772 (1.44)	pCi/L	03/16/21 14:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-24 **Lab ID: 92523254020** Collected: 02/19/21 12:21 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.410 ± 0.182 (0.257) C:96% T:NA	pCi/L	03/15/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.661 ± 0.593 (1.22) C:68% T:86%	pCi/L	03/10/21 16:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.775 (1.48)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-34D Lab ID: 92523254021 Collected: 02/19/21 10:09 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.44 ± 0.350 (0.226) C:88% T:NA	pCi/L	03/15/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.793 ± 0.539 (1.05) C:63% T:93%	pCi/L	03/10/21 16:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.23 ± 0.889 (1.28)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL021921 Lab ID: 92523254022 Collected: 02/19/21 14:20 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0664 ± 0.137 (0.317) C:88% T:NA	pCi/L	03/15/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0357 ± 0.442 (1.01) C:69% T:94%	pCi/L	03/10/21 16:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.102 ± 0.579 (1.33)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL021921 Lab ID: 92523254023 Collected: 02/19/21 14:25 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.145 ± 0.118 (0.215) C:96% T:NA	pCi/L	03/15/21 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.704 ± 0.550 (1.35) C:65% T:83%	pCi/L	03/10/21 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.145 ± 0.668 (1.57)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-25 **Lab ID: 92523254024** Collected: 02/23/21 10:39 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.276 ± 0.140 (0.174) C:87% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.180 ± 0.348 (0.764) C:70% T:98%	pCi/L	03/10/21 15:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.456 ± 0.488 (0.938)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-32 Lab ID: 92523254025 Collected: 02/23/21 11:46 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.948 ± 0.263 (0.171) C:94% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.603 ± 0.383 (0.719) C:67% T:96%	pCi/L	03/10/21 15:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.55 ± 0.646 (0.890)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: DUP-4 **Lab ID: 92523254026** Collected: 02/23/21 00:00 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.113 ± 0.0869 (0.130) C:93% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.150 ± 0.279 (0.681) C:69% T:110%	pCi/L	03/10/21 15:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.113 ± 0.366 (0.811)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL022321 Lab ID: 92523254027 Collected: 02/23/21 14:24 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00342 ± 0.0518 (0.156) C:95% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.000714 ± 0.331 (0.772) C:70% T:94%	pCi/L	03/10/21 15:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.000714 ± 0.383 (0.928)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL022321 Lab ID: 92523254028 Collected: 02/23/21 14:30 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0787 ± 0.0892 (0.176) C:86% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.208 ± 0.414 (0.912) C:68% T:85%	pCi/L	03/10/21 15:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.287 ± 0.503 (1.09)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-51 **Lab ID: 92523254029** Collected: 02/23/21 12:54 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.282 ± 0.151 (0.224) C:95% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.307 ± 0.301 (0.615) C:70% T:95%	pCi/L	03/10/21 15:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.589 ± 0.452 (0.839)	pCi/L	03/15/21 14:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-52 **Lab ID: 92523254030** Collected: 02/23/21 11:04 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.353 ± 0.159 (0.207) C:94% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.214 ± 0.313 (0.675) C:71% T:92%	pCi/L	03/10/21 15:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.567 ± 0.472 (0.882)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-35D Lab ID: 92523254031 Collected: 02/22/21 15:01 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.51 ± 0.347 (0.158) C:98% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.520 ± 0.529 (1.10) C:77% T:89%	pCi/L	03/09/21 18:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.03 ± 0.876 (1.26)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-37D Lab ID: 92523254032 Collected: 02/22/21 14:01 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.510 ± 0.193 (0.219) C:89% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.22 ± 0.643 (1.15) C:78% T:80%	pCi/L	03/09/21 18:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.73 ± 0.836 (1.37)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-39 **Lab ID: 92523254033** Collected: 02/22/21 10:45 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.256 ± 0.135 (0.182) C:94% T:NA	pCi/L	03/15/21 07:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.642 (1.09) C:79% T:86%	pCi/L	03/09/21 18:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.65 ± 0.777 (1.27)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-40 **Lab ID: 92523254034** Collected: 02/22/21 12:24 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.355 ± 0.108 (0.117) C:96% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.958 ± 0.679 (1.33) C:77% T:83%	pCi/L	03/09/21 18:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.31 ± 0.787 (1.45)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-41D Lab ID: 92523254035 Collected: 02/22/21 12:44 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.592 ± 0.188 (0.266) C:93% T:NA	pCi/L	03/09/21 18:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.32 ± 0.626 (1.06) C:79% T:83%	pCi/L	03/09/21 18:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.91 ± 0.814 (1.33)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-42D Lab ID: 92523254036 Collected: 02/22/21 12:02 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.368 ± 0.129 (0.174) C:95% T:NA	pCi/L	03/09/21 18:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.210 ± 0.498 (1.11) C:78% T:84%	pCi/L	03/09/21 19:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.578 ± 0.627 (1.28)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-31 **Lab ID: 92523254037** Collected: 02/22/21 14:40 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.767 ± 0.183 (0.178) C:95% T:NA	pCi/L	03/09/21 18:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.299 ± 0.503 (1.10) C:81% T:78%	pCi/L	03/09/21 18:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.686 (1.28)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: DUP-3 **Lab ID: 92523254038** Collected: 02/22/21 00:00 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.482 ± 0.148 (0.184) C:87% T:NA	pCi/L	03/09/21 18:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.536 ± 0.530 (1.09) C:71% T:86%	pCi/L	03/09/21 18:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02 ± 0.678 (1.27)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL02221 Lab ID: 92523254039 Collected: 02/22/21 16:11 Received: 02/25/21 09:37 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0240 ± 0.0991 (0.305) C:96% T:NA	pCi/L	03/10/21 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.664 ± 0.444 (0.835) C:80% T:89%	pCi/L	03/09/21 18:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.664 ± 0.543 (1.14)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: EQBL022221 Lab ID: 92523254040 Collected: 02/22/21 16:14 Received: 02/25/21 09:37 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00925 ± 0.0708 (0.152) C:98% T:NA	pCi/L	03/09/21 18:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.776 ± 0.485 (0.894) C:76% T:88%	pCi/L	03/09/21 18:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.776 ± 0.556 (1.05)	pCi/L	03/15/21 14:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWA-2 **Lab ID: 92523249001** Collected: 02/16/21 14:18 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.283 ± 0.169 (0.284) C:94% T:NA	pCi/L	03/11/21 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.655 ± 0.415 (0.777) C:73% T:82%	pCi/L	03/05/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.938 ± 0.584 (1.06)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWA-29 **Lab ID: 92523249002** Collected: 02/16/21 12:10 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0390 ± 0.108 (0.260) C:87% T:NA	pCi/L	03/11/21 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.305 ± 0.366 (0.768) C:78% T:69%	pCi/L	03/05/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.344 ± 0.474 (1.03)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-8 **Lab ID: 92523249003** Collected: 02/16/21 14:26 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.145 ± 0.199 (0.440) C:90% T:NA	pCi/L	03/11/21 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.564 ± 0.376 (0.708) C:76% T:81%	pCi/L	03/05/21 14:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.709 ± 0.575 (1.15)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWA-33 **Lab ID: 92523249004** Collected: 02/19/21 09:42 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.681 ± 0.260 (0.356) C:86% T:NA	pCi/L	03/11/21 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.424 ± 0.340 (0.681) C:78% T:91%	pCi/L	03/05/21 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11 ± 0.600 (1.04)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-12 Lab ID: 92523249005 Collected: 02/19/21 11:16 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.207 ± 0.135 (0.220) C:94% T:NA	pCi/L	03/11/21 08:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.401 ± 0.331 (0.664) C:85% T:84%	pCi/L	03/05/21 11:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.608 ± 0.466 (0.884)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-7 **Lab ID: 92523249006** Collected: 02/18/21 10:30 Received: 02/19/21 16:08 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.703 ± 0.237 (0.244) C:93% T:NA	pCi/L	03/11/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.384 ± 0.342 (0.695) C:83% T:85%	pCi/L	03/05/21 11:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.09 ± 0.579 (0.939)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-10 Lab ID: 92523249007 Collected: 02/18/21 16:26 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.675 ± 0.241 (0.248) C:78% T:NA	pCi/L	03/11/21 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.847 ± 0.421 (0.745) C:84% T:81%	pCi/L	03/05/21 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52 ± 0.662 (0.993)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-14A Lab ID: 92523249008 Collected: 02/18/21 11:10 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.299 ± 0.157 (0.209) C:84% T:NA	pCi/L	03/11/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.702 ± 0.395 (0.733) C:81% T:87%	pCi/L	03/05/21 11:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.00 ± 0.552 (0.942)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-16 Lab ID: 92523249009 Collected: 02/18/21 12:33 Received: 02/19/21 16:08 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.220 ± 0.133 (0.200) C:93% T:NA	pCi/L	03/11/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.501 ± 0.509 (1.06) C:59% T:87%	pCi/L	03/05/21 15:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.721 ± 0.642 (1.26)	pCi/L	03/11/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FBL030821 Lab ID: 92526935001 Collected: 03/08/21 16:32 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.103 ± 0.157 (0.495) C:82% T:NA	pCi/L	03/26/21 09:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.530 ± 0.402 (0.801) C:73% T:89%	pCi/L	04/01/21 12:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.530 ± 0.559 (1.30)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL030821 Lab ID: 92526935002 Collected: 03/08/21 16:42 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0488 ± 0.137 (0.341) C:68% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.203 ± 0.352 (0.853) C:73% T:82%	pCi/L	04/01/21 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0488 ± 0.489 (1.19)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-36D Lab ID: 92526935003 Collected: 03/08/21 13:05 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.03 ± 0.386 (0.364) C:73% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.06 ± 0.480 (0.817) C:75% T:82%	pCi/L	04/01/21 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.09 ± 0.866 (1.18)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: BGWC-43D **Lab ID: 92526935004** Collected: 03/08/21 15:24 Received: 03/10/21 08:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.627 ± 0.303 (0.392) C:80% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.714 ± 0.457 (0.879) C:71% T:85%	pCi/L	04/01/21 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.34 ± 0.760 (1.27)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-30 Lab ID: 92526935005 Collected: 03/08/21 11:50 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.339 ± 0.257 (0.433) C:66% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0896 ± 0.367 (0.830) C:74% T:82%	pCi/L	04/01/21 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.429 ± 0.624 (1.26)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-38D Lab ID: 92526935006 Collected: 03/09/21 11:12 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.57 ± 0.486 (0.402) C:77% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.77 ± 0.570 (0.749) C:75% T:78%	pCi/L	04/01/21 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.34 ± 1.06 (1.15)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Sample: FBL030921 **Lab ID: 92526935007** Collected: 03/09/21 12:24 Received: 03/10/21 08:47 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.120 ± 0.159 (0.327) C:81% T:NA	pCi/L	03/26/21 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.413 ± 0.425 (0.886) C:73% T:84%	pCi/L	04/01/21 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.533 ± 0.584 (1.21)	pCi/L	04/02/21 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQBL030921 Lab ID: 92526935008 Collected: 03/09/21 16:10 Received: 03/10/21 08:47 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.44 ± 0.597 (0.881) C:57% T:NA	pCi/L	03/26/21 11:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.240 ± 0.342 (0.845) C:71% T:79%	pCi/L	04/01/21 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.44 ± 0.939 (1.73)	pCi/L	04/02/21 14:31	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch:	436983	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92523254034, 92523254035, 92523254036, 92523254037, 92523254038, 92523254039, 92523254040

METHOD BLANK: 2109306 Matrix: Water

Associated Lab Samples: 92523254034, 92523254035, 92523254036, 92523254037, 92523254038, 92523254039, 92523254040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch: 436494

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92523254001, 92523254002, 92523254003, 92523254004, 92523254005, 92523254006, 92523254007, 92523254008, 92523254009, 92523254010, 92523254011, 92523254012, 92523254013, 92523254014, 92523254015, 92523254016, 92523254017, 92523254018, 92523254019

METHOD BLANK: 2106796

Matrix: Water

Associated Lab Samples: 92523254001, 92523254002, 92523254003, 92523254004, 92523254005, 92523254006, 92523254007, 92523254008, 92523254009, 92523254010, 92523254011, 92523254012, 92523254013, 92523254014, 92523254015, 92523254016, 92523254017, 92523254018, 92523254019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.111 ± 0.349 (0.787) C:76% T:74%	pCi/L	03/10/21 12:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch:	436162	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92523249001, 92523249002, 92523249003, 92523249004, 92523249005, 92523249006, 92523249007, 92523249008, 92523249009		

METHOD BLANK:	2105104	Matrix:	Water
Associated Lab Samples:	92523249001, 92523249002, 92523249003, 92523249004, 92523249005, 92523249006, 92523249007, 92523249008, 92523249009		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.257 ± 0.261 (0.677) C:77% T:85%	pCi/L	03/05/21 11:09	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch: 439298

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92526935001, 92526935002, 92526935003, 92526935004, 92526935005, 92526935006, 92526935007, 92526935008

METHOD BLANK: 2120869

Matrix: Water

Associated Lab Samples: 92526935001, 92526935002, 92526935003, 92526935004, 92526935005, 92526935006, 92526935007, 92526935008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.265 ± 0.289 (0.590) C:61% T:NA	pCi/L	03/26/21 10:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch: 436161

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92523249001, 92523249002, 92523249003, 92523249004, 92523249005, 92523249006, 92523249007, 92523249008, 92523249009

METHOD BLANK: 2105102

Matrix: Water

Associated Lab Samples: 92523249001, 92523249002, 92523249003, 92523249004, 92523249005, 92523249006, 92523249007, 92523249008, 92523249009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0577 ± 0.0970 (0.218) C:94% T:NA	pCi/L	03/11/21 08:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch:	436984	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92523254031, 92523254032, 92523254033, 92523254034, 92523254035, 92523254036, 92523254037, 92523254038, 92523254039, 92523254040

METHOD BLANK:	2109307	Matrix:	Water
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Associated Lab Samples: 92523254031, 92523254032, 92523254033, 92523254034, 92523254035, 92523254036, 92523254037, 92523254038, 92523254039, 92523254040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

QC Batch: 436492

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92523254001, 92523254002, 92523254003, 92523254004, 92523254005, 92523254006, 92523254007, 92523254008, 92523254009, 92523254010, 92523254011, 92523254012, 92523254013, 92523254014, 92523254015, 92523254016, 92523254017, 92523254018, 92523254019

METHOD BLANK: 2106795

Matrix: Water

Associated Lab Samples: 92523254001, 92523254002, 92523254003, 92523254004, 92523254005, 92523254006, 92523254007, 92523254008, 92523254009, 92523254010, 92523254011, 92523254012, 92523254013, 92523254014, 92523254015, 92523254016, 92523254017, 92523254018, 92523254019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0697 ± 0.0862 (0.175) C:81% T:NA	pCi/L	03/16/21 09:41	

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QUALIFIERS

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523249001	BGWA-2	EPA 9315	436161		
92523249002	BGWA-29	EPA 9315	436161		
92523249003	BGWC-8	EPA 9315	436161		
92523249004	BGWA-33	EPA 9315	436161		
92523249005	BGWC-12	EPA 9315	436161		
92523249006	BGWC-7	EPA 9315	436161		
92523249007	BGWC-10	EPA 9315	436161		
92523249008	BGWC-14A	EPA 9315	436161		
92523249009	BGWC-16	EPA 9315	436161		
92523254001	BGWA-47D	EPA 9315	436492		
92523254002	BGWA-48D	EPA 9315	436492		
92523254003	BGWC-9	EPA 9315	436492		
92523254004	FBL021721	EPA 9315	436492		
92523254005	EQBL021721	EPA 9315	436492		
92523254006	DUP-1	EPA 9315	436492		
92523254007	FBL021621	EPA 9315	436492		
92523254008	BGWC-17	EPA 9315	436492		
92523254009	BGWC-18	EPA 9315	436492		
92523254010	BGWC-19	EPA 9315	436492		
92523254011	BGWC-20	EPA 9315	436492		
92523254012	BGWA-6	EPA 9315	436492		
92523254013	BGWC-44D	EPA 9315	436492		
92523254014	DUP-2	EPA 9315	436492		
92523254015	FBL021821	EPA 9315	436492		
92523254016	EQBL021821	EPA 9315	436492		
92523254017	BGWC-21	EPA 9315	436492		
92523254018	BGWC-22	EPA 9315	436492		
92523254019	BGWC-23	EPA 9315	436492		
92523254020	BGWC-24	EPA 9315	436814		
92523254021	BGWC-34D	EPA 9315	436814		
92523254022	FBL021921	EPA 9315	436814		
92523254023	EQBL021921	EPA 9315	436814		
92523254024	BGWC-25	EPA 9315	436814		
92523254025	BGWC-32	EPA 9315	436814		
92523254026	DUP-4	EPA 9315	436814		
92523254027	FBL022321	EPA 9315	436814		
92523254028	EQBL022321	EPA 9315	436814		
92523254029	BGWC-51	EPA 9315	436814		
92523254030	BGWC-52	EPA 9315	436814		
92523254031	BGWC-35D	EPA 9315	436814		
92523254032	BGWC-37D	EPA 9315	436814		
92523254033	BGWC-39	EPA 9315	436814		
92523254034	BGWC-40	EPA 9315	436983		
92523254035	BGWC-41D	EPA 9315	436983		
92523254036	BGWC-42D	EPA 9315	436983		
92523254037	BGWC-31	EPA 9315	436983		
92523254038	DUP-3	EPA 9315	436983		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN RADS

Pace Project No.: 92523254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523254039	FBL022221	EPA 9315	436983		
92523254040	EQBL022221	EPA 9315	436983		
92526935001	FBL030821	EPA 9315	439298		
92526935002	EQBL030821	EPA 9315	439298		
92526935003	BGWC-36D	EPA 9315	439298		
92526935004	BGWC-43D	EPA 9315	439298		
92526935005	BGWC-30	EPA 9315	439298		
92526935006	BGWC-38D	EPA 9315	439298		
92526935007	FBL030921	EPA 9315	439298		
92526935008	EQBL030921	EPA 9315	439298		
92523249001	BGWA-2	EPA 9320	436162		
92523249002	BGWA-29	EPA 9320	436162		
92523249003	BGWC-8	EPA 9320	436162		
92523249004	BGWA-33	EPA 9320	436162		
92523249005	BGWC-12	EPA 9320	436162		
92523249006	BGWC-7	EPA 9320	436162		
92523249007	BGWC-10	EPA 9320	436162		
92523249008	BGWC-14A	EPA 9320	436162		
92523249009	BGWC-16	EPA 9320	436162		
92523254001	BGWA-47D	EPA 9320	436494		
92523254002	BGWA-48D	EPA 9320	436494		
92523254003	BGWC-9	EPA 9320	436494		
92523254004	FBL021721	EPA 9320	436494		
92523254005	EQBL021721	EPA 9320	436494		
92523254006	DUP-1	EPA 9320	436494		
92523254007	FBL021621	EPA 9320	436494		
92523254008	BGWC-17	EPA 9320	436494		
92523254009	BGWC-18	EPA 9320	436494		
92523254010	BGWC-19	EPA 9320	436494		
92523254011	BGWC-20	EPA 9320	436494		
92523254012	BGWA-6	EPA 9320	436494		
92523254013	BGWC-44D	EPA 9320	436494		
92523254014	DUP-2	EPA 9320	436494		
92523254015	FBL021821	EPA 9320	436494		
92523254016	EQBL021821	EPA 9320	436494		
92523254017	BGWC-21	EPA 9320	436494		
92523254018	BGWC-22	EPA 9320	436494		
92523254019	BGWC-23	EPA 9320	436494		
92523254020	BGWC-24	EPA 9320	436822		
92523254021	BGWC-34D	EPA 9320	436822		
92523254022	FBL021921	EPA 9320	436822		
92523254023	EQBL021921	EPA 9320	436822		
92523254024	BGWC-25	EPA 9320	436822		
92523254025	BGWC-32	EPA 9320	436822		
92523254026	DUP-4	EPA 9320	436822		
92523254027	FBL022321	EPA 9320	436822		
92523254028	EQBL022321	EPA 9320	436822		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523254029	BGWC-51	EPA 9320	436822		
92523254030	BGWC-52	EPA 9320	436822		
92523254031	BGWC-35D	EPA 9320	436984		
92523254032	BGWC-37D	EPA 9320	436984		
92523254033	BGWC-39	EPA 9320	436984		
92523254034	BGWC-40	EPA 9320	436984		
92523254035	BGWC-41D	EPA 9320	436984		
92523254036	BGWC-42D	EPA 9320	436984		
92523254037	BGWC-31	EPA 9320	436984		
92523254038	DUP-3	EPA 9320	436984		
92523254039	FBL022221	EPA 9320	436984		
92523254040	EQBL022221	EPA 9320	436984		
92526935001	FBL030821	EPA 9320	439300		
92526935002	EQBL030821	EPA 9320	439300		
92526935003	BGWC-36D	EPA 9320	439300		
92526935004	BGWC-43D	EPA 9320	439300		
92526935005	BGWC-30	EPA 9320	439300		
92526935006	BGWC-38D	EPA 9320	439300		
92526935007	FBL030921	EPA 9320	439300		
92526935008	EQBL030921	EPA 9320	439300		
92523249001	BGWA-2	Total Radium Calculation	438298		
92523249002	BGWA-29	Total Radium Calculation	438298		
92523249003	BGWC-8	Total Radium Calculation	438298		
92523249004	BGWA-33	Total Radium Calculation	438298		
92523249005	BGWC-12	Total Radium Calculation	438298		
92523249006	BGWC-7	Total Radium Calculation	438298		
92523249007	BGWC-10	Total Radium Calculation	438298		
92523249008	BGWC-14A	Total Radium Calculation	438298		
92523249009	BGWC-16	Total Radium Calculation	438298		
92523254001	BGWA-47D	Total Radium Calculation	438945		
92523254002	BGWA-48D	Total Radium Calculation	438945		
92523254003	BGWC-9	Total Radium Calculation	438945		
92523254004	FBL021721	Total Radium Calculation	438945		
92523254005	EQBL021721	Total Radium Calculation	438945		
92523254006	DUP-1	Total Radium Calculation	438945		
92523254007	FBL021621	Total Radium Calculation	438945		
92523254008	BGWC-17	Total Radium Calculation	438945		
92523254009	BGWC-18	Total Radium Calculation	438945		
92523254010	BGWC-19	Total Radium Calculation	438945		
92523254011	BGWC-20	Total Radium Calculation	438945		
92523254012	BGWA-6	Total Radium Calculation	438945		
92523254013	BGWC-44D	Total Radium Calculation	438945		
92523254014	DUP-2	Total Radium Calculation	438945		
92523254015	FBL021821	Total Radium Calculation	438945		
92523254016	EQBL021821	Total Radium Calculation	438945		
92523254017	BGWC-21	Total Radium Calculation	438945		
92523254018	BGWC-22	Total Radium Calculation	438945		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN RADS
Pace Project No.: 92523254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523254019	BGWC-23	Total Radium Calculation	438945		
92523254020	BGWC-24	Total Radium Calculation	438722		
92523254021	BGWC-34D	Total Radium Calculation	438722		
92523254022	FBL021921	Total Radium Calculation	438722		
92523254023	EQBL021921	Total Radium Calculation	438722		
92523254024	BGWC-25	Total Radium Calculation	438719		
92523254025	BGWC-32	Total Radium Calculation	438719		
92523254026	DUP-4	Total Radium Calculation	438719		
92523254027	FBL022321	Total Radium Calculation	438719		
92523254028	EQBL022321	Total Radium Calculation	438719		
92523254029	BGWC-51	Total Radium Calculation	438719		
92523254030	BGWC-52	Total Radium Calculation	438722		
92523254031	BGWC-35D	Total Radium Calculation	438722		
92523254032	BGWC-37D	Total Radium Calculation	438722		
92523254033	BGWC-39	Total Radium Calculation	438722		
92523254034	BGWC-40	Total Radium Calculation	438722		
92523254035	BGWC-41D	Total Radium Calculation	438722		
92523254036	BGWC-42D	Total Radium Calculation	438722		
92523254037	BGWC-31	Total Radium Calculation	438722		
92523254038	DUP-3	Total Radium Calculation	438722		
92523254039	FBL022221	Total Radium Calculation	438722		
92523254040	EQBL022221	Total Radium Calculation	438722		
92526935001	FBL030821	Total Radium Calculation	441617		
92526935002	EQBL030821	Total Radium Calculation	441617		
92526935003	BGWC-36D	Total Radium Calculation	441617		
92526935004	BGWC-43D	Total Radium Calculation	441617		
92526935005	BGWC-30	Total Radium Calculation	441617		
92526935006	BGWC-38D	Total Radium Calculation	441617		
92526935007	FBL030921	Total Radium Calculation	441617		
92526935008	EQBL030921	Total Radium Calculation	441617		

REPORT OF LABORATORY ANALYSIS

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laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92523254

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



Study Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/19/21 GWH*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Cooler Temp: *4.1* Correction Factor: Add/Subtract (°C): *0.0*

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.1*

ISDA Regulated Soil (N/A, water sample)

Did samples originate in a significant zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Per Applicant

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Marner Road
 Atlanta, GA 30339
 Requested Date: 10/15/08 7:29 PM
 Project Name: Plant Bowen Ash Pond
 Requested Date: 10/15/08 7:29 PM

Section B
 Required Project Information:
 Report For: Kristin Jurkus
 Copy To: Goshypack Contacts
 Purchase Order #: SC310348204
 Project Name: Plant Bowen Ash Pond
 Project #: 315

Section C
 Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Phone Order: [Blank]
 Field Project Manager: [Blank]
 Phone Order #: 315

Regulatory Agency: GA
 State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analyses Test	Metals 6020 Asp IV (See Lr)	Fluoride	Radon 226, 220	Residual Chlorine (Y/N)		
		START	TIME					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other	
1	BGWH-2																				
2	BGWA-29																				
3	BGWA-29																				
4	BGWA-17D			2/15/08	16:31			4	1	3											
5	BGWA-18D			2/15/08	15:27			4	1	3											
6	BGWC-7																				
7	BGWC-9																				
8	BGWC-9			2/10/08	15:58			4	1	3											
9	BGWC-10																				
10	BGWC-12																				
11	BGWC-14A																				
12	BGWC-16																				

MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	REMOVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
		Will Lauber / Resolute	2/19/08	16:08	[Signature]	2/19/08		

TEMP IN C

Received on Ice (Y/N)

Tightly Sealed Cooler (Y/N)

Samples intact (Y/N)

DATE PRINTED: 2/19/08

DATE: 2/19/08

PROJECT NAME AND SIGNATURE: [Signature]

2/2/21

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Walker Road
 Atlanta, GA 30339
 Contact: [Redacted]
 Requested Date: 2/2/21

Section B
 Required Project Information:
 Report To: Kristen Juniper
 Copy To: Geographic Contacts
 Project Name: Plant Bowen Ash Pond Scan
 Project # [Redacted]

Section C
 Invoice Information:
 Reference: [Redacted]
 Company Name: [Redacted]
 Address: [Redacted]
 Project Location: [Redacted]
 Project Phone # 315 [Redacted]

Regulatory Agency: [Redacted]
 State Location: GA

#	SAMPLE ID	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analyses Test	Y/N	Residual Chlorine (Y/N)
				START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	BUP	One Character per box [A-Z, 0-9, /, -] Sample IDs must be unique	01														
2	BUP		01														
3	EBL021721		01	2/17/21	1714		4	1	3					X	X	X	
4	EBL		01														
5	EQBL		01														
6	EQBL		01														
7	EQBL021721		01	2/17/21	1714		4	1	3					X	X	X	
8			01														
9			01														
10			01														
11			01														
12			01														

ADDITIONAL COMMENTS: Will Lanker / Resolute
 RELEASING BY/AFFILIATION: [Redacted]
 DATE: 2/19/21
 TIME: 1608
 ACCEPTOR BY/AFFILIATION: [Redacted]
 DATE: [Redacted]
 TIME: [Redacted]

SAMPLER NAME AND SIGNATURE:
 PRINT Name of Sampler: [Redacted]
 SIGNATURE of Sampler: [Redacted]
 DATE: 2/19/21

Section A

Section B
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2489 Miller Road
 Atlanta, GA 30389
 Requested Date: _____

Section C
 Requested Project Information:
 Project To: Kojin Turpin
 City To: Georgetown, Georgia
 Project Name: Pura Bowen Ash Pond Seep
 Project #: _____

Section D
 Invoice Information:
 Address: _____
 City/State: _____
 Project Manager: _____
 Project #: 315

Section E
 Requested Analysis Filtered (Y/N)
 Residual Chlorine (Y/N)
 Regulation Agency: _____
 State / Location: _____
 GA

#	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIONS						ANALYSES TEST	Y/N	TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3						
1	DNP-1	2/16/21	11		3												
2	QUP	2/16/21	1525		3												
3	FBL 0215021																
4	FBI																
5	EQBI																
6	EQBI																
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	REQUESTED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	REMARKS
	Will Leazer / Resolute	2/19/21	1008	[Signature]	2/16/21		

SAMPLER NAME AND SIGNATURE: _____

PRINT NAME OF SAMPLER: _____

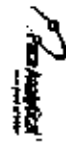
DATE: _____

TEMP IN C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____



Section A

Client Information:

Agency: Georgia Power - Coal Combustion Products
Address: 2400 Warner Road
Atlanta, GA 30339

Section B
Requested Project Information:

Report To: Mission Airfield
Copy To: Geographic Services

Section C
Project Information:

Address: [Blank]
Company Name: [Blank]
Address: [Blank]

URL: jlab@hampden.com
Phone: (404) 508-1228 Fax: [Blank]
Purchase Order #: SC2510248805
Project Name: Plant Brown Air Field Scan
Requested Due Date: [Blank]
Page Order: [Blank]
Total Project Charges: \$251,024.88
Special Project #: 315
Requested Analysis Method (Y/N): [Blank]
State / Location: GA

Page: 2 of 24

ITEM #	SAMPLE ID	DATE	TIME	SAMPLER	DATE	TIME	ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)	REMARKS
1	BGWC-17	2/18/21	13:40	Will Locker	2/19/21	16:08	Metals 8020 App. IV Fluoride Radon 226, 228	7.35	
2	BGWC-18	2/18/21	15:03	Will Locker	2/19/21	16:08	Metals 8020 App. IV Fluoride Radon 226, 228	6.48	
3	BGWC-19	2/14/21	16:28	Will Locker	2/19/21	16:08	Metals 8020 App. IV Fluoride Radon 226, 228	6.66	
4	BGWC-20	2/16/21	15:38	Will Locker	2/19/21	16:08	Metals 8020 App. IV Fluoride Radon 226, 228	7.35	
5	BGWC-21								
6	BGWC-22								
7	BGWC-23								
8	BGWC-24								
9	BGWC-25								
10	BGWB-60								
11	BGWA-6	2/18/21	14:11	Will Locker	2/19/21	16:08	Metals 8020 App. IV Fluoride Radon 226, 228	7.34	
12	BGWB-81								

ADDITIONAL COMMENTS: Will Locker / Resolute

RELINQUISHED BY / AFFILIATION: Will Locker / Resolute

DATE: 2/19/21

TIME: 16:08

ACCEPTED BY / AFFILIATION: Will Locker / Resolute

DATE: 2/19/21

TIME: 16:08

SAMPLER CONDITIONS:

TEMP in C: [Blank]

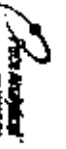
Received on Ice (Y/N): [Blank]

Correctly Sealed Cooler (Y/N): [Blank]

Sample Intact (Y/N): [Blank]

SAMPLER NAME AND SIGNATURE: Will Locker

DATE: 2/18/21



Section A

Client Information:

Agency: Georgia Power - Coal Combustion Residues
Address: 2400 Warner Road
Atlanta, GA 30339

Section B
Requested Project Information:

Report To: Kaitlin AUSTIN
Copy To: Geospatial Services

Section C
Analyst Information:

Analyst: [Blank]
Company Name: [Blank]
Address: [Blank]

Page: 3 of 14

Order #: 1441306-2280
Purchase Order #: SC510346908
Project Name: Plant Brown Ash Pond Scan
Requested Due Date: [Blank]
Project #: [Blank]
Project #: 315
Plant Project Manager: [Blank]
Plant Project #: 315
Regulatory Agency: State / Local / CA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Example: 10A1-01	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S-D-R-B-C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Metals 8020 App. IV	Fluoride	Radium 226, 228	Residual Chloride (Y/N)
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol					
1	BQW4-02																		
2	BQW4-03																		
3	BQW4-04																		
4	BQW4-05																		
5	BQW4-06																		
6	BQW4-07																		
7	BQW4-08																		
8	BQW4-09																		
9	BQW4-10																		
10	BQW4-11																		
11	BQW4-12																		
12	BQW4-13																		

ADDITIONAL COMMENTS	RECEIVED BY / APPROVAL	DATE	TIME	ACCEPTED BY / APPROVAL	DATE	TIME	SAMPLE CONDITIONS
	Will Lanker / Resolute	2/19/21	1608	[Signature]	2/19/21	1608	7.64

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Cooler Sealed Cooler (Y/N)	Samples Intact (Y/N)
PROJ Name of SAMP Site: K203 SIGNATURE of SAMP Site: [Signature]	DATE of SAMP: 2/18/21				

TEMP in C: [Blank]
Received on Ice (Y/N): [Blank]
Cooler Sealed Cooler (Y/N): [Blank]
Samples Intact (Y/N): [Blank]

Handwritten signature

Section B
Requested Project Information:
Report To: *Kaitlan Jantun*
Copy To: *Geospatial Contacts*

Section C
Project Information:
Address: *3480 Warner Road*
City: *Atlanta, GA 30338*
Project Manager: *Paul Brown/AM/PAID Scan*
Phone: *404/350-7230*
Fax: *404/350-7230*
Project #:

Requested Analysis Method (Y/N)
Residual Chlorine (Y/N)
GA

SAMPLE ID	DATE	TIME	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=SOIL C=COMB)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)
					START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	H2O2	Methanol			
1. BGMG-17																		
2. BGMG-18																		
3. BGMG-19																		
4. BGMG-20																		
5. BGMG-21	2/19/21	1223						4	1	3					X	X	X	7.64
6. BGMG-22	2/19/21	1325						4	1	3					X	X	X	6.90
7. BGMG-23	2/19/21	1346						4	1	3					X	X	X	7.05
8. BGMG-24	2/19/21	1221						4	1	3					X	X	X	6.66
9. BGMG-25																		
10. BGMG-30																		
11. BGMG-31																		

ADDITIONAL COMMENTS	RENDERED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	<i>Will Baker / Resolute</i>	2/19/21	1608	<i>[Signature]</i>						

SAMPLER NAME AND SIGNATURE

PRINT Name of Sampler: *Will Baker*

SIGNATURE OF SAMPLER: *[Signature]*

DATE: *2/19/21*

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

Handwritten signature

Section A

Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Street: 2400 Harris Road
 Atlanta, GA 30333
 Phone: (404)508-7298
 Fax: [blank]
 Requested Date: [blank]

Section B

Requested Project Information:

Request To: System Audit
 Copy To: Operations Contract
 Purchase Order #: SC81034808
 Project Name: Plant Bowen/4th Pond Basin
 Project #:

Section C

Inspection Information:

Inspector: [blank]
 Company Name: [blank]
 Address: [blank]
 Phone Number: [blank]
 Fax Number: [blank]
 Email: [blank]
 Requested Analysis Method (Y/N): [blank]

Page: 1 of 04

ITEM	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	RESIDUE CHLORINE (Y/N)	
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
1	BGWC-32														
2	BGWC-34D	2/17/21	1059		4	1	3								7.26
3	BGWC-34B														
4	BGWC-34G														
5	BGWC-37B														
6	BGWC-38B														
7	BGWC-39														
8	BGWC-40														
9	BGWC-41D														
10	BGWC-42B														
11	BGWC-43B														
12	BGWC-44D														

ADDITIONAL COMMENTS	REL INVOICED BY / APLICATION	DATE	TIME	ACCEPTED BY / APLICATION	DATE	TIME	SAMPLE CONDITIONS
	MILL LEAKAGE RESULTS	2/19/21	1608	[Signature]	2/19/21	1608	

TEMP IN C	Received on Ice (Y/N)	COOLING Beaded Cooler (Y/N)	Sample Intact (Y/N)

ANALYST NAME AND SIGNATURE: [Signature]
 FRONT NAME OF SIGNATURE: [Signature]
 SIGNATURE OF SIGNATURE: [Signature]
 DATE SIGNATURE: 2/19/21

Rockwell
LABORATORY

Section A

Client Information

Client Name: Georgia Power - Coal Combustion Products
 Address: 2400 Warner Road
 Atlanta, GA 30339
 Phone: (404) 526-1239
 Fax: (404) 526-1239
 E-mail: jstevens@gepower.com
 Project Name: Point Brown Ash Pond Scan
 Project #:

Section B

Sample Information

Sample ID: EQBL 021421
 Date: 2/14/21
 Time: 1425
 Location: William Leaker / Resolute
 Date: 2/19/21
 Time: 1608
 Analyst: K. Williams
 Project Manager: DENVY.MOORE@ROCKWELLLAB.COM
 Phone: 315

Section C

Regulatory Agency Information

Regulatory Agency: State of Louisiana
 Permit #: 42523250

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / . -)
 Sample ID's should be unique

NO	SAMPLE ID	DATE	TIME	ANALYST	PROJECT	LOCATION	TEMP AT COLLECTION	PRESERVATIVES		ANALYSE TEST	RESIDUAL CHLORINE (Y/N)
								UNPRESERVED	F2SO4		
1	EQBL 021421	2/14/21	1425	K. Williams	Point Brown Ash Pond Scan	William Leaker / Resolute	1608			Metals 6020 App. IV Fluoride Radium 226, 228	42523250
2											

LABORATORY NAME AND SIGNATURE
 FRONT NAME OF SAMPLE: K. Williams
 SIGNATURE OF ANALYST: [Signature]
 DATE OF ANALYSIS: 2/19/21

TEMP IN C
 Received on Ice (Y/N)
 Cooled in Cooler (Y/N)
 Samples intact (Y/N)

Revised

Section A
 Required Client Information:

Company: Georgia Power - Coal Combustion Products
 Address: 2400 North Road
 Atlanta, GA 30339
 Email: jehrding@scsusa.com
 Phone: (404)506-7228 Fax:
 Requested Date/Time:

Section B
 Required Project Information:

Report To: Kristen L. Jumbo
 Copy To: Geographic Contacts
 Purchase Order #: SCST0048908
 Project Name: Plant Brown Ash Pond Scan
 Project #:

Section C
 Analysis Information:

Analyst:
 Company Name:
 Address:
 Phone:
 Project Manager: Betsy mgd@scsusa.com
 Phone: 815

Page: 1 of 1

Requested Analysis Filtered (7/9)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Metals 8020 App. IV	Fluoride	Radon 226, 228	Residual Chlorine (Y/N)
				START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						
1	DUP																			
2	FBL030821																			
3	FBL030821																			
4	FBL030821																			
5	FBL030821																			
6	FBL030821																			
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS

RECOMMENDED BY / APPROVAL: *Ygn Williams / Parc* DATE: *3/16/21* TIME: *14:26*

ACCEPTED BY / APPROVAL: *Ygn Williams / Parc* DATE: *3/16/21* TIME: *09:47*

ANALYST: *Ygn Williams / Parc*

DATE ISSUED: *3/8/21*

TEMP IN C

Received on ice

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Rockwell

Section A
 Required Client Information

Company: Georgia Power - Coal Combustion Residuals
 Address: 2460 Mariner Road
 Atlanta, GA 30329
 Email: jhorvath@bostonsun.com
 Phone: (404)506-7239
 Fax:
 Requested Date:

Section B
 Required Project Information

Project For: System Airflow
 Report To: Georgia Dept. of Environmental Protection
 Project Name: Plant Bowen Ash Pond Scan
 Project ID:
 Purchase Order #: SC9108-0000
 Requested Date:

Section C
 Invoicing Information

Company Name:
 Address:
 City:
 State:
 Zip:
 Fax:
 Email: billy.mccallister@gaep.com
 Requested Date: 3/15

Page: 1 of 3

SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYZES TEST	RESIDUAL CHLORIDE (Y/N)	
				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Mercuric			Other
1. BGWG-9A-													
2. BGWG-34D-													
3. BGWG-36D-													
4. BGWC-36D	5/6	3/18/21	1305										
5. BGWG-37D-													
6. BGWG-38B-													
7. BGWG-39-													
8. BGWG-40-													
9. BGWG-41B-													
10. BGWG-42B-													
11. BGWC-43D	5/6	3/18/21	1524										
12. BGWG-44B-													

ADDITIONAL COMMENTS	COLLECTED BY / APPRANTION	DATE	TIME	ACCEPTED BY / APPRANTION	DATE	TIME	TEMP in C	RECEIVED ON	CUSTODY SEAL & COOLER (Y/N)	SAMPLE COMMENTS
	Gen Williams / Per	3/18/21	1426	Gen Williams / Per	3/18/21	0847				708

ANALYST NAME AND SIGNATURE: *Gen Williams*

DATE SIGNATURE: 3/18/21

TEMP in C: _____

RECEIVED ON: _____

CUSTODY SEAL & COOLER (Y/N): _____

SAMPLE COMMENTS: _____

For Analytical

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Mariner Road
 Atlanta, GA 30338
 Email: beth.hughes@epa.com
 Phone: (404) 526-7228
 Requested Date: [Blank]

Section B
 Requested Project Information:
 Report To: Kristin Miller
 Copy To: Geosynthetic Controls
 Request Order #: 2013040806
 Project Name: Port Bowen Ash Pond Scan
 Project #: [Blank]

Section C
 Analyte Information:
 Number: [Blank]
 Character Name: [Blank]
 Address: [Blank]
 Project Manager: POLSKY.MITCHELL@epa.gov
 Project Order #: 315

Regulatory Agency: [Blank]
 State / Location: GA

ITEM #	SAMPLE ID	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyte Test	Residual Chlorine (Y/N)
				DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Mg2SO3	Methanol		
1	BGMG-47	Soil	WT												
2	BGMG-10	Soil	WT												
3	BGWC-19	Water	WT												
4	BGMG-20	Soil	WT												
5	BGMG-21	Soil	WT												
6	BGWC-22	Water	WT												
7	BGMG-23	Soil	WT												
8	BGMG-24	Soil	WT												
9	BGMG-25	Soil	WT												
10	BGWC-30	Water	WT												
11	BGMA-8	Soil	WT												
12	BGMG-91	Soil	WT												

APPROVAL COMMENTS

ANALYZED BY / REGULATORY: [Blank]

ACCEPTED BY / REGULATORY: [Blank]

DATE: 3/10/21

TIME: 0847

TEMP IN C: [Blank]

Received on ice (Y/N): [Blank]

Cooler (Y/N): [Blank]

Sample Intact (Y/N): [Blank]

SAMPLER NAME AND SIGNATURE: [Blank]

DATE SIGNED: 3/8/21

Paul King

Section A
 Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Warner Road
 Atlanta, GA 30339
 Phone: (404)508-7208
 Fax: [blank]
 Requested Date Code: [blank]

Section B
 Required Project Information:

Project For: Nelson Jarrett
 Copy To: Geographic Outreach
 Purchase Order #: 9-510349005
 Project Name: Plant Bowen Ash Pond Scan
 Project #: [blank]

Section C
 Project Info/notes:

Project Manager: Daley, J.D. (daley@ge.com)
 Project #: 515
 Address: [blank]
 City: [blank]
 State: GA

ITEM #	SAMPLE ID	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)	
				START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	MeChanol			Other
1	BGMWC-42	One Chamber per box. (A-Z, Q-R / -)	DN WT VOL P M Q R S T U V W X Y Z														
2	BGMWC-34B																
3	BGMWC-39B																
4	BGMWC-38D																
5	BGMWC-37B																
6	BGMWC-38D			3/5	3/19/21	1112	4	3									
7	BGMWC-49																
8	BGMWC-40																
9	BGMWC-41B																
10	BGMWC-42D																
11	BGMWC-43D																
12	BGMWC-44D																

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	LABORATORY	CONDITION
<i>Ken Williams / PCC</i>	3/10/21	1428	<i>Ken Williams / PCC</i>	3/22	0951		

SAMPLE NAME AND SIGNATURE		DATE	TIME	TEMP °C	Received on Ice (Y/N)	Coolbox Sealed (Y/N)	Samples Intact (Y/N)
<i>Ken Williams / PCC</i>	<i>Ken Williams / PCC</i>	3/10/21	1428				

Pro Analytical

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Contact: 2480 Hester Road
 Address: Atlanta, GA 30309
 Phone: (404)506-7293 Fax:
 Requested Date: _____

Section B
 Requested Project Information:
 Project To: Killion Airfield
 Copy To: Georgia Power
 Project Order #: SC310348905
 Project Name: Plant Brown Ash Pond Basin
 Project #: _____

Section C
 Invoicing Information:
 Account:
 Company Name:
 Address:
 City/State:
 Project Manager: POSTUMONIA@PROANALYTICALS.COM
 Fax: _____
 Phone: _____
 Email: _____

Section D
 Requested Analysis Entered (TM)
 Residual Chlorine (Y/N)

Page 1 of 4

ITEM #	SAMPLE ID One Character per box, (A-Z, 0-9, /,) Samples list must be unique	MTRX CODE Matrix Dioxin Year Water Year Metal Year Pesticide Oil Year Air Year Soil Year	CODE DUV MT WT SAC A R Q M N C D	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES								Analysis Test Y/N	Residual Chlorine (Y/N)								
						START	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other			Metals 6020 App. IV	Fluoride	Radion 228, 226					
1	DUP-																									
2	DUP-																									
3	FBL 030924						3/6 3/9/24	1725					4	1	3											
4	FBL-																									
5	EQBL 030924						3/6 3/9/24	1625					4	1	3											
6	EQBL-																									
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS

REQUESTED BY / APPROVAL

DATE

TIME

ACCEPTED BY / APPROVAL

DATE

TIME

SAMPLE CONDITIONS

TEMP IN C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples intact (Y/N)

SAMPLER NAME AND SIGNATURE

FRONT SIGNATURE OF SAMPLER

DATE/TIME

DATE/TIME

LABORATORY ADDRESS

GA



Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Market Road
 Atlanta, GA 30339
 Email: jacobson@gaep.com
 Phone: (404) 506-1238
 Fax: [Blank]
 Requested Date Data: [Blank]

Required Project Information:

Report To: Kristen Jarrico
 Copy To: Geotryne, Corntask
 Purchase Order #: SCS10248208
 Project Name: Plant Bowen Ash Pond
 Project #:

Section C
Involved Information:

Address: [Blank]
 Company Name: [Blank]
 Project Manager: Kristy Madani@gaep.com
 POC Phone #: 315
 Regulatory Agency: State Inspection
 GA

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)	
			DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
1	BGWA-2	2102	11/18			4	1	3								4253249
2	BGWA-29	2102	11/18			4	1	3								8.00
3	BGWA-03															
4	BGWA-47D															
5	BGWA-46B															
6	BGWC-7															
7	BGWC-3		11/20			4	1	3								7.69
8	BGWC-9															
9	BGWC-40															
10	BGWC-42															
11	BGWC-14A															
12	BGWC-48															

MATRIX	CODE	DATE	TIME	ACCEPTED BY (APPLICATION)	DATE	TIME	SAMPLE COMMENTS
		11/18		Will Locker/Resolute	2/19/21	1608	Will Locker/Resolute

SAMPLER NAME AND SIGNATURE: [Blank]

DATE: [Blank]

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

Handwritten signature

Section A
 Client Information
 Georgia Power - Coal Combustion Products
 2480 Laurel Road
 Marietta, GA 30066
 Purchased From: *Handwritten*
 Project Name: Plant Bowen Ash Pond
 Project #:
 Requested Date: *Handwritten*

Section B
 Requested Project Information:
 Report To: *Handwritten*
 Contact For: *Handwritten*
 Project Order #: 60910048008
 Plant Bowen Ash Pond
 Project Name: Plant Bowen Ash Pond
 Project #:
 Requested Date: *Handwritten*

Section C
 Invoice Information:
 Account:
 Company Name:
 Address:
 Phone:
 Fax:
 Email:
 Website:

Section D
 Analytical Information:
 Matrix Code: *Handwritten*
 Sample Type: *Handwritten*
 Date: *Handwritten*
 Time: *Handwritten*
 Sample Temp at Collection: *Handwritten*
 # of Containers: *Handwritten*
 Preservation: *Handwritten*
 Analysis Test: *Handwritten*
 Residual Chlorine (Y/N): *Handwritten*

#	TYPE	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test			Residual Chlorine (Y/N)			
							Unpreserved	H2SO4	HNO3	HCl	NaOH	H2S2O3	Method	Other	Metals 6020 App. IV (See Lit)		Fluoride	Radium 226, 228	
1	BGWC-2																		
2	BGWA-29																		
3	BGWA-33		2/19/21	0942		4	1	3						X	X	X		7.73	
4	BGWA-47B																		
5	BGWA-49B																		
6	BGWC-5																		
7	BGWC-7																		
8	BGWC-8																		
9	BGWC-10																		
10	BGWC-12		2/19/21	1115		4	1	3						X	X	X		7.0	
11	BGWC-14A																		
12	BGWC-16																		

RECOMMENDED BY / INSTALLATION: *Handwritten*

DATE: 2/19/21

TIME: 1608

ACCEPTED BY / INSTALLATION: *Handwritten*

DATE: 2/19/21

TIME: 1608

SAMPLER NAME AND SIGNATURE: *Handwritten*

DATE: 2/19/21

TEMP IN C: *Handwritten*

Received on IS (Y/N): *Handwritten*

Cooled (Y/N): *Handwritten*

Cooler (Y/N): *Handwritten*

Samples intact (Y/N): *Handwritten*

Handwritten signature

Section A
 Project Client Information:
 Company: Georgia Power - Coal Combustion Products
 Address: 2480 Miller Road
 Atlanta, GA 30339
 Contact: jwhitman@gepower.com
 Phone: (404) 908-7229
 Requested Date: _____

Section B
 Required Project Information:
 Report To: Kieran Justice
 Copy To: Geographic Centers
 Purchase Order #: 3C310246936
 Project Name: Part Bower Ash Pond
 Project #: _____

Section C
 Invoicing Information:
 Reference: _____
 Company Name: _____
 Address: _____
 State/City: _____
 Project Manager: bobby.madden@epiinc.com
 Phone/Fax #: 315
 Regulatory Agency: _____
 State/Location: GA

ITEM #	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS								Analytes Test	Metals 6025 App. IV (See Ls)	Fluoride	Radium 226, 228	Residual Chlorine (770)
					Unpreserved	N2B04	HNO3	HC1	NaOH	Na2S2O3	Methanol	Other					
1	BGWA-2																
2	BGWA-29																
3	BGWA-33																
4	BGWA-47D																
5	BGWA-48D																
6	BGWC-7	2/18/21	1035														
7	BGWA-6																
8	BGWA-9																
9	BGWC-10	2/19/21	1102														
10	BGWC-12																
11	BGWC-14A	2/18/21	1110														
12	BGWC-16	2/18/21	1235														

MATRIX	DATE	TIME	ANALYZED BY / LABRATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDUCTIVE
Matrix 1	2/18/21	1035	Will Locker / Resolute	2/18/21	1608	<i>[Signature]</i>	2/18/21	1105	6.66

LABORATORY NAME AND SIGNATURE

PROJECT NAME OF SAMPLES: _____

SIGNATURE OF SAMPLES: *[Signature]*

DATE: 2/18/21

TEMP IN C: _____

Received on: _____

Category: _____

Sample Code: _____

Sample Size: _____

Handwritten signature

Section A

Client Information:
 Agency: Georgia Power - Coal Combustion Residuals
 Site: 2400 Lamar Road
 Atlanta, GA 30339
 Email: Marketing@gepower.com
 Phone: (404) 505-7200
 Project #:

Section B

Requested Project Information:
 Report To: Kevin Lutzer
 Copy To: Geographic Contacts
 Purchase Order #: SC15104805
 Project Name: Plant Bowen Ann Period Scan
 Project #:

Section C

Sample Information:
 Analyst:
 Company Name:
 Address:
 Phone Number:
 Project Manager: Debra.Jones@gepower.com
 Project Profile #: 315
 Regulatory Agency:
 State / Location:
 GA

NO	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Residual Chlorine (Y/N)	
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol			Other
1	BGWC-17														
2	BGWC-18														
3	BGWC-19														
4	BGWC-20														
5	BGWC-21														
6	BGWC-22														
7	BGWC-23														
8	BGWC-24														
9	BGWC-25	4/23/21	1039		4										
10	BGWC-30														
11	BGWA-8														
12	BGWC-31														

NO	ADDITIONAL COMMENTS	REMOVED BY / AFFILIATION	NAME	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE COMMENTS
			Kevin Lutzer	2/25/21	Kevin Lutzer	2/25/21	6957	
			Kevin Lutzer	2/25/21	Kevin Lutzer	2/25/21	1326	

PH: 7.44

Received on 2/25/21

Sealed Cooler (Y/N)

Samples intact (Y/N)

Procter & Gamble

Section B
 Section C
 Section D

Client Information: Georgia Power - Oak Creek Station
 Project Name: Plant Bowen Ash Pond Scan
 Project #:
 Date:
 Location: 2400 Lamar Road
 City: Atlanta, GA 30329
 Contact: (404) 526-7229
 Analyst: [Blank]
 Date: [Blank]

ITEM #	DESCRIPTION	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATION							ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)					
					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other				
1	DUP-4	2/23/21	1424	41	3													
2	DUP-																	
3	FBL 022321	2/23/21	1424	41	3													
4	FBL																	
5	EOBL 022321	2/23/21	1430	41	3													
6	FOBL																	
7	BGWC-51	2/23/21	1254	41	3													
8	BGWC-52	2/23/21	1104	41	3													
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS: [Blank]
 REQUESTED BY / APPROVAL: [Blank]
 DATE: [Blank]
 TIME: [Blank]
 ACCEPTED BY / APPROVAL: [Blank]
 DATE: [Blank]
 TIME: [Blank]

SAMPLER NAME AND SIGNATURE: [Blank]
 PRINT Name of SAMPLER: [Blank]
 SIGNATURE of SAMPLER: [Blank]
 DATE Signed: [Blank]

Handwritten signature

Section B
 Required Project Information:

Project Name: Georgia Power - Coal Combustion Residuals
 Project ID: 2400 Alameda Road
 Address: Atlanta, GA 30309
 Purchaser Order #: SC815040005
 Project Name: West Brown Ash Pond Scan
 Project ID: 1401008-1220
 Project ID: 1401008-1220
 Project ID: 1401008-1220

Section C
 Inlet Information:

Project Name: Georgia Power - Coal Combustion Residuals
 Project ID: 2400 Alameda Road
 Address: Atlanta, GA 30309
 Purchaser Order #: SC815040005
 Project Name: West Brown Ash Pond Scan
 Project ID: 1401008-1220
 Project ID: 1401008-1220
 Project ID: 1401008-1220

Page: 1 of 3

ITEM	SAMPLE ID	DATE	TIME	MATERIAL CODE (G-GRAB OR COMB)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)		
					START	TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	H2S2O3	Methanol			Other	Metals 6020 App. IV
1	BGWC-01																	
2	BGWC-34D	2/22/21	1501	1401	411	3												7.14
3	BGWC-35D	2/22/21	1501	1401	411	3												7.44
4	BGWC-36D	2/22/21	1501	1401	411	3												7.14
5	BGWC-37D	2/22/21	1501	1401	411	3												7.44
6	BGWC-38D	2/22/21	1501	1401	411	3												7.44
7	BGWC-39	2/22/21	1501	1401	411	3												7.44
8	BGWC-40	2/22/21	1501	1401	411	3												7.44
9	BGWC-41D	2/22/21	1501	1401	411	3												7.44
10	BGWC-42D	2/22/21	1501	1401	411	3												7.44
11	BGWC-43D	2/22/21	1501	1401	411	3												7.44
12	BGWC-44D	2/22/21	1501	1401	411	3												7.44

REQUISITIONED BY (APPRAISON)	DATE	TIME	APPROVED BY (APPRAISON)	DATE	TIME	SAMPLE DESCRIPTION
<i>Kevin S. Williams</i>	2/25/21	1359	<i>Kevin S. Williams</i>	2/25/21	0934	

SAMPLER NAME AND LOCATION		TEMP IN C	RECEIVED ON (Y/N)	QUANTITY	SEALS	COLOR	ODOR	SAMPLE INTACT (Y/N)
<i>Kevin S. Williams</i>	<i>West Brown Ash Pond</i>							

Free Analytical

Section A

Client Information:
 Georgia Power - Coal Conversion Remedial
 2400 Hester Road
 Atlanta, GA 30309
 Purchasing Agent: [Name]
 Phone: (404) 208-7229 Fax: [Number]
 Email: [Address]
 Project Name: [Name]
 Project No: [Number]

Section B

Received Project Information:
 Report To: [Name]
 Copy To: [Name]
 Purchase Order #: SC6104608
 Project Name: [Name]
 Project No: [Number]

Section C

Service Information:
 Academic: [Name]
 Company Name: [Name]
 Address: [Address]
 Phone Order: [Number]
 Project Manager: [Name]
 Phone/Fax: [Number]

Page: 1 of 2

ITEM #	SAMPLE ID	DATE	TIME	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST	RESIDUE CHLORINE (Y/N)	
						START	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	H2O2/H2O	Methanol			Other
1	BGWC-17																	
2	BGWC-18																	
3	BGWC-19																	
4	BGWC-20																	
5	BGWC-21																	
6	BGWC-22																	
7	BGWC-23																	
8	BGWC-24																	
9	BGWC-25																	
10	BGWC-26																	
11	BGWC-27																	
12	BGWC-31	2/22/21	1440															7.21

APPROVAL COMMENTS	REMOVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
	[Signature]	2/22/21	1440	[Signature]	2/22/21	1440	
	[Signature]	2/22/21	1440	[Signature]	2/22/21	1440	

TEMP IN C	Received on Ice (Y/N)	Cooled/Sealed/Cooler (Y/N)	Samples (Y/N)

Bohannon

Section B
 Requested Project Information:
 Requested Client Information:
 Project: Georgia Power - Coal Combustion Residuals
 Project Title: Kester Landfill
 Address: 2450 Barlow Road
 City/Town: Gainesville, Georgia
 State: GA 30538
 Phone: (404) 305-7228
 Fax: [Blank]
 Requested Date: [Blank]

Section C
 Invoice Information:
 Order Number: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 City/Town: [Blank]
 State: [Blank]
 Zip: [Blank]
 Phone: [Blank]
 Fax: [Blank]
 Email: [Blank]

Regulatory Agency:
 State of Georgia
 Department of Natural Resources
 Division of Environmental Protection
 200 West Peachtree Street, N.W.
 Atlanta, GA 30334
 Phone: (404) 656-3000
 Fax: (404) 656-3000
 Email: [Blank]

ITEM #	DESCRIPTION	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)				
						Unpreserved	H2SO4	HNO3	HCl	NaOH	MgO2003	Methanol	Other			Metals 6220 App. IV	Fluoride	Radium 226, 228	
1	DUP 3 One Chemical per box (4oz, 8oz, 1oz) Samples are used for analysis	2/22/21	1611		4	1	3												
2	DUP																		
3	FBR 6 22221	2/22/21	1611		4	1	3												
4	FBR																		
5	EOBL 022221	2/22/21	1614		4	1	3												
6	FBR																		
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS:
 NO. INCURRED BY/APPRAISAL:
 DATE: 3/15/21
 TIME: 1359
 ACCEPTED BY/APPRAISAL:
 DATE: 3/15/21
 TIME: 0934
 SAMPLE CONDITIONS:
 SAMPLE ID: [Blank]

QUALIFIER NAME AND SIGNATURE:
 PROJECT NAME OF QUALIFIER:
 SIGNATURE OF QUALIFIER:
 DATE SIGNATURE: 2/22/21
 TEMP IN C:
 Received on ice (Y/N):
 Custody Sealed Cooler (Y/N):
 Samples Intact (Y/N):

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/3/2021
Worksheet: 58971
Matrix: DW

Method Blank Assessment

MB Sample ID	2105102
MB Concentration:	0.089
MB Counting Uncertainty	0.097
MB MDC:	0.218
MB Numerical Performance Indicator:	1.17
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
LCSD58971	3/11/2021
LCSD58971	3/11/2021
Count Date:	3/11/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/L):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.503
Target Conc. (pCi/L, g, F):	4.785
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.183
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.544
Numerical Performance Indicator:	1.32
Percent Recovery:	107.68%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment

Sample ID:	LCSD58971
Duplicate Sample ID:	LCSD038971
Sample Result (pCi/L, g, F):	5.153
Sample Result Counting Uncertainty (pCi/L, g, F):	0.544
Sample Duplicate Result (pCi/L, g, F):	4.885
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.523
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.474
(Based on the LCSD/LCSD Percent Recovery) Duplicate RPD:	11.57%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Enter Duplicate sample IDs if other than LCSD/LCSD in the space below:
8252259003
8252259003DU

Sample Matrix Spike Control Assessment

Sample Collection Date:	
Sample ID:	
Sample MS ID:	
Sample MSD ID:	
Spike ID:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

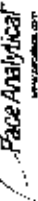
Sample ID:	
Sample MS ID:	
Sample MSD ID:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recovery) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Call 3/11/21
LAL 3/11/21

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
 Analyst: LAL
 Date: 3/17/2021
 Worksheet: 58971
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2105102
MB Concentration	0.058
MB Counting Uncertainty	0.087
MB MDC	0.218
MB Numerical Performance Indicator	1.17
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment	
LCSID (Y or M)	N
LCS58971	LCS58971
Count Date:	3/17/2021
Spike I.D.:	49-003
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volumes Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc. (pCi/L, g, F):	4.785
Uncertainty (Calculation):	0.657
Result (pCi/L, g, F):	5.153
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.544
Numerical Performance Indicator:	1.32
Percent Recovery:	107.68%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limit:	125%
Lower % Recovery Limit:	75%

Duplicate Sample Assessment	
Sample I.D.:	92522290003
Duplicate Sample I.D.:	92522290003DUP
Sample Result (pCi/L, g, F):	0.315
Sample Result Counting Uncertainty (pCi/L, g, F):	0.170
Sample Duplicate Result (pCi/L, g, F):	0.332
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.170
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	-0.131
Duplicate RPD:	4.99%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

⚠ Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

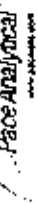
Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limit:	
MS/MSD Lower % Recovery Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

LAM 3/11/21

3/17/2021

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields. Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/15/2021
Worklist: 59052
Matrix: DW

Method Blank Assessment	
MB Sample ID	Z108378
MB Concentration	0.059
MS Counting Uncertainty	0.107
MB MDC	0.246
MB Numerical Performance Indicator	1.08
MB Status vs Numerical Indicator	N/A
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment		LCSU (Y or N)?	Y
Count Date:	3/15/2021	LCS059052	2/15/2021
Spike ID:	19-033	LCS059052	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	LCS059052	24.039
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.504		0.520
Target Conc. (pCi/L, g, F):	4.766		4.624
Uncertainty (Calculated):	0.057		0.055
Result (pCi/L, g, F):	4.609		4.447
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.481		0.463
Numerical Performance Indicator:	-0.63		-0.74
Percent Recovery:	96.71%		98.18%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limit:	125%		125%
Lower % Recovery Limit:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS059052
Duplicate Sample I.D.:	LCS059052
Sample Result (pCi/L, g, F):	4.609
Sample Duplicate Result (pCi/L, g, F):	0.481
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.447
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.463
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.476
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.59%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

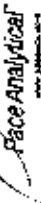
Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (Calculated):			
MSD Spike Uncertainty (Calculated):			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limit:			
MS/MSD Lower % Recovery Limit:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

MS/MSD
LCS059052

Quality Control Sample Performance Assessment



ALWAYS! Must Manually Enter All Fields Highlighted in Yellow.

Test: Riv-228
Analyst: LAL
Date: 3/5/2021
Worklist: 99052
Matrix: CW

Method Blank Assessment	MB Sample ID: 2108378
MB Concentration:	0.059
MB Counting Uncertainty:	0.107
MB MDC:	0.246
MB Numerical Performance Indicator:	1.08
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

LCSD ID or N1?	N
LCSD09052	LCSD09052
Count Date:	3/15/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.504
Target Conc. (pCi/L, g, F):	4.756
Uncertainty (Calculated):	0.067
Result (pCi, g, F):	4.609
LCSD/CSO Counting Uncertainty (pCi/L, g, F):	0.481
Numerical Performance Indicator:	-0.63
Percent Recovery:	96.71%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	Sample ID: 92523254020	Enter Duplicate sample IDs if other than LCSD/CSO in the space below: 92523254020 92523254020UP
Duplicate Sample ID:	92523254020UP	
Sample Result (pCi/L, g, F):	0.410	
Sample Duplicate Result (pCi/L, g, F):	0.172	
Sample Duplicate Result (pCi/L, g, F):	0.371	
Sample Duplicate Result (pCi/L, g, F):	0.176	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.311	
Duplicate RPD:	9.99%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Sample Matrix Spike Control Assessment	MSMSD 1	MSMSD 2
Sample Collection Date: Sample ID: Sample MS ID: Sample MSD ID: Spike ID: MSMSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MSMSD Upper % Recovery Limits: MSMSD Lower % Recovery Limits:		

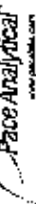
Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample ID: Sample MS ID: Sample MSD ID: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:
---	--

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

171-5118-121
171-5118-121

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: VAL
 Date: 3/3/2021
 Worksheet: 58972
 Matrix: W/T

Analyst Must Manually Enter All Fields Highlighted in Yellow

Method Blank Assessment

MB Sample ID	2105104
MB Concentration	-0.257
MB 2 Sigma CSU	0.261
MB MDC	0.677
MB Numerical Performance Indicator	1.93
MB Status vs Numerical Indicator	Pass
MB Status vs MDC	Pass

Laboratory Control Sample Assessment

LCS ID or N/A?	Y
LCS58972	3/5/2021
Count Date	3/5/2021
Spike ID	21-003
Decay Corrected Spike Concentration (pCi/mL)	38.585
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.806
Target Conc. (pCi/L, g, F)	4.731
Uncertainty (Calculated)	0.232
Result (pCi/L, g, F)	5.118
LCS/LCSD 2 Sigma CSU (pCi/L, g, F)	1.130
Numerical Performance Indicator	0.66
Percent Recovery	108.21%
Status vs Numerical Indicator	N/A
Status vs Recovery	Pass
Upper % Recovery Limit	135%
Lower % Recovery Limit	80%

Duplicate Sample Assessment

Sample ID:	LCS58972
Duplicate Sample ID	LCSD58972
Sample Result (pCi/L, g, F)	5.119
Sample Result 2 Sigma CSU (pCi/L, g, F)	1.130
Sample Duplicate Result (pCi/L, g, F)	3.675
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F)	0.840
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator	2.011
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD	53.97%
Duplicate Status vs Numerical Indicator	Warning
Duplicate Status vs RPD	Pass
% RPD Limit	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

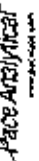
Sample Matrix Spike Control Assessment

Sample Collection Date	
Sample ID	
Sample MS ID	
Sample MSD ID	
Spike ID	
MS/MSD Decay Corrected Spike Concentration (pCi/mL)	
Spike Volume Used in MS (mL)	
Spike Volume Used in MSD (mL)	
MS Adjust (L, g, F)	
MS Target Conc. (pCi/L, g, F)	
MSD Aliquot (L, g, F)	
MSD Target Conc. (pCi/L, g, F)	
MS Spike Uncertainty (Calculated)	
MSD Spike Uncertainty (Calculated)	
Sample Result	
Sample Result 2 Sigma CSU (pCi/L, g, F)	
Sample Matrix Spike Result	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	
MS Numerical Performance Indicator	
MSD Numerical Performance Indicator	
MS Percent Recovery	
MSD Percent Recovery	
MS Status vs Numerical Indicator	
MSD Status vs Numerical Indicator	
MS Status vs Recovery	
MSD Status vs Recovery	
MS/MSD Upper % Recovery Limit	
MS/MSD Lower % Recovery Limit	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample ID	
Sample MS ID	
Sample MSD ID	
Sample Matrix Spike Result	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	
Duplicate Numerical Performance Indicator	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD	
MS/MSD Duplicate Status vs Numerical Indicator	
MS/MSD Duplicate Status vs RPD	
% RPD Limit	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: **R3-228**
 Analyst: **VAL**
 Date: **3/6/2021**
 Worksheet: **590559**
 Matrix: **WT**

Method Blank Assessment	
MB Sample ID	2104397
MB Concentration:	0.261
MB 2 Sigma CSU	0.354
MB MDC:	0.757
MB Numerical Performance Indicator:	1.44
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSS9059	LCSD59059
Count Date:	3/10/2021	3/10/2021
Spike ID:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.521	38.531
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.804	0.804
Target Conc. (pCi/L, g, F):	4.789	4.789
Uncertainty (Calculated):	0.235	0.235
Result (pCi/L, g, F):	4.785	3.738
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.084	0.878
Numerical Performance Indicator:	-0.01	-2.26
Percent Recovery:	99.93%	78.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	LCSS9059	LCSD59059
Sample ID:	4.785	4.785
Duplicate Sample ID:	1.084	1.084
Sample Result 2 Sigma CSU (pCi/L, g, F):	3.738	3.738
Sample Duplicate Result (pCi/L, g, F):	0.878	0.878
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	NO
Ave sample and/or duplicate results below RL?	1.472	1.472
Duplicate Numerical Performance Indicator:	24.57%	24.57%
(Based on the LCSD/LCSD Percent Recovery) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate prediction is not applicable if either the sample or duplicate results are below the MDC.

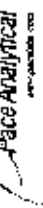
Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample ID: Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recovery) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

OK

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/6/2021
Worklist: 59015
Matrix: DW

Method Blank Assessment	
MB Sample ID	2106795
MB Concentration:	0.070
MB Counting Uncertainty:	0.086
MB MDC:	0.175
MB Numerical Performance Indicator:	1.80
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS59015	LCS59015
Count Date:	3/18/2021
Spike I.O.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.514
Target Conc. (pCi/L, g, F):	4.874
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	4.800
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.482
Numerical Performance Indicator:	0.51
Percent Recovery:	102.70%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample ID:	92523254003
Duplicate Sample ID:	92523254003DUP
Sample Result (pCi/L, g, F):	0.127
Sample Duplicate Result (pCi/L, g, F):	0.171
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.460
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-0.445
Duplicate RPD:	29.93%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

***Batch method base area speed base to use as per 2019/03/06 discussion N/A VAM 3/10/21

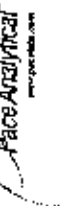
Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limit: MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Handwritten notes: "N/A", "3/10/21", "VAM 3/10/21"

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: LAL
 Date: 3/4/2021
 Worksheet: 59016
 Matrix: DW

Method Blank Assessment

MB Sample ID	2106785
MB concentration:	0.070
MB Counting Uncertainty:	0.086
MB MDC:	0.175
MB Numerical Performance Indicator:	1.60
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	N
LCSD59016	LCSD59016
Count Date:	3/18/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.514
Target Conc (pCi/L, g, F):	4.974
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	4.800
LCSD Counting Uncertainty (pCi/L, g, F):	0.482
Numerical Performance Indicator:	0.51
Percent Recovery:	102.70%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment

Sample I.D.:	92523254004
Duplicate Sample I.D.:	92523254040DUP
Sample Result (pCi/L, g, F):	0.058
Sample Duplicate Result (pCi/L, g, F):	0.082
Sample Duplicate Result Uncertainty (pCi/L, g, F):	-0.024
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.073
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	1.470
Duplicate RPO:	489.28%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPO:	Fail
% RPO Limit:	25%

Enter Duplicate Sample IDs if other than LCSD/CSID in the space below:
 92523254004
 92523254040DUP

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Send results to: prep@pac.analytical-services.com 3/11/21

LAM3/11/21

3/11/21
LAL

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Sample Collection Date:	Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample MS I.D.:	Sample MS I.D.:		
Sample MS I.D.:	Sample MS I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MSD (mL):		
Spike Volume Used in MSD (mL):	MS Aliquot (L, g, F):		
MS Target Conc (pCi/L, g, F):	MSD Aliquot (L, g, F):		
MSO Target Conc (pCi/L, g, F):	MS Spike Uncertainty (Calculated):		
MSD Spike Uncertainty (Calculated):	MSD Spike Uncertainty (Calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Result:		
Sample Matrix Spike Result:	Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:		
MS Numerical Performance Indicator:	MS Percent Recovery:		
MSO Percent Recovery:	MS Status vs Numerical Indicator:		
MS Status vs Numerical Indicator:	MS Status vs Recovery:		
MSD Status vs Recovery:	MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:		

Matrix Spikes/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	Sample MS I.D.:		
Sample MS I.D.:	Sample MS I.D.:		
Sample Matrix Spike Result:	Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:		
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:		
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPO:		
% RPO Limit:	% RPO Limit:		

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields. Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/15/2021
Worklist: 59052
Matrix: DW



Method Blank Assessment	
MB Sample ID	Z108378
MB Concentration	0.059
MS Counting Uncertainty	0.107
MB MDC	0.246
MB Numerical Performance Indicator	1.08
MB Status vs Numerical Indicator	N/A
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment		LCSU (Y or N)?	Y
Count Date:	3/15/2021	LCS059052	2/15/2021
Spike ID:	19-033	LCS059052	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	LCS059052	24.039
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.504		0.520
Target Conc. (pCi/L, g, F):	4.766		4.624
Uncertainty (Calculated):	0.057		0.055
Result (pCi/L, g, F):	4.609		4.447
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.481		0.463
Numerical Performance Indicator:	-0.63		-0.74
Percent Recovery:	96.71%		98.18%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limit:	125%		125%
Lower % Recovery Limit:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS059052
Duplicate Sample I.D.:	LCS059052
Sample Result (pCi/L, g, F):	4.609
Sample Duplicate Result (pCi/L, g, F):	0.481
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.447
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.463
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.476
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.59%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (Calculated):			
MSD Spike Uncertainty (Calculated):			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limit:			
MS/MSD Lower % Recovery Limit:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

MS/MSD
LCS059052

Quality Control Sample Performance Assessment



ALWAYS! Must Manually Enter All Fields Highlighted in Yellow.

Test: Riv-228
Analyst: LAL
Date: 3/5/2021
Worklist: 99052
Matrix: CW

Method Blank Assessment	MB Sample ID: 2108378
MB Concentration:	0.059
MB Counting Uncertainty:	0.107
MB MDC:	0.246
MB Numerical Performance Indicator:	1.08
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

LCSD ID or N1?	N
LCSD09052	LCSD09052
Count Date:	3/15/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.504
Target Conc. (pCi/L, g, F):	4.756
Uncertainty (Calculated):	0.067
Result (pCi, g, F):	4.609
LCSD/CSO Counting Uncertainty (pCi/L, g, F):	0.481
Numerical Performance Indicator:	-0.63
Percent Recovery:	96.71%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	Sample ID: 92523254020	Enter Duplicate sample IDs if other than LCSD/CSO in the space below: 92523254020 92523254020UP
Duplicate Sample ID:	92523254020UP	
Sample Result (pCi/L, g, F):	0.410	
Sample Duplicate Result (pCi/L, g, F):	0.172	
Sample Duplicate Result (pCi/L, g, F):	0.371	
Sample Duplicate Result (pCi/L, g, F):	0.176	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.311	
Duplicate RPD:	9.99%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Sample Matrix Spike Control Assessment	MSMSD 1	MSMSD 2
Sample Collection Date: Sample ID: Sample MS ID: Sample MSD ID: Spike ID: MSMSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MSMSD Upper % Recovery Limits: MSMSD Lower % Recovery Limits:		

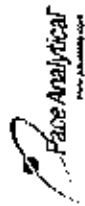
Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample ID: Sample MS ID: Sample MSD ID: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:		
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Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

171-5118-121
171-5118-121

Quality Control Sample Performance Assessment



Analyst must manually enter all fields highlighted in yellow.

Test: Ra-226
Analyst: LAL
Date: 3/6/2021
Worksheet: 59076
Matrix: DW

Method Blank Assessment

MB Sample ID	2108906
MB Concentration:	0.016
MB Counting Uncertainty:	0.061
MB MDC:	0.127
MB Numerical Performance Indicator:	0.51
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

Count Date:	LCS ID or N?	Y
3/9/2021	LCS59076	3952021
19-033		19-033
24-039		24-039
0-10		0-10
0-515		0-504
4-670		4-770
0-058		0-057
4-924		4-588
0-322		0-307
0-92		-1-34
103-30%		95-54%
Pass		N/A
Pass		Pass
125%		125%
75%		75%

Duplicate Sample Assessment

Sample ID:	Duplicate Sample ID:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
LCS59076	LCS59076	
LCS069076	LCS069076	
0-322	0-322	
4-588	4-588	
0-307	0-307	
1-175	1-175	
7-80%	7-80%	
N/A	N/A	
Pass	Pass	
25%	25%	

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
2/12/2021	92521567011	
Sample MS I.D.	92521567017	
Sample MSD I.D.	92521567018	
Spike I.D.	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL)	24.040	
Spike Volume Used in MS (mL)	0.20	
MS Aliquot (L, g, F)	0.509	
MS Target Conc (pCi/L, g, F)	9.441	
MSD Aliquot (L, g, F)	0.516	
MSD Target Conc (pCi/L, g, F)	9.321	
MS Spike Uncertainty (calculated)	0.113	
MSD Spike Uncertainty (calculated)	0.112	
Sample Result	0.275	
Sample Result Counting Uncertainty (pCi/L, g, F)	0.091	
Sample Matrix Spike Result	9.592	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F)	0.420	
Sample Matrix Spike Duplicate Result	8.892	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F)	0.389	
MS Numerical Performance Indicator	-0.549	
MSD Numerical Performance Indicator	-3.620	
MS Percent Recovery	96.68%	
MSD Percent Recovery	91.79%	
MS Status vs Numerical Indicator	N/A	
MSD Status vs Numerical Indicator	N/A	
MS Status vs Recovery	Pass	
MSD Status vs Recovery	Pass	
MS/MSD Upper % Recovery Limits	125%	
MS/MSD Lower % Recovery Limits	75%	

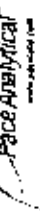
Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	Sample MS I.D.	Sample MSD I.D.
92521567011	92521567017	92521567018
Sample Matrix Spike Result	9.592	0.420
Sample Matrix Spike Duplicate Result	9.932	0.369
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F)	2.607	7.24%
Duplicate Numerical Performance Indicator	N/A	Pass
(Based on the Percent Recoveries) MS/MSD Duplicate RPD	Pass	25%
MS/MSD Duplicate Status vs Numerical Indicator		
MS/MSD Duplicate Status vs RPD		
% RPD Limit		

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 3/4/2021
 Worksheet: 58016
 Matrix: WWT

Method Blank Assessment

MB Sample ID	2106796
MB Concentration	0.111
MB 2 Sigma CSU	0.349
MB MDC	0.787
MB Numerical Performance Indicator	0.62
MB Status vs Numerical Indicator	Pass
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment

Count Date	LCSD (Y or N)?	Y
3/10/2021	LCSD59016	
21-003	21-003	21-003
38.521	38.521	38.521
0.10	0.10	0.10
0.807	0.807	0.809
4.773	4.773	4.783
0.234	0.234	0.233
3.834	4.846	4.846
0.936	1.115	1.115
-1.91	101.76%	101.76%
80.32%	N/A	N/A
Pass	Pass	Pass
1.35%	1.35%	1.35%
50%	50%	50%

Duplicate Sample Assessment

Sample ID	Sample ID
LCSD59016	LCSD59016
3.834	3.834
0.936	0.936
4.846	4.846
1.115	1.115
NO	NO
-1.353	-1.353
23.54%	23.54%
Pass	Pass
35%	35%

Sample Matrix Spike Control Assessment	MSMSD 1	MSMSD 2
Sample Collection Date: Sample ID: Sample MS I.D.: Sample MSD I.D.: Spike ID: MSMSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Sigma CSU (pCi/L, g, F): Sample Matrix Spike Residue: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery Limits: MSMSD Upper % Recovery Limit: MSMSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

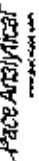
Sample ID: Sample MS I.D.: Sample MSD I.D.: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:	
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⚠ Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: R3-228
 Analyst: VAL
 Date: 3/6/2021
 Worksheet: 590559
 Matrix: WWT

Method Blank Assessment	
MB Sample ID	2104397
MB Concentration:	0.261
MB 2 Sigma CSU	0.354
MB MDC:	0.757
MB Numerical Performance Indicator:	1.44
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSS9059	LCSD59059
Count Date:	3/10/2021	3/10/2021
Spike ID:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.521	38.531
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.804	0.804
Target Conc. (pCi/L, g, F):	4.789	4.789
Uncertainty (Calculated):	0.235	0.235
Result (pCi/L, g, F):	4.785	3.738
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.084	0.878
Numerical Performance Indicator:	-0.01	-2.26
Percent Recovery:	99.93%	78.66%
Status vs Numerical Indicator:	Pass	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	LCSD (Y or N)?	
	LCSS9059	LCSD59059
Sample ID:	LCSS9059	LCSD59059
Duplicate Sample ID:	4.785	4.785
Sample Result (pCi/L, g, F):	1.084	1.084
Sample Duplicate Result (pCi/L, g, F):	3.738	3.738
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.878	0.878
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	1.472	24.57%
(Based on the LCSD/LCSD Percent Recovery) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate prediction is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample ID: Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result: Duplicate Numerical Performance Indicator: (Based on the Percent Recovery) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

*OK
3/10/21*



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 3/5/2021
Worklist: 59077
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2109307	
MB concentration:	0.013	
M/B 2 Sigma CSU:	0.299	
MB MDC:	0.696	
MB Numerical Performance Indicator:	0.09	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59077	LCSD59077
Count Date:	3/9/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.532	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.804	
Target Conc. (pCi/L, g, F):	4.794	
Uncertainty (Calculated):	0.235	
Result (pCi/L, g, F):	4.455	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.022	
Numerical Performance Indicator:	-0.63	
Percent Recovery:	92.93%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/12/2021	
Sample I.D.:	92521567011	
Sample MS I.D.:	92521567017	
Sample MSD I.D.:	92521567018	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.853	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.802	
MS Target Conc. (pCi/L, g, F):	9.694	
MSD Aliquot (L, g, F):	0.817	
MSD Target Conc. (pCi/L, g, F):	9.511	
MS Spike Uncertainty (calculated):	0.475	
MSD Spike Uncertainty (calculated):	0.466	
Sample Result:	0.091	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.322	
Sample Matrix Spike Result:	10.413	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066	
Sample Matrix Spike Duplicate Result:	8.770	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764	
MS Numerical Performance Indicator:	0.574	
MSD Numerical Performance Indicator:	-0.880	
MS Percent Recovery:	106.48%	
MSD Percent Recovery:	91.25%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

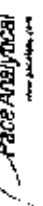
Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	92521567011	
Sample MS I.D.:	92521567017	
Sample MSD I.D.:	92521567018	
Sample Matrix Spike Result:	10.413	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066	
Sample Matrix Spike Duplicate Result:	8.770	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764	
Duplicate Numerical Performance Indicator:	1.186	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	15.40%	
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment



Test: Rb-228
Analyst: LAL
Date: 3/25/2021
Worksheet: 59398
Matrix: DW

Analyst Must Manually Enter Air Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	4120363
MB Concentration:	0.265
MUR Counting Uncertainty:	0.286
MB MDC:	0.590
MB Numerical Performance Indicator:	1.81
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

LCS/DY or N?	Y	
	LCS59396	LCS59398
Count Date:	3/24/2021	
Spike I.D.	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.639	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.506
Target Conc. (pCi/L, g, F):	4.804	4.747
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.932	5.803
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.735	0.652
Numerical Performance Indicator:	0.34	2.42
Percent Recovery:	102.86%	122.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS59396
Duplicate Sample I.D.:	LCS059396
Sample Result (pCi/L, g, F):	4.932
Sample Duplicate Result (pCi/L, g, F):	0.736
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	5.803
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.916
Duplicate Percent Recoveries:	17.41%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

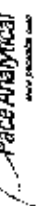
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Percent Recoveries:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten notes: "12/20/21" and "GRIFFIN" with a signature.

Quality Control Sample Performance Assessment



Analyt. Must Manually Enter All Fields Highlighted in Yellow

Test: Re-226
Analyst: LAL
Date: 3/25/2021
Worklist: 59396
Matrix: DW

Method Blank Assessment	
MB Sample ID	2120869
MB Concentration:	0.265
MB Counting Uncertainty:	0.286
MB MDC:	0.590
MB Numerical Performance Indicator:	1.81
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	3/25/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/L):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.509
Target Conc. (pCi/L, B, F):	4.804
Uncertainty (Calculated):	0.058
Result (pCi/L, B, F):	4.932
LC50/CSD Counting Uncertainty (pCi/L, B, F):	0.736
Numerical Performance Indicator:	0.34
Percent Recovery:	102.86%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limit:	125%
Lower % Recovery Limit:	75%

Duplicate Sample Assessment	
Sample I.D.:	92526935001
Duplicate Sample I.D.:	92526935001DUP
Sample Result (pCi/L, g, F):	-0.103
Sample Result Counting Uncertainty (pCi/L, g, F):	0.156
Sample Duplicate Result (pCi/L, g, F):	0.047
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.133
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-1.435
Duplicate RPD:	-544.87%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

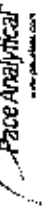
Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	MS/MSD 1
Sample MS I.D.:	
Sample I.D.:	MS/MSD 2
MS/MSD Expiry Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limit:	
MS/MSD Lower % Recovery Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MS I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

10/10/21
LAL

LAM3126121

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 3/30/2021
 Worksheet: 59397
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2120874
MB Concentration:	0.143
MB 2 Sigma CSU:	0.352
MB MDC:	0.785
MB Numerical Performance Indicator:	0.80
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS ID or I/P	Y
LCS59397	LCS59397
Count Date:	4/12/2021
Spikes I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	36.242
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.617
Target Conc. (pCi/L, g, F):	4.683
Uncertainty (Calculated):	0.228
Result (pCi/L, g, F):	4.306
LCS/LCS 2 Sigma CSU (pCi/L, g, F):	1.014
Numerical Performance Indicator:	-0.61
Percent Recovery:	93.05%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limit:	135%
Lower % Recovery Limit:	50%

Duplicate Sample Assessment	
Sample I.D.:	LCS59397
Duplicate Sample I.D.:	4-306
Sample Result (pCi/L, g, F):	1.014
Sample Duplicate Result (pCi/L, g, F):	4.750
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.092
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.583
Duplicate Percent Recoveries Duplicate RPD:	8.61%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	38%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample ID:	
Sample MS ID:	
Sample MSD I.D.:	
Spikes I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limit:	
MS/MSD Lower % Recovery Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS ID:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Percent Recoveries Duplicate RPD:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

March 31, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Dear Joju Abraham:

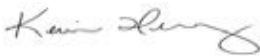
Enclosed are the analytical results for sample(s) received by the laboratory between February 19, 2021 and March 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526941001	FBL030821	Water	03/08/21 16:32	03/10/21 08:47
92526941002	EQBL030821	Water	03/08/21 16:42	03/10/21 08:47
92526941003	BGWC-36D	Water	03/08/21 13:05	03/10/21 08:47
92526941004	BGWC-43D	Water	03/08/21 15:24	03/10/21 08:47
92526941005	BGWC-30	Water	03/08/21 11:50	03/10/21 08:47
92526941006	BGWC-38D	Water	03/09/21 11:12	03/10/21 08:47
92526941007	FBL030921	Water	03/09/21 12:24	03/10/21 08:47
92526941008	EQBL030921	Water	03/09/21 16:10	03/10/21 08:47
92523272001	BGWA-2	Water	02/16/21 14:18	02/19/21 16:08
92523272002	BGWA-29	Water	02/16/21 12:10	02/19/21 16:08
92523272003	BGWC-8	Water	02/16/21 14:26	02/19/21 16:08
92523272004	BGWA-33	Water	02/19/21 09:42	02/19/21 16:08
92523272005	BGWC-12	Water	02/19/21 11:16	02/19/21 16:08
92523272006	BGWC-7	Water	02/18/21 10:30	02/19/21 16:08
92523272007	BGWC-10	Water	02/18/21 16:26	02/19/21 16:08
92523272008	BGWC-14A	Water	02/18/21 11:10	02/19/21 16:08
92523272009	BGWC-16	Water	02/18/21 12:33	02/19/21 16:08
92523277001	BGWA-47D	Water	02/17/21 16:31	02/19/21 16:08
92523277002	BGWA-48D	Water	02/17/21 13:27	02/19/21 16:08
92523277003	BGWC-9	Water	02/17/21 15:58	02/19/21 16:08
92523277004	FBL021721	Water	02/17/21 16:40	02/19/21 16:08
92523277005	EQBL021721	Water	02/17/21 17:14	02/19/21 16:08
92523277006	DUP-1	Water	02/16/21 00:00	02/19/21 16:08
92523277007	FBL021621	Water	02/16/21 15:25	02/19/21 16:08
92523277008	BGWC-17	Water	02/18/21 13:40	02/19/21 16:08
92523277009	BGWC-18	Water	02/18/21 15:03	02/19/21 16:08
92523277010	BGWC-19	Water	02/18/21 16:28	02/19/21 16:08
92523277011	BGWC-20	Water	02/18/21 15:38	02/19/21 16:08
92523277012	BGWA-6	Water	02/18/21 14:11	02/19/21 16:08
92523277013	BGWC-44D	Water	02/18/21 11:07	02/19/21 16:08
92523277014	DUP-2	Water	02/18/21 00:00	02/19/21 16:08
92523277015	FBL021821	Water	02/18/21 16:40	02/19/21 16:08
92523277016	EQBL021821	Water	02/18/21 16:34	02/19/21 16:08
92523277017	BGWC-21	Water	02/19/21 12:23	02/19/21 16:08
92523277018	BGWC-22	Water	02/19/21 13:25	02/19/21 16:08
92523277019	BGWC-23	Water	02/19/21 13:46	02/19/21 16:08
92523277020	BGWC-24	Water	02/19/21 12:21	02/19/21 16:08

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SAMPLE SUMMARY

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92523277021	BGWC-34D	Water	02/19/21 10:09	02/19/21 16:08
92523277022	FBL021921	Water	02/19/21 14:20	02/19/21 16:08
92523277023	EQBL021921	Water	02/19/21 14:25	02/19/21 16:08
92523277024	BGWC-25	Water	02/23/21 10:39	02/25/21 09:37
92523277025	BGWC-32	Water	02/23/21 11:46	02/25/21 09:37
92523277026	DUP-4	Water	02/23/21 00:00	02/25/21 09:37
92523277027	FBL022321	Water	02/23/21 14:24	02/25/21 09:37
92523277028	EQBL022321	Water	02/23/21 14:30	02/25/21 09:37
92523277029	BGWC-51	Water	02/23/21 12:54	02/25/21 09:37
92523277030	BGWC-52	Water	02/23/21 11:04	02/25/21 09:37
92523277031	BGWC-35D	Water	02/22/21 15:01	02/25/21 09:37
92523277032	BGWC-37D	Water	02/22/21 14:01	02/25/21 09:37
92523277033	BGWC-39	Water	02/22/21 10:45	02/25/21 09:37
92523277034	BGWC-40	Water	02/22/21 12:24	02/25/21 09:37
92523277035	BGWC-41D	Water	02/22/21 12:44	02/25/21 09:37
92523277036	BGWC-42D	Water	02/22/21 12:02	02/25/21 09:37
92523277037	BGWC-31	Water	02/22/21 14:40	02/25/21 09:37
92523277038	DUP-3	Water	02/22/21 10:00	02/25/21 09:37
92523277039	FBL022221	Water	02/22/21 16:11	02/25/21 09:37
92523277040	EQBL022221	Water	02/22/21 16:14	02/25/21 09:37

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92526941001	FBL030821	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92526941002	EQBL030821	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92526941003	BGWC-36D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92526941004	BGWC-43D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92526941005	BGWC-30	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92526941006	BGWC-38D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92526941007	FBL030921	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92526941008	EQBL030921	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272001	BGWA-2	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272002	BGWA-29	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272003	BGWC-8	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272004	BGWA-33	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272005	BGWC-12	EPA 6020B	CW1	12

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272006	BGWC-7	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272007	BGWC-10	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272008	BGWC-14A	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523272009	BGWC-16	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277001	BGWA-47D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277002	BGWA-48D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277003	BGWC-9	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277004	FBL021721	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277005	EQBL021721	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277006	DUP-1	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277007	FBL021621	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277008	BGWC-17	EPA 6020B	CW1	12
		EPA 7470A	VB	1

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92523277009	BGWC-18	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277010	BGWC-19	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277011	BGWC-20	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277012	BGWA-6	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277013	BGWC-44D	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277014	DUP-2	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277015	FBL021821	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277016	EQBL021821	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277017	BGWC-21	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277018	BGWC-22	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277019	BGWC-23	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92523277020	BGWC-24	EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92523277021	BGWC-34D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277022	FBL021921	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277023	EQBL021921	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277024	BGWC-25	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92523277025	BGWC-32	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92523277026	DUP-4	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92523277027	FBL022321	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277028	EQBL022321	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277029	BGWC-51	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277030	BGWC-52	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92523277031	BGWC-35D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92523277032	BGWC-37D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92523277033	BGWC-39	EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN ASH POND SCAN
 Pace Project No.: 92526941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92523277034	BGWC-40	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
		EPA 6020B	CW1	12
92523277035	BGWC-41D	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
		EPA 6020B	CW1	12
92523277036	BGWC-42D	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
		EPA 6020B	CW1	12
92523277037	BGWC-31	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
92523277038	DUP-3	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
92523277039	FBL022221	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12
92523277040	EQBL022221	EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
		EPA 6020B	CW1	12

PASI-A = Pace Analytical Services - Asheville
 PASI-C = Pace Analytical Services - Charlotte
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92526941001	FBL030821					
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	03/19/21 19:40	
92526941002	EQBL030821					
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	03/19/21 20:03	
92526941003	BGWC-36D					
	Performed by	CUSTOME			03/22/21 11:51	
		R				
	pH	7.12	Std. Units		03/22/21 11:51	
EPA 6020B	Antimony	0.00096J	mg/L	0.0030	03/19/21 20:09	
EPA 6020B	Arsenic	0.00096J	mg/L	0.0050	03/19/21 20:09	
EPA 6020B	Barium	0.073	mg/L	0.0050	03/19/21 20:09	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	03/19/21 20:09	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/19/21 20:09	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	03/19/21 20:09	
EPA 6020B	Molybdenum	0.0083J	mg/L	0.010	03/19/21 20:09	
EPA 6020B	Selenium	0.011	mg/L	0.0050	03/19/21 20:09	
EPA 6020B	Thallium	0.00020J	mg/L	0.0010	03/19/21 20:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	03/17/21 09:15	
92526941004	BGWC-43D					
	Performed by	CUSTOME			03/22/21 11:51	
		R				
	pH	7.08	Std. Units		03/22/21 11:51	
EPA 6020B	Antimony	0.00058J	mg/L	0.0030	03/19/21 20:14	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/19/21 20:14	
EPA 6020B	Barium	0.068	mg/L	0.0050	03/19/21 20:14	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	03/19/21 20:14	
EPA 6020B	Cobalt	0.0043J	mg/L	0.0050	03/19/21 20:14	
EPA 6020B	Lithium	0.024J	mg/L	0.030	03/19/21 20:14	
EPA 6020B	Molybdenum	0.20	mg/L	0.010	03/19/21 20:14	
EPA 6020B	Thallium	0.0015	mg/L	0.0010	03/19/21 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.90	mg/L	0.10	03/16/21 14:49	
92526941005	BGWC-30					
	Performed by	CUSTOME			03/22/21 11:51	
		R				
	pH	7.44	Std. Units		03/22/21 11:51	
EPA 6020B	Barium	0.074	mg/L	0.0050	03/19/21 20:20	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	03/19/21 20:20	
EPA 6020B	Lead	0.00018J	mg/L	0.0010	03/19/21 20:20	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/19/21 20:20	
EPA 6020B	Molybdenum	0.0031J	mg/L	0.010	03/19/21 20:20	
EPA 6020B	Selenium	0.0048J	mg/L	0.0050	03/19/21 20:20	
92526941006	BGWC-38D					
	Performed by	CUSTOME			03/22/21 11:51	
		R				
	pH	6.97	Std. Units		03/22/21 11:51	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/19/21 20:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92526941006	BGWC-38D					
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	03/19/21 20:37	
EPA 6020B	Barium	0.096	mg/L	0.0050	03/19/21 20:37	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	03/19/21 20:37	
EPA 6020B	Lithium	0.011J	mg/L	0.030	03/19/21 20:37	
EPA 6020B	Molybdenum	0.13	mg/L	0.010	03/19/21 20:37	
EPA 6020B	Selenium	0.0050	mg/L	0.0050	03/19/21 20:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.67	mg/L	0.10	03/16/21 15:51	
92526941008	EQBL030921					
EPA 6020B	Lead	0.00072J	mg/L	0.0010	03/19/21 20:49	
92523272001	BGWA-2					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.75	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.15	mg/L	0.0050	02/26/21 18:18	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	02/26/21 18:18	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/26/21 18:18	
EPA 6020B	Thallium	0.00020J	mg/L	0.0010	02/26/21 18:18	
92523272002	BGWA-29					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	8.00	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/26/21 18:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	02/26/21 18:41	
EPA 6020B	Chromium	0.00071J	mg/L	0.0050	02/26/21 18:41	
EPA 6020B	Lead	0.000042J	mg/L	0.0010	02/26/21 18:41	
92523272003	BGWC-8					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.69	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00046J	mg/L	0.0030	02/26/21 18:47	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/26/21 18:47	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	02/26/21 18:47	
EPA 6020B	Lead	0.00010J	mg/L	0.0010	02/26/21 18:47	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/26/21 18:47	
92523272004	BGWA-33					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.73	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	02/26/21 18:53	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/26/21 18:53	
EPA 6020B	Chromium	0.00077J	mg/L	0.0050	02/26/21 18:53	
EPA 6020B	Molybdenum	0.029	mg/L	0.010	02/26/21 18:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	02/23/21 17:40	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92523272005	BGWC-12					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.0	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	02/26/21 18:58	
EPA 6020B	Barium	0.043	mg/L	0.0050	02/26/21 18:58	
EPA 6020B	Beryllium	0.000046J	mg/L	0.00050	02/26/21 18:58	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	02/26/21 18:58	
EPA 6020B	Lead	0.000087J	mg/L	0.0010	02/26/21 18:58	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/26/21 18:58	
92523272006	BGWC-7					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.88	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/26/21 19:16	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/26/21 19:16	
EPA 6020B	Cobalt	0.00074J	mg/L	0.0050	02/26/21 19:16	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	02/26/21 19:16	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	02/26/21 19:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/23/21 18:38	
92523272007	BGWC-10					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.54	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0054	mg/L	0.0050	02/26/21 19:21	
EPA 6020B	Barium	0.039	mg/L	0.0050	02/26/21 19:21	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/26/21 19:21	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	02/26/21 19:21	
92523272008	BGWC-14A					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.14	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.036	mg/L	0.0050	02/26/21 19:27	
EPA 6020B	Chromium	0.026	mg/L	0.0050	02/26/21 19:27	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/26/21 19:27	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	02/26/21 19:27	
EPA 6020B	Thallium	0.00077J	mg/L	0.0010	02/26/21 19:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/23/21 19:07	
92523272009	BGWC-16					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.66	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/26/21 19:33	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/26/21 19:33	
EPA 6020B	Cadmium	0.0018	mg/L	0.00050	02/26/21 19:33	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	02/26/21 19:33	
EPA 6020B	Cobalt	0.0088	mg/L	0.0050	02/26/21 19:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523272009	BGWC-16					
EPA 6020B	Lead	0.00013J	mg/L	0.0010	02/26/21 19:33	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	02/26/21 19:33	
EPA 6020B	Thallium	0.00023J	mg/L	0.0010	02/26/21 19:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/23/21 19:22	
92523277001	BGWA-47D					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	6.89	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/01/21 15:12	
EPA 6020B	Barium	0.060	mg/L	0.0050	03/01/21 15:12	
EPA 6020B	Chromium	0.00099J	mg/L	0.0050	03/01/21 15:12	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	03/01/21 15:12	
92523277002	BGWA-48D					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.21	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/02/21 15:32	
EPA 6020B	Barium	0.064	mg/L	0.0050	03/01/21 15:35	
EPA 6020B	Chromium	0.00069J	mg/L	0.0050	03/01/21 15:35	
EPA 6020B	Lead	0.00026J	mg/L	0.0010	03/01/21 15:35	
EPA 6020B	Lithium	0.00099J	mg/L	0.030	03/01/21 15:35	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	03/01/21 15:35	
92523277003	BGWC-9					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.43	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00075J	mg/L	0.0030	03/01/21 15:40	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	03/01/21 15:40	
EPA 6020B	Barium	0.030	mg/L	0.0050	03/01/21 15:40	
EPA 6020B	Lead	0.000075J	mg/L	0.0010	03/01/21 15:40	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	03/01/21 15:40	
EPA 6020B	Molybdenum	0.0033J	mg/L	0.010	03/01/21 15:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/23/21 21:32	
92523277004	FBL021721					
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	03/01/21 15:46	
EPA 6020B	Barium	0.0022J	mg/L	0.0050	03/01/21 15:46	
92523277005	EQBL021721					
EPA 6020B	Barium	0.0022J	mg/L	0.0050	03/01/21 15:52	
92523277006	DUP-1					
EPA 6020B	Arsenic	0.00091J	mg/L	0.0050	03/01/21 16:51	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/01/21 16:51	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	03/01/21 16:51	
EPA 6020B	Lead	0.000094J	mg/L	0.0010	03/01/21 16:51	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	03/01/21 16:51	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523277007	FBL021621					
EPA 6020B	Barium	0.0021J	mg/L	0.0050	03/01/21 16:57	
92523277008	BGWC-17					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.33	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/01/21 17:03	
EPA 6020B	Beryllium	0.000065J	mg/L	0.00050	03/01/21 17:03	
EPA 7470A	Mercury	0.00017J	mg/L	0.00050	02/25/21 10:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/23/21 22:44	
92523277009	BGWC-18					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.48	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/01/21 17:09	
EPA 6020B	Beryllium	0.000068J	mg/L	0.00050	03/01/21 17:09	
92523277010	BGWC-19					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.66	Std. Units		03/01/21 07:52	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/01/21 17:14	
EPA 6020B	Beryllium	0.000052J	mg/L	0.00050	03/01/21 17:14	
92523277011	BGWC-20					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.35	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	03/01/21 17:20	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/01/21 17:20	
EPA 6020B	Chromium	0.00078J	mg/L	0.0050	03/01/21 17:20	
EPA 6020B	Lithium	0.041	mg/L	0.030	03/01/21 17:20	
EPA 6020B	Molybdenum	0.028	mg/L	0.010	03/01/21 17:20	
92523277012	BGWA-6					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.34	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	03/01/21 17:26	
EPA 6020B	Barium	0.012	mg/L	0.0050	03/01/21 17:26	
EPA 6020B	Lead	0.000057J	mg/L	0.0010	03/01/21 17:26	
92523277013	BGWC-44D					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.64	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0090	mg/L	0.0030	03/02/21 15:37	
EPA 6020B	Arsenic	0.0078	mg/L	0.0050	03/01/21 17:31	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/01/21 17:31	
EPA 6020B	Chromium	0.00093J	mg/L	0.0050	03/01/21 17:31	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92523277013	BGWC-44D					
EPA 6020B	Lead	0.00017J	mg/L	0.0010	03/01/21 17:31	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	03/01/21 17:31	
EPA 6020B	Molybdenum	0.0062J	mg/L	0.010	03/01/21 17:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/24/21 00:54	
92523277014	DUP-2					
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	03/01/21 17:37	
EPA 6020B	Barium	0.040	mg/L	0.0050	03/01/21 17:37	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	03/01/21 17:37	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	03/01/21 17:37	
EPA 6020B	Thallium	0.00082J	mg/L	0.0010	03/01/21 17:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.10	02/24/21 01:09	
92523277015	FBL021821					
EPA 6020B	Barium	0.0022J	mg/L	0.0050	03/01/21 17:43	
92523277016	EQBL021821					
EPA 6020B	Barium	0.0021J	mg/L	0.0050	03/01/21 18:00	
92523277017	BGWC-21					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.64	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.00079J	mg/L	0.0050	03/01/21 18:06	
EPA 6020B	Barium	0.030	mg/L	0.0050	03/01/21 18:06	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	03/01/21 18:06	
EPA 6020B	Lead	0.000087J	mg/L	0.0010	03/01/21 18:06	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	03/01/21 18:06	
92523277018	BGWC-22					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	6.90	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00028J	mg/L	0.0030	03/01/21 18:12	
EPA 6020B	Arsenic	0.0039J	mg/L	0.0050	03/01/21 18:12	
EPA 6020B	Barium	0.086	mg/L	0.0050	03/01/21 18:12	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/01/21 18:12	
EPA 6020B	Cadmium	0.00038J	mg/L	0.00050	03/01/21 18:12	
EPA 6020B	Cobalt	0.032	mg/L	0.0050	03/01/21 18:12	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/01/21 18:12	
EPA 6020B	Lithium	0.035	mg/L	0.030	03/01/21 18:12	
EPA 6020B	Molybdenum	0.046	mg/L	0.010	03/01/21 18:12	
EPA 6020B	Thallium	0.00089J	mg/L	0.0010	03/01/21 18:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/24/21 02:06	
92523277019	BGWC-23					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.05	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	03/01/21 18:17	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523277019	BGWC-23					
EPA 6020B	Arsenic	0.0049J	mg/L	0.0050	03/01/21 18:17	
EPA 6020B	Barium	0.12	mg/L	0.0050	03/01/21 18:17	
EPA 6020B	Cobalt	0.00044J	mg/L	0.0050	03/01/21 18:17	
EPA 6020B	Lithium	0.040	mg/L	0.030	03/01/21 18:17	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	03/01/21 18:17	
EPA 6020B	Thallium	0.00039J	mg/L	0.0010	03/01/21 18:17	
92523277020	BGWC-24					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.66	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00036J	mg/L	0.0030	03/01/21 18:23	
EPA 6020B	Arsenic	0.0054	mg/L	0.0050	03/01/21 18:23	
EPA 6020B	Barium	0.081	mg/L	0.0050	03/01/21 18:23	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/01/21 18:23	
EPA 6020B	Cadmium	0.0068	mg/L	0.00050	03/01/21 18:23	
EPA 6020B	Cobalt	0.0042J	mg/L	0.0050	03/01/21 18:23	
EPA 6020B	Lead	0.000043J	mg/L	0.0010	03/01/21 18:23	
EPA 6020B	Lithium	0.0086J	mg/L	0.030	03/01/21 18:23	
EPA 6020B	Selenium	0.0065	mg/L	0.0050	03/01/21 18:23	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	03/01/21 18:23	
EPA 7470A	Mercury	0.0033	mg/L	0.00050	02/25/21 11:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/24/21 03:04	
92523277021	BGWC-34D					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.26	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.015	mg/L	0.0050	02/26/21 19:38	
EPA 6020B	Barium	0.053	mg/L	0.0050	02/26/21 19:38	
EPA 6020B	Cobalt	0.00057J	mg/L	0.0050	02/26/21 19:38	
EPA 6020B	Molybdenum	0.00090J	mg/L	0.010	02/26/21 19:38	
92523277022	FBL021921					
EPA 6020B	Barium	0.0020J	mg/L	0.0050	02/26/21 19:44	
92523277023	EQBL021921					
EPA 6020B	Barium	0.0020J	mg/L	0.0050	02/26/21 19:50	
92523277024	BGWC-25					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.44	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	03/03/21 15:55	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/03/21 15:55	
EPA 6020B	Lead	0.000074J	mg/L	0.0010	03/03/21 15:55	
92523277025	BGWC-32					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.08	Std. Units		03/01/21 07:52	

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523277025	BGWC-32					
EPA 6020B	Antimony	0.00036J	mg/L	0.0030	03/03/21 16:47	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	03/03/21 16:47	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/03/21 16:47	
EPA 6020B	Cobalt	0.0062	mg/L	0.0050	03/03/21 16:47	
EPA 6020B	Lead	0.000072J	mg/L	0.0010	03/03/21 16:47	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	03/03/21 16:47	
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	03/03/21 16:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/28/21 06:56	
92523277026	DUP-4					
EPA 6020B	Arsenic	0.0041J	mg/L	0.0050	03/03/21 16:53	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/03/21 16:53	
EPA 6020B	Lead	0.000095J	mg/L	0.0010	03/03/21 16:53	
92523277029	BGWC-51					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.71	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0048J	mg/L	0.0050	03/03/21 15:33	
EPA 6020B	Barium	0.054	mg/L	0.0050	03/03/21 15:33	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/03/21 15:33	
EPA 6020B	Cadmium	0.00043J	mg/L	0.00050	03/03/21 15:33	
EPA 6020B	Chromium	0.00060J	mg/L	0.0050	03/03/21 15:33	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	03/03/21 15:33	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	03/03/21 15:33	
EPA 6020B	Selenium	0.013	mg/L	0.0050	03/03/21 15:33	
EPA 7470A	Mercury	0.0033	mg/L	0.00020	03/02/21 10:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/27/21 00:00	
92523277030	BGWC-52					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	6.95	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00053J	mg/L	0.0030	03/03/21 15:38	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	03/03/21 15:38	
EPA 6020B	Barium	0.095	mg/L	0.0050	03/03/21 15:38	
EPA 6020B	Cobalt	0.0033J	mg/L	0.0050	03/03/21 15:38	
EPA 6020B	Lead	0.00010J	mg/L	0.0010	03/03/21 15:38	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	03/03/21 15:38	
EPA 6020B	Molybdenum	0.0039J	mg/L	0.010	03/03/21 15:38	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	03/03/21 15:38	
EPA 6020B	Thallium	0.00023J	mg/L	0.0010	03/03/21 15:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	02/27/21 00:00	
92523277031	BGWC-35D					
	Performed by	CUSTOME			03/01/21 07:52	
		R				
	pH	7.16	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00066J	mg/L	0.0030	03/03/21 16:58	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	03/03/21 16:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92523277031	BGWC-35D					
EPA 6020B	Barium	0.091	mg/L	0.0050	03/03/21 16:58	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/03/21 16:58	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	03/03/21 16:58	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/03/21 16:58	
EPA 6020B	Molybdenum	0.035	mg/L	0.010	03/03/21 16:58	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	03/03/21 16:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/28/21 07:25	
92523277032	BGWC-37D					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.49	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.00041J	mg/L	0.0030	03/03/21 17:04	
EPA 6020B	Arsenic	0.019	mg/L	0.0050	03/03/21 17:04	
EPA 6020B	Barium	0.090	mg/L	0.0050	03/03/21 17:04	
EPA 6020B	Cobalt	0.00070J	mg/L	0.0050	03/03/21 17:04	
EPA 6020B	Lead	0.000082J	mg/L	0.0010	03/03/21 17:04	
EPA 6020B	Lithium	0.0092J	mg/L	0.030	03/03/21 17:04	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	03/03/21 17:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/27/21 23:56	
92523277033	BGWC-39					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	6.87	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	03/03/21 17:10	
EPA 6020B	Barium	0.054	mg/L	0.0050	03/03/21 17:10	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	03/03/21 17:10	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	03/03/21 17:10	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	03/03/21 17:10	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	03/03/21 17:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	02/28/21 00:11	
92523277034	BGWC-40					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.08	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	03/03/21 17:16	
EPA 6020B	Barium	0.061	mg/L	0.0050	03/03/21 17:16	
EPA 6020B	Cobalt	0.00060J	mg/L	0.0050	03/03/21 17:16	
EPA 6020B	Lead	0.00014J	mg/L	0.0010	03/03/21 17:16	
EPA 6020B	Selenium	0.0094	mg/L	0.0050	03/03/21 17:16	
92523277035	BGWC-41D					
	Performed by	CUSTOMER			03/01/21 07:52	
	pH	7.48	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	03/03/21 17:21	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/03/21 17:21	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	03/03/21 17:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92523277035	BGWC-41D					
EPA 6020B	Lithium	0.0017J	mg/L	0.030	03/03/21 17:21	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/03/21 17:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.099J	mg/L	0.10	02/28/21 00:40	
92523277036	BGWC-42D					
	Performed by	CUSTOME R			03/01/21 07:52	
	pH	7.50	Std. Units		03/01/21 07:52	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	03/03/21 17:27	
EPA 6020B	Arsenic	0.0068	mg/L	0.0050	03/03/21 17:27	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/03/21 17:27	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	03/03/21 17:27	
EPA 6020B	Lead	0.000041J	mg/L	0.0010	03/03/21 17:27	
EPA 6020B	Molybdenum	0.0052J	mg/L	0.010	03/03/21 17:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.69	mg/L	0.10	03/03/21 05:07	
92523277037	BGWC-31					
	Performed by	CUSTOME R			03/01/21 07:52	
	pH	7.21	Std. Units		03/01/21 07:52	
EPA 6020B	Arsenic	0.0049J	mg/L	0.0050	03/03/21 17:33	
EPA 6020B	Barium	0.041	mg/L	0.0050	03/03/21 17:33	
EPA 6020B	Lead	0.00045J	mg/L	0.0010	03/03/21 17:33	
92523277038	DUP-3					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	03/03/21 18:01	
EPA 6020B	Arsenic	0.0066	mg/L	0.0050	03/03/21 18:01	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/03/21 18:01	
EPA 6020B	Lead	0.000048J	mg/L	0.0010	03/03/21 18:01	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	03/03/21 18:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.67	mg/L	0.10	03/03/21 05:36	
92523277039	FBL022221					
EPA 6020B	Barium	0.0021J	mg/L	0.0050	03/03/21 18:06	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL030821 Lab ID: 92526941001 Collected: 03/08/21 16:32 Received: 03/10/21 08:47 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 19:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 19:40	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 19:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 19:40	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 19:40	7440-43-9	
Chromium	0.00062J	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 19:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 19:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 19:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 19:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 19:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 19:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 19:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 14:45	03/17/21 10:30	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 08:15	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL030821		Lab ID: 92526941002		Collected: 03/08/21 16:42		Received: 03/10/21 08:47		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.0016J	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:03	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:03	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:03	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 14:45	03/17/21 10:32	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		03/17/21 08:59	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-36D		Lab ID: 92526941003		Collected: 03/08/21 13:05	Received: 03/10/21 08:47	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:51		
pH	7.12	Std. Units			1		03/22/21 11:51		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00096J	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:09	7440-36-0	
Arsenic	0.00096J	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:09	7440-38-2	
Barium	0.073	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:09	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:09	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:09	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:09	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:09	7439-93-2	
Molybdenum	0.0083J	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:09	7439-98-7	
Selenium	0.011	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:09	7782-49-2	
Thallium	0.00020J	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 14:45	03/17/21 10:35	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.14	mg/L	0.10	0.050	1		03/17/21 09:15	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-43D		Lab ID: 92526941004		Collected: 03/08/21 15:24		Received: 03/10/21 08:47		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:51		
pH	7.08	Std. Units			1		03/22/21 11:51		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00058J	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:14	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:14	7440-38-2	
Barium	0.068	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:14	7440-41-7	
Cadmium	0.00030J	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:14	7440-47-3	
Cobalt	0.0043J	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:14	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:14	7439-93-2	
Molybdenum	0.20	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:14	7782-49-2	
Thallium	0.0015	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/16/21 14:45	03/17/21 10:37	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.90	mg/L	0.10	0.050	1		03/16/21 14:49	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-30		Lab ID: 92526941005		Collected: 03/08/21 11:50		Received: 03/10/21 08:47		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:51		
pH	7.44	Std. Units			1		03/22/21 11:51		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:20	7440-38-2	
Barium	0.074	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:20	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:20	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:20	7440-48-4	
Lead	0.00018J	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:20	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:20	7439-93-2	
Molybdenum	0.0031J	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:20	7439-98-7	
Selenium	0.0048J	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:32	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		03/16/21 15:36	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-38D		Lab ID: 92526941006		Collected: 03/09/21 11:12	Received: 03/10/21 08:47	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/22/21 11:51		
pH	6.97	Std. Units			1		03/22/21 11:51		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00062J	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:37	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:37	7440-38-2	
Barium	0.096	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:37	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:37	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:37	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:37	7439-93-2	
Molybdenum	0.13	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:37	7439-98-7	
Selenium	0.0050	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:42	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.67	mg/L	0.10	0.050	1		03/16/21 15:51	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL030921		Lab ID: 92526941007		Collected: 03/09/21 12:24	Received: 03/10/21 08:47	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:43	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:43	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:43	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:43	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:43	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:43	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:43	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:43	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:43	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:43	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:43	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:43	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:44	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		03/16/21 16:07	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL030921		Lab ID: 92526941008		Collected: 03/09/21 16:10	Received: 03/10/21 08:47	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/19/21 12:10	03/19/21 20:49	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/19/21 12:10	03/19/21 20:49	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/19/21 12:10	03/19/21 20:49	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/19/21 12:10	03/19/21 20:49	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/21 12:10	03/19/21 20:49	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/19/21 12:10	03/19/21 20:49	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/19/21 12:10	03/19/21 20:49	7440-48-4		
Lead	0.00072J	mg/L	0.0010	0.000036	1	03/19/21 12:10	03/19/21 20:49	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/19/21 12:10	03/19/21 20:49	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/19/21 12:10	03/19/21 20:49	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/19/21 12:10	03/19/21 20:49	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/19/21 12:10	03/19/21 20:49	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/22/21 13:00	03/23/21 11:47	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		03/16/21 16:22	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWA-2		Lab ID: 92523272001		Collected: 02/16/21 14:18		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.75	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 18:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 18:18	7440-38-2	
Barium	0.15	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 18:18	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 18:18	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 18:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 18:18	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 18:18	7782-49-2	
Thallium	0.00020J	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 18:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:01	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 16:28	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWA-29		Lab ID: 92523272002		Collected: 02/16/21 12:10		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	8.00	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 18:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 18:41	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 18:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 18:41	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 18:41	7440-43-9	
Chromium	0.00071J	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 18:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 18:41	7440-48-4	
Lead	0.000042J	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 18:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 18:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 18:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 18:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 18:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:03	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 17:11	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-8		Lab ID: 92523272003		Collected: 02/16/21 14:26		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.69	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00046J	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 18:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 18:47	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 18:47	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 18:47	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 18:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 18:47	7440-48-4	
Lead	0.00010J	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 18:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 18:47	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 18:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 18:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:05	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 17:26	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWA-33		Lab ID: 92523272004		Collected: 02/19/21 09:42	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.73	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0011J	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 18:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 18:53	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 18:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 18:53	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 18:53	7440-43-9	
Chromium	0.00077J	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 18:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 18:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 18:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 18:53	7439-93-2	
Molybdenum	0.029	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 18:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 18:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 18:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:08	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.062J	mg/L	0.10	0.050	1		02/23/21 17:40	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-12		Lab ID: 92523272005		Collected: 02/19/21 11:16		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.0	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 18:58	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 18:58	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 18:58	7440-39-3	
Beryllium	0.000046J	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 18:58	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 18:58	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 18:58	7440-48-4	
Lead	0.000087J	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 18:58	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 18:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:10	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 18:24	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-7		Lab ID: 92523272006		Collected: 02/18/21 10:30	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.88	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:16	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:16	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:16	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:16	7440-47-3	
Cobalt	0.00074J	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:16	7439-92-1	
Lithium	0.0072J	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:16	7439-93-2	
Molybdenum	0.0098J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:12	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.13	mg/L	0.10	0.050	1		02/23/21 18:38	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-10 **Lab ID: 92523272007** Collected: 02/18/21 16:26 Received: 02/19/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.54	Std. Units			1		03/01/21 07:52		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:21	7440-36-0	
Arsenic	0.0054	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:21	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:21	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:21	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:21	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:21	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:15	7439-97-6	
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 18:53	16984-48-8	
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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-14A		Lab ID: 92523272008		Collected: 02/18/21 11:10	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.14	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:27	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:27	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:27	7440-43-9	
Chromium	0.026	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:27	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:27	7439-93-2	
Molybdenum	0.0045J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:27	7782-49-2	
Thallium	0.00077J	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:17	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.055J	mg/L	0.10	0.050	1		02/23/21 19:07	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-16		Lab ID: 92523272009		Collected: 02/18/21 12:33		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.66	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:33	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:33	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:33	7440-41-7	
Cadmium	0.0018	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:33	7440-43-9	
Chromium	0.0019J	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:33	7440-47-3	
Cobalt	0.0088	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:33	7440-48-4	
Lead	0.00013J	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:33	7439-98-7	
Selenium	0.0017J	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:33	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:24	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.064J	mg/L	0.10	0.050	1		02/23/21 19:22	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWA-47D		Lab ID: 92523277001		Collected: 02/17/21 16:31		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.89	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 15:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 15:12	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 15:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 15:12	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 15:12	7440-43-9	
Chromium	0.00099J	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 15:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 15:12	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 15:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 15:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 15:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 15:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 15:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:27	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 20:05	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWA-48D		Lab ID: 92523277002		Collected: 02/17/21 13:27	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.21	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/02/21 15:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 15:35	7440-38-2	
Barium	0.064	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 15:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 15:35	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 15:35	7440-43-9	
Chromium	0.00069J	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 15:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 15:35	7440-48-4	
Lead	0.00026J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 15:35	7439-92-1	
Lithium	0.00099J	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 15:35	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 15:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 15:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 15:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:29	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 21:17	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-9		Lab ID: 92523277003		Collected: 02/17/21 15:58		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.43	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00075J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 15:40	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 15:40	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 15:40	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 15:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 15:40	7440-48-4	
Lead	0.000075J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 15:40	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 15:40	7439-93-2	
Molybdenum	0.0033J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 15:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 15:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 15:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:31	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.086J	mg/L	0.10	0.050	1		02/23/21 21:32	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL021721 Lab ID: 92523277004 Collected: 02/17/21 16:40 Received: 02/19/21 16:08 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00032J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 15:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 15:46	7440-38-2	
Barium	0.0022J	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 15:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 15:46	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 15:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 15:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 15:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 15:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 15:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 15:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 15:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 15:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 08:00	02/24/21 13:34	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 21:46	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL021721 Lab ID: 92523277005 Collected: 02/17/21 17:14 Received: 02/19/21 16:08 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 15:52	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 15:52	7440-38-2		
Barium	0.0022J	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 15:52	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 15:52	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 15:52	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 15:52	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 15:52	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 15:52	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 15:52	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 15:52	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 15:52	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 15:52	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:16	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 22:01	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: DUP-1 **Lab ID: 92523277006** Collected: 02/16/21 00:00 Received: 02/19/21 16:08 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 16:51	7440-36-0	
Arsenic	0.00091J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 16:51	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 16:51	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 16:51	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 16:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 16:51	7440-48-4	
Lead	0.000094J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 16:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 16:51	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 16:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:18	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 22:15	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: FBL021621		Lab ID: 92523277007		Collected: 02/16/21 15:25	Received: 02/19/21 16:08	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 16:57	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 16:57	7440-38-2		
Barium	0.0021J	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 16:57	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 16:57	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 16:57	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 16:57	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 16:57	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 16:57	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 16:57	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 16:57	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 16:57	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 16:57	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:21	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 22:30	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-17		Lab ID: 92523277008		Collected: 02/18/21 13:40	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.33	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:03	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:03	7440-39-3	
Beryllium	0.00065J	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:03	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:23	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.10	mg/L	0.10	0.050	1		02/23/21 22:44	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-18		Lab ID: 92523277009		Collected: 02/18/21 15:03		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.48	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:09	7440-38-2	
Barium	0.034	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:09	7440-39-3	
Beryllium	0.00068J	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:09	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:25	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 22:58	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-19		Lab ID: 92523277010		Collected: 02/18/21 16:28	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.66	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:14	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:14	7440-39-3	
Beryllium	0.000052J	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:14	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:28	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 23:13	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-20		Lab ID: 92523277011		Collected: 02/18/21 15:38		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.35	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:20	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:20	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:20	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:20	7440-43-9	
Chromium	0.00078J	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:20	7439-92-1	
Lithium	0.041	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:20	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:30	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 23:27	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWA-6		Lab ID: 92523277012		Collected: 02/18/21 14:11		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.34	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:26	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:26	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:26	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:26	7440-48-4	
Lead	0.000057J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:44	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/24/21 00:40	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-44D		Lab ID: 92523277013		Collected: 02/18/21 11:07		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.64	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0090	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/02/21 15:37	7440-36-0	
Arsenic	0.0078	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:31	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:31	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:31	7440-43-9	
Chromium	0.00093J	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:31	7440-48-4	
Lead	0.00017J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:31	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:31	7439-93-2	
Molybdenum	0.0062J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:47	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.16	mg/L	0.10	0.050	1		02/24/21 00:54	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: DUP-2		Lab ID: 92523277014		Collected: 02/18/21 00:00	Received: 02/19/21 16:08	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:37	7440-36-0		
Arsenic	0.0012J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:37	7440-38-2		
Barium	0.040	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:37	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:37	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:37	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:37	7440-47-3		
Cobalt	0.0012J	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:37	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:37	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:37	7439-93-2		
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:37	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:37	7782-49-2		
Thallium	0.00082J	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:37	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:49	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	0.054J	mg/L	0.10	0.050	1		02/24/21 01:09	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL021821		Lab ID: 92523277015		Collected: 02/18/21 16:40		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 17:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 17:43	7440-38-2	
Barium	0.0022J	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 17:43	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 17:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 17:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 17:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 17:43	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:52	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/24/21 01:23	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL021821		Lab ID: 92523277016		Collected: 02/18/21 16:34		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 18:00	7440-38-2	
Barium	0.0021J	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 18:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 18:00	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 18:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 18:00	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 18:00	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:54	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/24/21 01:37	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-21		Lab ID: 92523277017		Collected: 02/19/21 12:23	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.64	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 18:06	7440-36-0	
Arsenic	0.00079J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 18:06	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 18:06	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 18:06	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 18:06	7440-48-4	
Lead	0.000087J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 18:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 18:06	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 18:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:56	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/24/21 01:52	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-22		Lab ID: 92523277018		Collected: 02/19/21 13:25		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.90	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00028J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 18:12	7440-36-0	
Arsenic	0.0039J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 18:12	7440-38-2	
Barium	0.086	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 18:12	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 18:12	7440-41-7	
Cadmium	0.00038J	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 18:12	7440-47-3	
Cobalt	0.032	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 18:12	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 18:12	7439-92-1	
Lithium	0.035	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 18:12	7439-93-2	
Molybdenum	0.046	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 18:12	7782-49-2	
Thallium	0.00089J	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 18:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 10:59	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.20	mg/L	0.10	0.050	1		02/24/21 02:06	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-23 **Lab ID: 92523277019** Collected: 02/19/21 13:46 Received: 02/19/21 16:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.05	Std. Units			1		03/01/21 07:52		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	0.00031J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 18:17	7440-36-0	
Arsenic	0.0049J	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 18:17	7440-38-2	
Barium	0.12	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 18:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 18:17	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 18:17	7440-47-3	
Cobalt	0.00044J	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 18:17	7439-92-1	
Lithium	0.040	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 18:17	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 18:17	7782-49-2	
Thallium	0.00039J	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 18:17	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 11:01	7439-97-6	
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/24/21 02:21	16984-48-8	
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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-24		Lab ID: 92523277020		Collected: 02/19/21 12:21		Received: 02/19/21 16:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.66	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00036J	mg/L	0.0030	0.00028	1	02/24/21 10:39	03/01/21 18:23	7440-36-0	
Arsenic	0.0054	mg/L	0.0050	0.00078	1	02/24/21 10:39	03/01/21 18:23	7440-38-2	
Barium	0.081	mg/L	0.0050	0.00071	1	02/24/21 10:39	03/01/21 18:23	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000046	1	02/24/21 10:39	03/01/21 18:23	7440-41-7	
Cadmium	0.0068	mg/L	0.00050	0.00012	1	02/24/21 10:39	03/01/21 18:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/24/21 10:39	03/01/21 18:23	7440-47-3	
Cobalt	0.0042J	mg/L	0.0050	0.00038	1	02/24/21 10:39	03/01/21 18:23	7440-48-4	
Lead	0.000043J	mg/L	0.0010	0.000036	1	02/24/21 10:39	03/01/21 18:23	7439-92-1	
Lithium	0.0086J	mg/L	0.030	0.00081	1	02/24/21 10:39	03/01/21 18:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/24/21 10:39	03/01/21 18:23	7439-98-7	
Selenium	0.0065	mg/L	0.0050	0.0016	1	02/24/21 10:39	03/01/21 18:23	7782-49-2	
Thallium	0.00050J	mg/L	0.0010	0.00014	1	02/24/21 10:39	03/01/21 18:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.0033	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 11:08	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.14	mg/L	0.10	0.050	1		02/24/21 03:04	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-34D		Lab ID: 92523277021		Collected: 02/19/21 10:09	Received: 02/19/21 16:08	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.26	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:38	7440-36-0	
Arsenic	0.015	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:38	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:38	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:38	7440-47-3	
Cobalt	0.00057J	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:38	7439-93-2	
Molybdenum	0.00090J	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 11:10	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 13:55	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: FBL021921		Lab ID: 92523277022		Collected: 02/19/21 14:20	Received: 02/19/21 16:08	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:44	7440-38-2		
Barium	0.0020J	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:44	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:44	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 11:13	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 14:43	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL021921 Lab ID: 92523277023 Collected: 02/19/21 14:25 Received: 02/19/21 16:08 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/25/21 10:45	02/26/21 19:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/25/21 10:45	02/26/21 19:50	7440-38-2		
Barium	0.0020J	mg/L	0.0050	0.00071	1	02/25/21 10:45	02/26/21 19:50	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	02/25/21 10:45	02/26/21 19:50	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	02/25/21 10:45	02/26/21 19:50	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	02/25/21 10:45	02/26/21 19:50	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/25/21 10:45	02/26/21 19:50	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	02/25/21 10:45	02/26/21 19:50	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/25/21 10:45	02/26/21 19:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/25/21 10:45	02/26/21 19:50	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	02/25/21 10:45	02/26/21 19:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/25/21 10:45	02/26/21 19:50	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/24/21 15:10	02/25/21 11:15	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/23/21 14:59	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-25		Lab ID: 92523277024		Collected: 02/23/21 10:39		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.44	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 15:55	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 15:55	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 15:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 15:55	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 15:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 15:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 15:55	7440-48-4	
Lead	0.000074J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 15:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 15:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 15:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 15:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 15:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:47	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/28/21 06:41	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-32		Lab ID: 92523277025		Collected: 02/23/21 11:46	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.08	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00036J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 16:47	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 16:47	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 16:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 16:47	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 16:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 16:47	7440-47-3	
Cobalt	0.0062	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 16:47	7440-48-4	
Lead	0.000072J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 16:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 16:47	7439-93-2	
Molybdenum	0.0032J	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 16:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 16:47	7782-49-2	
Thallium	0.00015J	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 16:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:50	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.13	mg/L	0.10	0.050	1		02/28/21 06:56	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: DUP-4		Lab ID: 92523277026		Collected: 02/23/21 00:00	Received: 02/25/21 09:37	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 16:53	7440-36-0		
Arsenic	0.0041J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 16:53	7440-38-2		
Barium	0.019	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 16:53	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 16:53	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 16:53	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 16:53	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 16:53	7440-48-4		
Lead	0.000095J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 16:53	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 16:53	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 16:53	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 16:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 16:53	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:52	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/28/21 07:10	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL022321		Lab ID: 92523277027		Collected: 02/23/21 14:24		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 15:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 15:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 15:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 15:44	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 15:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 15:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 15:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 15:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 15:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 15:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 15:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 15:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:42	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Fluoride	ND	mg/L	0.10	0.050	1		02/27/21 00:00	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL022321 Lab ID: 92523277028 Collected: 02/23/21 14:30 Received: 02/25/21 09:37 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 15:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 15:50	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 15:50	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 15:50	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 15:50	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 15:50	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 15:50	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 15:50	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 15:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 15:50	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 15:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 15:50	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:45	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/27/21 00:00	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-51		Lab ID: 92523277029		Collected: 02/23/21 12:54		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.71	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 15:33	7440-36-0	
Arsenic	0.0048J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 15:33	7440-38-2	
Barium	0.054	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 15:33	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 15:33	7440-41-7	
Cadmium	0.00043J	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 15:33	7440-43-9	
Chromium	0.00060J	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 15:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 15:33	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 15:33	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 15:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 15:33	7439-98-7	
Selenium	0.013	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 15:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 15:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.0033	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:38	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.087J	mg/L	0.10	0.050	1		02/27/21 00:00	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-52		Lab ID: 92523277030		Collected: 02/23/21 11:04		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.95	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00053J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 15:38	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 15:38	7440-38-2	
Barium	0.095	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 15:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 15:38	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 15:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 15:38	7440-47-3	
Cobalt	0.0033J	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 15:38	7440-48-4	
Lead	0.00010J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 15:38	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 15:38	7439-93-2	
Molybdenum	0.0039J	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 15:38	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 15:38	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 15:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:40	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.073J	mg/L	0.10	0.050	1		02/27/21 00:00	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-35D		Lab ID: 92523277031		Collected: 02/22/21 15:01	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.16	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00066J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 16:58	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 16:58	7440-38-2	
Barium	0.091	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 16:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 16:58	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 16:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 16:58	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 16:58	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 16:58	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 16:58	7439-93-2	
Molybdenum	0.035	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 16:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 16:58	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 16:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 10:54	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	0.21	mg/L	0.10	0.050	1		02/28/21 07:25	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-37D		Lab ID: 92523277032		Collected: 02/22/21 14:01		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.49	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00041J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:04	7440-36-0	
Arsenic	0.019	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:04	7440-38-2	
Barium	0.090	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:04	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:04	7440-47-3	
Cobalt	0.00070J	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:04	7440-48-4	
Lead	0.00082J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:04	7439-92-1	
Lithium	0.0092J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:04	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/01/21 14:30	03/02/21 11:01	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.30	mg/L	0.10	0.050	1		02/27/21 23:56	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-39		Lab ID: 92523277033		Collected: 02/22/21 10:45	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	6.87	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:10	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:10	7440-38-2	
Barium	0.054	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:10	7440-41-7	
Cadmium	0.00014J	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:10	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:10	7439-93-2	
Molybdenum	0.0076J	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:10	7782-49-2	
Thallium	0.00021J	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:28	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.095J	mg/L	0.10	0.050	1		02/28/21 00:11	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: BGWC-40		Lab ID: 92523277034		Collected: 02/22/21 12:24		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.08	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:16	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:16	7440-38-2	
Barium	0.061	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:16	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:16	7440-47-3	
Cobalt	0.00060J	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:16	7440-48-4	
Lead	0.00014J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:16	7439-98-7	
Selenium	0.0094	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:16	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:37	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/28/21 00:25	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-41D		Lab ID: 92523277035		Collected: 02/22/21 12:44	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.48	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:21	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:21	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:21	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:21	7440-47-3	
Cobalt	0.00053J	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:21	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:21	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:40	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.099J	mg/L	0.10	0.050	1		02/28/21 00:40	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: BGWC-42D		Lab ID: 92523277036		Collected: 02/22/21 12:02	Received: 02/25/21 09:37	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.50	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:27	7440-36-0	
Arsenic	0.0068	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:27	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:27	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:27	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:27	7440-48-4	
Lead	0.000041J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:27	7439-93-2	
Molybdenum	0.0052J	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:42	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.69	mg/L	0.10	0.050	1		03/03/21 05:07	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
 Pace Project No.: 92526941

Sample: BGWC-31		Lab ID: 92523277037		Collected: 02/22/21 14:40		Received: 02/25/21 09:37		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/01/21 07:52		
pH	7.21	Std. Units			1		03/01/21 07:52		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 17:33	7440-36-0	
Arsenic	0.0049J	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 17:33	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 17:33	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 17:33	7440-48-4	
Lead	0.00045J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 17:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 17:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:49	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		03/03/21 05:21	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Sample: DUP-3 **Lab ID: 92523277038** Collected: 02/22/21 10:00 Received: 02/25/21 09:37 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 18:01	7440-36-0	
Arsenic	0.0066	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 18:01	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 18:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 18:01	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 18:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 18:01	7440-48-4	
Lead	0.000048J	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 18:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 18:01	7439-93-2	
Molybdenum	0.0050J	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 18:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 18:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:52	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.67	mg/L	0.10	0.050	1		03/03/21 05:36	16984-48-8	

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: FBL022221		Lab ID: 92523277039		Collected: 02/22/21 16:11	Received: 02/25/21 09:37	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 18:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 18:06	7440-38-2		
Barium	0.0021J	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 18:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 18:06	7440-41-7		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 18:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 18:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 18:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 18:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 18:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 18:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 18:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 18:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:54	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		03/03/21 06:19	16984-48-8		

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ANALYTICAL RESULTS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Sample: EQBL022221 Lab ID: 92523277040 Collected: 02/22/21 16:14 Received: 02/25/21 09:37 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/02/21 10:58	03/03/21 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/02/21 10:58	03/03/21 18:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/02/21 10:58	03/03/21 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/02/21 10:58	03/03/21 18:12	7440-41-7	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/02/21 10:58	03/03/21 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/02/21 10:58	03/03/21 18:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/02/21 10:58	03/03/21 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/02/21 10:58	03/03/21 18:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/02/21 10:58	03/03/21 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/02/21 10:58	03/03/21 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/02/21 10:58	03/03/21 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/02/21 10:58	03/03/21 18:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 07:40	03/04/21 13:56	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		03/03/21 07:03	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 602214 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523277001, 92523277002, 92523277003, 92523277004, 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020

METHOD BLANK: 3173050 Matrix: Water
Associated Lab Samples: 92523277001, 92523277002, 92523277003, 92523277004, 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/01/21 15:00	
Arsenic	mg/L	ND	0.0050	0.00078	03/01/21 15:00	
Barium	mg/L	ND	0.0050	0.00071	03/01/21 15:00	
Beryllium	mg/L	ND	0.00050	0.000046	03/01/21 15:00	
Cadmium	mg/L	ND	0.00050	0.00012	03/01/21 15:00	
Chromium	mg/L	ND	0.0050	0.00055	03/01/21 15:00	
Cobalt	mg/L	ND	0.0050	0.00038	03/01/21 15:00	
Lead	mg/L	ND	0.0010	0.000036	03/01/21 15:00	
Lithium	mg/L	ND	0.030	0.00081	03/01/21 15:00	
Molybdenum	mg/L	ND	0.010	0.00069	03/01/21 15:00	
Selenium	mg/L	ND	0.0050	0.0016	03/01/21 15:00	
Thallium	mg/L	ND	0.0010	0.00014	03/01/21 15:00	

LABORATORY CONTROL SAMPLE: 3173051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3173052 3173053

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0013J	0.1	0.1	0.11	0.11	114	108	75-125	5	20

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Parameter	Units	3173052		3173053		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Barium	mg/L	0.060	0.1	0.1	0.16	0.15	101	93	75-125	5	20		
Beryllium	mg/L	ND	0.1	0.1	0.097	0.092	97	92	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	0.00099J	0.1	0.1	0.10	0.099	101	98	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.096	100	96	75-125	4	20		
Lead	mg/L	0.00015J	0.1	0.1	0.10	0.096	100	96	75-125	4	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.097	101	96	75-125	5	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	97	94	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 602560 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009, 92523277021, 92523277022, 92523277023

METHOD BLANK: 3174813 Matrix: Water
Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009, 92523277021, 92523277022, 92523277023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/26/21 18:07	
Arsenic	mg/L	ND	0.0050	0.00078	02/26/21 18:07	
Barium	mg/L	ND	0.0050	0.00071	02/26/21 18:07	
Beryllium	mg/L	ND	0.00050	0.000046	02/26/21 18:07	
Cadmium	mg/L	ND	0.00050	0.00012	02/26/21 18:07	
Chromium	mg/L	ND	0.0050	0.00055	02/26/21 18:07	
Cobalt	mg/L	ND	0.0050	0.00038	02/26/21 18:07	
Lead	mg/L	ND	0.0010	0.000036	02/26/21 18:07	
Lithium	mg/L	ND	0.030	0.00081	02/26/21 18:07	
Molybdenum	mg/L	ND	0.010	0.00069	02/26/21 18:07	
Selenium	mg/L	ND	0.0050	0.0016	02/26/21 18:07	
Thallium	mg/L	ND	0.0010	0.00014	02/26/21 18:07	

LABORATORY CONTROL SAMPLE: 3174814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3174815 3174816

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20		
Barium	mg/L	0.15	0.1	0.1	0.25	0.25	102	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Parameter	Units	3174815		3174816		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	103	108	75-125	5	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		
Lead	mg/L	0.00011J	0.1	0.1	0.094	0.098	94	97	75-125	4	20		
Lithium	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	1	20		
Molybdenum	mg/L	0.0011J	0.1	0.1	0.10	0.11	103	104	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.092	0.093	92	93	75-125	1	20		
Thallium	mg/L	0.00020J	0.1	0.1	0.093	0.096	93	95	75-125	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 603526 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277027, 92523277028, 92523277029, 92523277030, 92523277031, 92523277032, 92523277033, 92523277034, 92523277035, 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

METHOD BLANK: 3179514 Matrix: Water
Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277027, 92523277028, 92523277029, 92523277030, 92523277031, 92523277032, 92523277033, 92523277034, 92523277035, 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/03/21 15:21	
Arsenic	mg/L	ND	0.0050	0.00078	03/03/21 15:21	
Barium	mg/L	ND	0.0050	0.00071	03/03/21 15:21	
Beryllium	mg/L	ND	0.00050	0.000046	03/03/21 15:21	
Cadmium	mg/L	ND	0.00050	0.00012	03/03/21 15:21	
Chromium	mg/L	ND	0.0050	0.00055	03/03/21 15:21	
Cobalt	mg/L	ND	0.0050	0.00038	03/03/21 15:21	
Lead	mg/L	ND	0.0010	0.000036	03/03/21 15:21	
Lithium	mg/L	ND	0.030	0.00081	03/03/21 15:21	
Molybdenum	mg/L	ND	0.010	0.00069	03/03/21 15:21	
Selenium	mg/L	ND	0.0050	0.0016	03/03/21 15:21	
Thallium	mg/L	ND	0.0010	0.00014	03/03/21 15:21	

LABORATORY CONTROL SAMPLE: 3179515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.094	94	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179528 3179529

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	1	20

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Parameter	Units	3179528		3179529		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92523277024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	0.0040J	0.1	0.1	0.098	0.098	94	94	75-125	1	20		
Barium	mg/L	0.019	0.1	0.1	0.11	0.11	95	95	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	4	20		
Cobalt	mg/L	ND	0.1	0.1	0.093	0.097	92	97	75-125	5	20		
Lead	mg/L	0.000074J	0.1	0.1	0.094	0.096	94	96	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	2	20		

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 607964 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92526941001, 92526941002, 92526941003, 92526941004, 92526941005, 92526941006, 92526941007, 92526941008

METHOD BLANK: 3202640 Matrix: Water
Associated Lab Samples: 92526941001, 92526941002, 92526941003, 92526941004, 92526941005, 92526941006, 92526941007, 92526941008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/19/21 19:29	
Arsenic	mg/L	ND	0.0050	0.00078	03/19/21 19:29	
Barium	mg/L	ND	0.0050	0.00071	03/19/21 19:29	
Beryllium	mg/L	ND	0.00050	0.000046	03/19/21 19:29	
Cadmium	mg/L	ND	0.00050	0.00012	03/19/21 19:29	
Chromium	mg/L	ND	0.0050	0.00055	03/19/21 19:29	
Cobalt	mg/L	ND	0.0050	0.00038	03/19/21 19:29	
Lead	mg/L	ND	0.0010	0.000036	03/19/21 19:29	
Lithium	mg/L	ND	0.030	0.00081	03/19/21 19:29	
Molybdenum	mg/L	ND	0.010	0.00069	03/19/21 19:29	
Selenium	mg/L	ND	0.0050	0.0016	03/19/21 19:29	
Thallium	mg/L	ND	0.0010	0.00014	03/19/21 19:29	

LABORATORY CONTROL SAMPLE: 3202641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	120	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.11	106	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Cadmium	mg/L	0.1	0.11	107	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	108	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3202642 3202643

Parameter	Units	92526941001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.12	118	118	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.10	107	104	75-125	2	20	
Barium	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

		3202642			3202643							
Parameter	Units	92526941001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec		Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	107	104	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	1	20	
Chromium	mg/L	0.00062J	0.1	0.1	0.11	0.10	108	103	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	106	101	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	105	101	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch: 601883

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009, 92523277001, 92523277002, 92523277003, 92523277004

METHOD BLANK: 3171311

Matrix: Water

Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009, 92523277001, 92523277002, 92523277003, 92523277004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/24/21 12:27	

LABORATORY CONTROL SAMPLE: 3171312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171313 3171314

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92521151021 Result	Spike Conc.	Spike Conc.	Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	100	100	75-125	0	20

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch:	602268	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020, 92523277021, 92523277022, 92523277023

METHOD BLANK: 3173354 Matrix: Water
Associated Lab Samples: 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020, 92523277021, 92523277022, 92523277023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/25/21 10:11	

LABORATORY CONTROL SAMPLE: 3173355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3173356 3173357

Parameter	Units	92523277011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	97	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch: 602886 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277027, 92523277028, 92523277029, 92523277030, 92523277031, 92523277032

METHOD BLANK: 3176585 Matrix: Water
 Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277027, 92523277028, 92523277029, 92523277030, 92523277031, 92523277032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/02/21 10:05	

LABORATORY CONTROL SAMPLE: 3176586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176587 3176588

Parameter	Units	92522877002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	84	85	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch:	603897	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523277033, 92523277034, 92523277035, 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

METHOD BLANK: 3181291 Matrix: Water

Associated Lab Samples: 92523277033, 92523277034, 92523277035, 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/04/21 12:39	

LABORATORY CONTROL SAMPLE: 3181292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3181293 3181294

Parameter	Units	92523277033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch:	606880	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92526941001, 92526941002, 92526941003, 92526941004

METHOD BLANK: 3197255 Matrix: Water

Associated Lab Samples: 92526941001, 92526941002, 92526941003, 92526941004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/17/21 09:31	

LABORATORY CONTROL SAMPLE: 3197256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3197257 3197258

Parameter	Units	3197257		3197258		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0025	95	99	75-125	4	20	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 607630 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92526941005, 92526941006, 92526941007, 92526941008

METHOD BLANK: 3200899 Matrix: Water
Associated Lab Samples: 92526941005, 92526941006, 92526941007, 92526941008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/23/21 11:04	

LABORATORY CONTROL SAMPLE: 3200900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3200901 3200902

Parameter	Units	3200901		3200902		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92526941005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	97	98	75-125	2	20

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch:	601823	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009

METHOD BLANK: 3171053 Matrix: Water

Associated Lab Samples: 92523272001, 92523272002, 92523272003, 92523272004, 92523272005, 92523272006, 92523272007, 92523272008, 92523272009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/23/21 12:19	

LABORATORY CONTROL SAMPLE: 3171054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171055 3171056

Parameter	Units	92523181001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.6	96	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171287 3171288

Parameter	Units	92523272001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	3	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch:	601824	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92523277001, 92523277002, 92523277003, 92523277004, 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020		

METHOD BLANK:	3171059	Matrix:	Water
Associated Lab Samples:	92523277001, 92523277002, 92523277003, 92523277004, 92523277005, 92523277006, 92523277007, 92523277008, 92523277009, 92523277010, 92523277011, 92523277012, 92523277013, 92523277014, 92523277015, 92523277016, 92523277017, 92523277018, 92523277019, 92523277020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/23/21 19:36	

LABORATORY CONTROL SAMPLE:	3171060					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3171061	3171062										
Parameter	Units	92523277001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3171063	3171064										
Parameter	Units	92523277011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	91	93	90-110	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch: 601825 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523277021, 92523277022, 92523277023

METHOD BLANK: 3171066 Matrix: Water

Associated Lab Samples: 92523277021, 92523277022, 92523277023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/23/21 13:23	

LABORATORY CONTROL SAMPLE: 3171067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171068 3171069

Parameter	Units	92523277021		3171069		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Fluoride	mg/L	ND	2.5	2.5	2.6	99	102	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171070 3171071

Parameter	Units	92522850002		3171071		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Fluoride	mg/L	0.074J	2.5	2.5	2.6	100	102	90-110	1	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 602932 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277031

METHOD BLANK: 3176798 Matrix: Water
Associated Lab Samples: 92523277024, 92523277025, 92523277026, 92523277031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/28/21 00:54	

LABORATORY CONTROL SAMPLE: 3176799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176800 3176801

Parameter	Units	92524138021		3176801		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	0.14	2.5	2.5	2.6	99	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176802 3176803

Parameter	Units	92524350007		3176803		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Fluoride	mg/L	ND	2.5	2.5	2.5	96	98	90-110	2	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 603111 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92523277027, 92523277028, 92523277029, 92523277030, 92523277032, 92523277033, 92523277034, 92523277035

METHOD BLANK: 3177761 Matrix: Water
Associated Lab Samples: 92523277027, 92523277028, 92523277029, 92523277030, 92523277032, 92523277033, 92523277034, 92523277035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/27/21 11:40	

LABORATORY CONTROL SAMPLE: 3177762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177763 3177764

Parameter	Units	92524525001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.59	2.5	2.5	3.0	3.1	98	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177765 3177766

Parameter	Units	92523908003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.26	2.5	2.5	2.7	2.7	97	99	90-110	2	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

QC Batch: 603536 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

METHOD BLANK: 3179566 Matrix: Water
 Associated Lab Samples: 92523277036, 92523277037, 92523277038, 92523277039, 92523277040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	03/03/21 02:42	

LABORATORY CONTROL SAMPLE: 3179567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179568 3179569

Parameter	Units	92523277039		3179569		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Fluoride	mg/L	ND	2.5	2.4	2.5	97	99	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3179570 3179571

Parameter	Units	92523038012		3179571		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Fluoride	mg/L	0.091J	2.5	2.6	2.6	100	101	90-110	1	10	

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 606814 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92526941001, 92526941002, 92526941003

METHOD BLANK: 3196945 Matrix: Water
Associated Lab Samples: 92526941001, 92526941002, 92526941003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	03/17/21 01:31	

LABORATORY CONTROL SAMPLE: 3196946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196947 3196948

Parameter	Units	92526337010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Fluoride	mg/L	0.080J	2.5	2.5	2.4	2.5	95	97	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196949 3196950

Parameter	Units	92524632022		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	96	90-110	0	10		

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QUALITY CONTROL DATA

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

QC Batch: 606815 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92526941004, 92526941005, 92526941006, 92526941007, 92526941008

METHOD BLANK: 3196953 Matrix: Water
Associated Lab Samples: 92526941004, 92526941005, 92526941006, 92526941007, 92526941008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	03/16/21 14:18	

LABORATORY CONTROL SAMPLE: 3196954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196955 3196956

Parameter	Units	92526941004		3196955		3196956		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Fluoride	mg/L	0.90	2.5	2.5	3.5	3.6	106	108	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3196957 3196958

Parameter	Units	92525536004		3196957		3196958		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	102	90-110	1	10

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QUALIFIERS

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523272001	BGWA-2				
92523272002	BGWA-29				
92523272003	BGWC-8				
92523272004	BGWA-33				
92523272005	BGWC-12				
92523272006	BGWC-7				
92523272007	BGWC-10				
92523272008	BGWC-14A				
92523272009	BGWC-16				
92523277001	BGWA-47D				
92523277002	BGWA-48D				
92523277003	BGWC-9				
92523277008	BGWC-17				
92523277009	BGWC-18				
92523277010	BGWC-19				
92523277011	BGWC-20				
92523277012	BGWA-6				
92523277013	BGWC-44D				
92523277017	BGWC-21				
92523277018	BGWC-22				
92523277019	BGWC-23				
92523277020	BGWC-24				
92523277021	BGWC-34D				
92523277024	BGWC-25				
92523277025	BGWC-32				
92523277029	BGWC-51				
92523277030	BGWC-52				
92523277031	BGWC-35D				
92523277032	BGWC-37D				
92523277033	BGWC-39				
92523277034	BGWC-40				
92523277035	BGWC-41D				
92523277036	BGWC-42D				
92523277037	BGWC-31				
92526941003	BGWC-36D				
92526941004	BGWC-43D				
92526941005	BGWC-30				
92526941006	BGWC-38D				
92523272001	BGWA-2	EPA 3005A	602560	EPA 6020B	602645
92523272002	BGWA-29	EPA 3005A	602560	EPA 6020B	602645
92523272003	BGWC-8	EPA 3005A	602560	EPA 6020B	602645
92523272004	BGWA-33	EPA 3005A	602560	EPA 6020B	602645
92523272005	BGWC-12	EPA 3005A	602560	EPA 6020B	602645
92523272006	BGWC-7	EPA 3005A	602560	EPA 6020B	602645
92523272007	BGWC-10	EPA 3005A	602560	EPA 6020B	602645
92523272008	BGWC-14A	EPA 3005A	602560	EPA 6020B	602645
92523272009	BGWC-16	EPA 3005A	602560	EPA 6020B	602645
92523277001	BGWA-47D	EPA 3005A	602214	EPA 6020B	602314

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523277002	BGWA-48D	EPA 3005A	602214	EPA 6020B	602314
92523277003	BGWC-9	EPA 3005A	602214	EPA 6020B	602314
92523277004	FBL021721	EPA 3005A	602214	EPA 6020B	602314
92523277005	EQBL021721	EPA 3005A	602214	EPA 6020B	602314
92523277006	DUP-1	EPA 3005A	602214	EPA 6020B	602314
92523277007	FBL021621	EPA 3005A	602214	EPA 6020B	602314
92523277008	BGWC-17	EPA 3005A	602214	EPA 6020B	602314
92523277009	BGWC-18	EPA 3005A	602214	EPA 6020B	602314
92523277010	BGWC-19	EPA 3005A	602214	EPA 6020B	602314
92523277011	BGWC-20	EPA 3005A	602214	EPA 6020B	602314
92523277012	BGWA-6	EPA 3005A	602214	EPA 6020B	602314
92523277013	BGWC-44D	EPA 3005A	602214	EPA 6020B	602314
92523277014	DUP-2	EPA 3005A	602214	EPA 6020B	602314
92523277015	FBL021821	EPA 3005A	602214	EPA 6020B	602314
92523277016	EQBL021821	EPA 3005A	602214	EPA 6020B	602314
92523277017	BGWC-21	EPA 3005A	602214	EPA 6020B	602314
92523277018	BGWC-22	EPA 3005A	602214	EPA 6020B	602314
92523277019	BGWC-23	EPA 3005A	602214	EPA 6020B	602314
92523277020	BGWC-24	EPA 3005A	602214	EPA 6020B	602314
92523277021	BGWC-34D	EPA 3005A	602560	EPA 6020B	602645
92523277022	FBL021921	EPA 3005A	602560	EPA 6020B	602645
92523277023	EQBL021921	EPA 3005A	602560	EPA 6020B	602645
92523277024	BGWC-25	EPA 3005A	603526	EPA 6020B	603634
92523277025	BGWC-32	EPA 3005A	603526	EPA 6020B	603634
92523277026	DUP-4	EPA 3005A	603526	EPA 6020B	603634
92523277027	FBL022321	EPA 3005A	603526	EPA 6020B	603634
92523277028	EQBL022321	EPA 3005A	603526	EPA 6020B	603634
92523277029	BGWC-51	EPA 3005A	603526	EPA 6020B	603634
92523277030	BGWC-52	EPA 3005A	603526	EPA 6020B	603634
92523277031	BGWC-35D	EPA 3005A	603526	EPA 6020B	603634
92523277032	BGWC-37D	EPA 3005A	603526	EPA 6020B	603634
92523277033	BGWC-39	EPA 3005A	603526	EPA 6020B	603634
92523277034	BGWC-40	EPA 3005A	603526	EPA 6020B	603634
92523277035	BGWC-41D	EPA 3005A	603526	EPA 6020B	603634
92523277036	BGWC-42D	EPA 3005A	603526	EPA 6020B	603634
92523277037	BGWC-31	EPA 3005A	603526	EPA 6020B	603634
92523277038	DUP-3	EPA 3005A	603526	EPA 6020B	603634
92523277039	FBL022221	EPA 3005A	603526	EPA 6020B	603634
92523277040	EQBL022221	EPA 3005A	603526	EPA 6020B	603634
92526941001	FBL030821	EPA 3005A	607964	EPA 6020B	608044
92526941002	EQBL030821	EPA 3005A	607964	EPA 6020B	608044
92526941003	BGWC-36D	EPA 3005A	607964	EPA 6020B	608044
92526941004	BGWC-43D	EPA 3005A	607964	EPA 6020B	608044
92526941005	BGWC-30	EPA 3005A	607964	EPA 6020B	608044
92526941006	BGWC-38D	EPA 3005A	607964	EPA 6020B	608044
92526941007	FBL030921	EPA 3005A	607964	EPA 6020B	608044
92526941008	EQBL030921	EPA 3005A	607964	EPA 6020B	608044

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523272001	BGWA-2	EPA 7470A	601883	EPA 7470A	602188
92523272002	BGWA-29	EPA 7470A	601883	EPA 7470A	602188
92523272003	BGWC-8	EPA 7470A	601883	EPA 7470A	602188
92523272004	BGWA-33	EPA 7470A	601883	EPA 7470A	602188
92523272005	BGWC-12	EPA 7470A	601883	EPA 7470A	602188
92523272006	BGWC-7	EPA 7470A	601883	EPA 7470A	602188
92523272007	BGWC-10	EPA 7470A	601883	EPA 7470A	602188
92523272008	BGWC-14A	EPA 7470A	601883	EPA 7470A	602188
92523272009	BGWC-16	EPA 7470A	601883	EPA 7470A	602188
92523277001	BGWA-47D	EPA 7470A	601883	EPA 7470A	602188
92523277002	BGWA-48D	EPA 7470A	601883	EPA 7470A	602188
92523277003	BGWC-9	EPA 7470A	601883	EPA 7470A	602188
92523277004	FBL021721	EPA 7470A	601883	EPA 7470A	602188
92523277005	EQBL021721	EPA 7470A	602268	EPA 7470A	602517
92523277006	DUP-1	EPA 7470A	602268	EPA 7470A	602517
92523277007	FBL021621	EPA 7470A	602268	EPA 7470A	602517
92523277008	BGWC-17	EPA 7470A	602268	EPA 7470A	602517
92523277009	BGWC-18	EPA 7470A	602268	EPA 7470A	602517
92523277010	BGWC-19	EPA 7470A	602268	EPA 7470A	602517
92523277011	BGWC-20	EPA 7470A	602268	EPA 7470A	602517
92523277012	BGWA-6	EPA 7470A	602268	EPA 7470A	602517
92523277013	BGWC-44D	EPA 7470A	602268	EPA 7470A	602517
92523277014	DUP-2	EPA 7470A	602268	EPA 7470A	602517
92523277015	FBL021821	EPA 7470A	602268	EPA 7470A	602517
92523277016	EQBL021821	EPA 7470A	602268	EPA 7470A	602517
92523277017	BGWC-21	EPA 7470A	602268	EPA 7470A	602517
92523277018	BGWC-22	EPA 7470A	602268	EPA 7470A	602517
92523277019	BGWC-23	EPA 7470A	602268	EPA 7470A	602517
92523277020	BGWC-24	EPA 7470A	602268	EPA 7470A	602517
92523277021	BGWC-34D	EPA 7470A	602268	EPA 7470A	602517
92523277022	FBL021921	EPA 7470A	602268	EPA 7470A	602517
92523277023	EQBL021921	EPA 7470A	602268	EPA 7470A	602517
92523277024	BGWC-25	EPA 7470A	602886	EPA 7470A	603353
92523277025	BGWC-32	EPA 7470A	602886	EPA 7470A	603353
92523277026	DUP-4	EPA 7470A	602886	EPA 7470A	603353
92523277027	FBL022321	EPA 7470A	602886	EPA 7470A	603353
92523277028	EQBL022321	EPA 7470A	602886	EPA 7470A	603353
92523277029	BGWC-51	EPA 7470A	602886	EPA 7470A	603353
92523277030	BGWC-52	EPA 7470A	602886	EPA 7470A	603353
92523277031	BGWC-35D	EPA 7470A	602886	EPA 7470A	603353
92523277032	BGWC-37D	EPA 7470A	602886	EPA 7470A	603353
92523277033	BGWC-39	EPA 7470A	603897	EPA 7470A	604168
92523277034	BGWC-40	EPA 7470A	603897	EPA 7470A	604168
92523277035	BGWC-41D	EPA 7470A	603897	EPA 7470A	604168
92523277036	BGWC-42D	EPA 7470A	603897	EPA 7470A	604168
92523277037	BGWC-31	EPA 7470A	603897	EPA 7470A	604168
92523277038	DUP-3	EPA 7470A	603897	EPA 7470A	604168

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN
Pace Project No.: 92526941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523277039	FBL022221	EPA 7470A	603897	EPA 7470A	604168
92523277040	EQBL022221	EPA 7470A	603897	EPA 7470A	604168
92526941001	FBL030821	EPA 7470A	606880	EPA 7470A	606933
92526941002	EQBL030821	EPA 7470A	606880	EPA 7470A	606933
92526941003	BGWC-36D	EPA 7470A	606880	EPA 7470A	606933
92526941004	BGWC-43D	EPA 7470A	606880	EPA 7470A	606933
92526941005	BGWC-30	EPA 7470A	607630	EPA 7470A	608236
92526941006	BGWC-38D	EPA 7470A	607630	EPA 7470A	608236
92526941007	FBL030921	EPA 7470A	607630	EPA 7470A	608236
92526941008	EQBL030921	EPA 7470A	607630	EPA 7470A	608236
92523272001	BGWA-2	EPA 300.0 Rev 2.1 1993	601823		
92523272002	BGWA-29	EPA 300.0 Rev 2.1 1993	601823		
92523272003	BGWC-8	EPA 300.0 Rev 2.1 1993	601823		
92523272004	BGWA-33	EPA 300.0 Rev 2.1 1993	601823		
92523272005	BGWC-12	EPA 300.0 Rev 2.1 1993	601823		
92523272006	BGWC-7	EPA 300.0 Rev 2.1 1993	601823		
92523272007	BGWC-10	EPA 300.0 Rev 2.1 1993	601823		
92523272008	BGWC-14A	EPA 300.0 Rev 2.1 1993	601823		
92523272009	BGWC-16	EPA 300.0 Rev 2.1 1993	601823		
92523277001	BGWA-47D	EPA 300.0 Rev 2.1 1993	601824		
92523277002	BGWA-48D	EPA 300.0 Rev 2.1 1993	601824		
92523277003	BGWC-9	EPA 300.0 Rev 2.1 1993	601824		
92523277004	FBL021721	EPA 300.0 Rev 2.1 1993	601824		
92523277005	EQBL021721	EPA 300.0 Rev 2.1 1993	601824		
92523277006	DUP-1	EPA 300.0 Rev 2.1 1993	601824		
92523277007	FBL021621	EPA 300.0 Rev 2.1 1993	601824		
92523277008	BGWC-17	EPA 300.0 Rev 2.1 1993	601824		
92523277009	BGWC-18	EPA 300.0 Rev 2.1 1993	601824		
92523277010	BGWC-19	EPA 300.0 Rev 2.1 1993	601824		
92523277011	BGWC-20	EPA 300.0 Rev 2.1 1993	601824		
92523277012	BGWA-6	EPA 300.0 Rev 2.1 1993	601824		
92523277013	BGWC-44D	EPA 300.0 Rev 2.1 1993	601824		
92523277014	DUP-2	EPA 300.0 Rev 2.1 1993	601824		
92523277015	FBL021821	EPA 300.0 Rev 2.1 1993	601824		
92523277016	EQBL021821	EPA 300.0 Rev 2.1 1993	601824		
92523277017	BGWC-21	EPA 300.0 Rev 2.1 1993	601824		
92523277018	BGWC-22	EPA 300.0 Rev 2.1 1993	601824		
92523277019	BGWC-23	EPA 300.0 Rev 2.1 1993	601824		
92523277020	BGWC-24	EPA 300.0 Rev 2.1 1993	601824		
92523277021	BGWC-34D	EPA 300.0 Rev 2.1 1993	601825		
92523277022	FBL021921	EPA 300.0 Rev 2.1 1993	601825		
92523277023	EQBL021921	EPA 300.0 Rev 2.1 1993	601825		
92523277024	BGWC-25	EPA 300.0 Rev 2.1 1993	602932		
92523277025	BGWC-32	EPA 300.0 Rev 2.1 1993	602932		
92523277026	DUP-4	EPA 300.0 Rev 2.1 1993	602932		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN ASH POND SCAN

Pace Project No.: 92526941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523277027	FBL022321	EPA 300.0 Rev 2.1 1993	603111		
92523277028	EQBL022321	EPA 300.0 Rev 2.1 1993	603111		
92523277029	BGWC-51	EPA 300.0 Rev 2.1 1993	603111		
92523277030	BGWC-52	EPA 300.0 Rev 2.1 1993	603111		
92523277031	BGWC-35D	EPA 300.0 Rev 2.1 1993	602932		
92523277032	BGWC-37D	EPA 300.0 Rev 2.1 1993	603111		
92523277033	BGWC-39	EPA 300.0 Rev 2.1 1993	603111		
92523277034	BGWC-40	EPA 300.0 Rev 2.1 1993	603111		
92523277035	BGWC-41D	EPA 300.0 Rev 2.1 1993	603111		
92523277036	BGWC-42D	EPA 300.0 Rev 2.1 1993	603536		
92523277037	BGWC-31	EPA 300.0 Rev 2.1 1993	603536		
92523277038	DUP-3	EPA 300.0 Rev 2.1 1993	603536		
92523277039	FBL022221	EPA 300.0 Rev 2.1 1993	603536		
92523277040	EQBL022221	EPA 300.0 Rev 2.1 1993	603536		
92526941001	FBL030821	EPA 300.0 Rev 2.1 1993	606814		
92526941002	EQBL030821	EPA 300.0 Rev 2.1 1993	606814		
92526941003	BGWC-36D	EPA 300.0 Rev 2.1 1993	606814		
92526941004	BGWC-43D	EPA 300.0 Rev 2.1 1993	606815		
92526941005	BGWC-30	EPA 300.0 Rev 2.1 1993	606815		
92526941006	BGWC-38D	EPA 300.0 Rev 2.1 1993	606815		
92526941007	FBL030921	EPA 300.0 Rev 2.1 1993	606815		
92526941008	EQBL030921	EPA 300.0 Rev 2.1 1993	606815		

REPORT OF LABORATORY ANALYSIS

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Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Warner Road
 Atlanta, GA 30339
 Email: jlabraham@outlook.com
 Phone: (404)508-7239 Fax:
 Requested Due Date:

Section B
Required Project Information:

Report To: Kristen Jenkins
 Copy To: Geographic Contacts
 Purchase Order #: SCS10248908
 Project Name: Plant Bowen Ash Pond Scan
 Project #:

Section C
Invoice Information:

Attention: Company Name:
 Address:
 Pace Order:
 Pace Project Manager: betsy.mcdaniell@paceelabs.com
 Pace Profile #: 315
 Regulatory Agency:
 State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)		
						DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	Analyses Test
1	BGWC-32	Outlet Water Waste Water Process Water Other	DW WT WW P BL CL WP AR OT																
2	BGWC-34D																		
3	BGWC-35D																		
4	BGWC-36D			5G	3/12/21	1305				4	1	3							
5	BGWC-37D																		
6	BGWC-38D																		
7	BGWC-39																		
8	BGWC-40																		
9	BGWC-41D																		
10	BGWC-42D																		
11	BGWC-43D			5G	3/12/21	1524				4	1	3							
12	BGWC-44D																		

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Ygen Williams / Pace

DATE: 3/10/21 TIME: 1426

ACCEPTED BY / AFFILIATION: Ygen Williams / Pace

DATE: 3/10/21 TIME: 0847

SAMPLER NAME AND SIGNATURE: Ygen Williams / Pace

PRINT Name of SAMPLER: Ygen Williams / Pace

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3/8/21

TEMP in C

Received on (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residues
 Address: 2400 Merder Road
 Atlanta, GA 30339
 Email: jbarham@southemco.com
 Phone: (404)506-7239
 Fax: (404)506-7239
 Requested Due Date:

Section B

Required Project Information:

Report To: Kristen Jurpho
 Copy To: Geographic Contacts
 Purchase Order #: SCS10248908
 Project Name: Plant Bowen Ash Pond Scan
 Project #:

Section C

Invoice Information:

Author: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Project Manager: belisy.mondanilla@pacelabs.com
 Project Profile #: 315
 Requested Analytical Filtered (Y/N):

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)
			START	TIME					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	BGWC-47																	
2	BGWC-18																	
3	BGWC-19																	
4	BGWC-20																	
5	BGWC-21																	
6	BGWC-22																	
7	BGWC-23																	
8	BGWC-24																	
9	BGWC-25																	
10	BGWC-30																	
11	BGWA-6																	
12	BGWC-34																	

MATRIX	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Matrix: Drying Vial Water Nitric Acid Hydrochloric Acid HF HCl HNO3 H2SO4 Other									
CODE: GW WV SW A S L C A W AT OT TS									

ADDITIONAL COMMENTS: [Blank]

RELINQUISHED BY / AFFILIATION: [Blank]

ACCEPTED BY / AFFILIATION: [Blank]

DATE: 7/16/21 142L

DATE: 3/10/21 0847

DATE: 3/14/21 1726

SAMPLER NAME AND SIGNATURE: [Blank]

PRINT Name of SAMPLER: [Blank]

SIGNATURE OF SAMPLER: [Blank]

DATE Signed: 3/8/21

TEMP in C: [Blank]

Received on Ice (Y/N): [Blank]

Cooler Sealed (Y/N): [Blank]

Sample Intact (Y/N): [Blank]



Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Miller Road
 Atlanta, GA 30339
 Email: jlahahn@geopower.com
 Phone: (404)508-7289
 Requested Date/Dedic:

Section B
Required Project Information:

Report To: Kristen Jurisko
 Copy To: Geosynthetic Contacts
 Purchase Order #: SC510348606
 Project Name: Plant Bowen Ash Pond Scan
 Project #:

Section C
Invoice Information:

Attention: Kristen Jurisko
 Company Name: Geosynthetic Contacts
 Address:
 Plant Bowen
 Project Manager: betsy.mcdaniels@paccelabs.com
 P.O. Box # 315

Regulatory Agency
 GA

ITEM #	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
						START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	BGWC-92-	Distilling Water Wetted Water Wetted Water Prepared Standard OC M M M T	DW WT WW P OL WP MS OT TS																
2	BGWC-34D-																		
3	BGWC-35D-																		
4	BGWC-36D-																		
5	BGWC-37D-																		
6	BGWC-38D			SG		3/9/21	1112		4	3									
7	BGWC-39																		
8	BGWC-40-																		
9	BGWC-41D-																		
10	BGWC-42D																		
11	BGWC-43D-																		
12	BGWC-44D-																		

RELEASHER BY / AFFILIATION: Ken Williams / Pacel DATE: 3/10/21 TIME: 1423

ACCEPTED BY / AFFILIATION: Ken Williams / Pacel DATE: 3/10/21 TIME: 0551

ADDITIONAL COMMENTS:

TEMP In C

Received on (ice) (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: Ken Williams

DATE Signed: 3/9/21



Section A

Requested Client Information:
Company: Georgia Power - Coal Combustion Residuals
Address: 2460 Marner Road
Atlanta, GA 30309
Email: jadrnham@southarmon.com
Phone: (404)508-7239
Fac: Requested Due Date:

Section B

Requested Project Information:
Report To: Kristin Jurkha
Copy To: Geographic Contacts
Purchase Order #: SCS10040005
Project Name: Plant Bowen Ash Pond Scan
Project #:

Section C

Invoice Information:
Address:
Company Name:
Pace Project Manager: Delsy.MoDaniel@pacelabs.com
Pace Profile #: 315
Regulatory Agency: GA
State / Location:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample Ids must be unique	MATRIX Drying Water Water Waste Water Product Substrate Oil Wye Air Other Tissue	CODE DW WT WW P SL WL AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyzes Test	Y/N	Request Analytes Filtered (Y/N)	Residual Chlorine (Y/N)							
						DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	Metals 6020 App. IV	Fluoride	Radium 226, 228			
1	DUP-																									
2	DUP-																									
3	FBL 030924						3/9	3/9/24	12:24													X	X	X		
4	FBL-																									
5	EQBL 030924						EQ	3/9/24	16:12													X	X	X		
6	EQBL-																									
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS		RELAUNCHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		Yuan Williams / Pace		3/16/24		14:33		Yuan Williams / Pace		3/16/24		08:51			

SAMPLER NAME AND SIGNATURE: Yuan Williams

PRINT NAME OF SAMPLER: Yuan Williams

SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED: 3/9/24

TEMP in C

Received on ice (Y/N)

Cooler Sealed (Y/N)

Samples Intact (Y/N)



Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Mariner Road
Atlanta, GA 30339
Email: jbruham@scsflintco.com
Phone: (404)506-7239
Fac: [blank]
Requested Date: [blank]

Section B

Required Project Information:

Report To: Kristin Jurkko
Copy To: Geosynthetic Contacts
Purchase Order #: SCS10046006
Project Name: Plant Bowen Ash Pond Scan
Project #: [blank]

Section C

Invoice Information:

Attention: [blank]
Company Name: [blank]
Address: [blank]
Phone Quote: [blank]
Pace Project Manager: belsy.mocantelli@pacelabs.com
Pace Profile #: 315

Regulatory Agency: [blank]
State / Location: GA

ITEM #	MATRIX CODE (see veld codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)		
			DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	Analyses Test
1	BGWC-92															
2	BGWC-94B															
3	BGWC-95B															
4	BGWC-36B															
5	BGWC-37B															
6	BGWC-38B		5/16/24	1112												
7	BGWC-39															
8	BGWC-40															
9	BGWC-41B															
10	BGWC-42B															
11	BGWC-43B															
12	BGWC-44B															

MATRIX	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
Delong Water								
Water								
Wash Water								
Product								
Soil/Sed								
OC								
Wipe								
Air								
Other								
Tissue								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HOLD ON PANDA'SSES!	Kristin Jurkko / Pace	5/16/24	1433	Gene Williams / Pace	3/10/24	0851				

SAMPLER NAME AND SIGNATURE: [blank]
 POINT NAME OF SAMPLER: [blank]
 SIGNATURE OF SAMPLER: [blank]
 DATE SIGNED: 5/16/24



Section A
 Client Information:
 Company: Georgia Power - Coal Combustion Residues
 Address: 2480 Weber Road
 Atlanta, GA 30339

Section B
 Requested Project Information:
 Report To: Kristen Jurkko
 Copy To: Geosynthetic Contacts
 Purchase Order #: SC510046606
 Project Name: Plant Bowen Ash Pond
 Project #:

Section C
 Invoice Information:
 Attention: Company Name:
 Address:
 Peace Order:
 Peace Project Manager: belsv.miodaniel@pacelabs.com
 Peace Profile #: 315

Regulatory Agency
 State / Location
 CA

Requested Analytical Filtered (Y/N)
 Requested Date Date: Fax
 State / Location: CA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Metals 6020 App. IV (See List)	Fluoride	Radium 226, 228	Residual Chlorine (Y/N)
			DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						
1	BGWA-2																		
2	BGWA-29																		
3	BGWA-33		2/19/21	0942		1	3								X	X	X		7.73
4	BGWA-47B																		
5	BGWA-48B																		
6	BGWA-49B																		
7	BGWC-6																		
8	BGWC-9																		
9	BGWC-10																		
10	BGWC-12		2/19/21	1115		4	3								X	X	X		7.0
11	BGWC-14A																		
12	BGWC-16																		

ADDITIONAL COMMENTS: Will Walker | Resolve

REQUISITIONED BY / AFFILIATION: Will Walker | Resolve

DATE: 2/19/21

TIME: 1608

ACCEPTED BY / AFFILIATION: *[Signature]* / PAUCE 2/19/21 / 1608

DATE: 2/19/21

TIME: 1608

TEMP in C

Received on Ice (Y/N)

Catalog Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: KVIN STEPHENSON

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 2/19/21



Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Maier Road
 Atlanta, GA 30339

Section B
 Required Project Information:
 Report To: Kristin Jurkko
 Copy To: Geographic Contacts

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Paces Order:
 Paces Project Manager:
 Paces Profile #: 315

Regulatory Agency
 State / Location
 GA

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Maier Road
 Atlanta, GA 30339
 Email: jpbrenham@geopac.com
 Phone: (404)506-7228
 Fax:
 Requested Due Date:
 Section B
 Required Project Information:
 Report To: Kristin Jurkko
 Copy To: Geographic Contacts
 Purchase Order #: SCS10248926
 Project Name: Plant Bowen Ash Pond
 Project #:
 Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Paces Order:
 Paces Project Manager: betsy.mcdaniel@pacelabs.com
 Paces Profile #: 315
 Requested Analyte Filtered (Y/N)
 Regulatory Agency
 State / Location
 GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Diluting Water Water Waste Water Process Water Other	CODE DW WT WW P L WP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyses Test	Residual Chlorine (Y/N)				
				DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	Y/N		
1	BGWA-2																		
2	BGWA-29																		
3	BGWA-33																		
4	BGWA-47D																		
5	BGWA-48D																		
6	BGWC-7				2/18/21	1030													6.88
7	BGWC-8																		
8	BGWC-9																		
9	BGWC-10				2/15/21	1100													7.54
10	BGWC-12																		
11	BGWC-14A				2/18/21	1110													7.14
12	BGWC-16				2/18/21	1233													6.66

ADDITIONAL COMMENTS: Will Laaker / Resolute
 BEING REQUESTED BY / AFFILIATION: Will Laaker / Resolute
 DATE: 2/19/21
 TIME: 1608
 ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 2/18/21
 TIME: 1105

SAMPLER NAME AND SIGNATURE: *[Signature]*
 PRINT Name of SAMPLER: *[Signature]*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: 2/18/21

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



Section B
 Required Client Information:
 Report To: Kristen Jurinco
 Copy To: Geographic Contacts

Section C
 Invoice Information:
 Attention: Address:
 Company Name:
 Address:
 P.O. Box:
 P.O. Box Manager: betsy.mcdaniels@pacelabs.com
 P.O. Box Profile #: 315

Regulatory Agency
 State / Location
 GA

Client Information:
 Georgia Power - Coal Combustion Residuals
 2480 Mariner Road
 Atlanta, GA 30039
 Phone: (404)506-7239 Fax:
 Email: jlabraham@gaupower.com
 Project Name: Plant Bowen Ash Pond Scan
 Purchase Order #: SCS10348906
 Project #: Requested Analytes Filled (Y/N)
 Requested Due Date:

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyses Test	Y/N	Residual Chlorine (Y/N)	
			START	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	BGWC-912															
2	BGWC-34D															
3	BGWC-35D															
4	BGWC-36D															
5	BGWC-97D															
6	BGWC-38B															
7	BGWC-33															
8	BGWC-410															
9	BGWC-41D															
10	BGWC-42D															
11	BGWC-43B															
12	BGWC-44D															

MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Analyses Test	Y/N	Residual Chlorine (Y/N)
Drying Water	DW									
Water	WT									
Wet Water	WW									
Prepared	P									
Soil	SL									
Wipe	WP									
Air	AR									
Other	OT									
Tissue	TS									

ADDITIONAL COMMENTS: Will Locker / Resolute

REMOVED BY / AFFILIATION: Will Locker / Resolute

DATE: 2/19/21

TIME: 1608

ACCEPTED BY / AFFILIATION: [Signature]

DATE: 2/19/21

TIME: 1608

SAMPLE CONDITIONS: 7.64

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Will Locker

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 2/18/21

TEMP in C

Received on Ice (Y/N)

Cooler Sealed (Y/N)

Samples Intact (Y/N)

Page: 3 OF 3



Section B
 Requested Project Information:
 Report To: Kristian Jurkko
 Copy To: Geographic Contacts

Section C
 Invoice Information:
 Address:
 Company Name:
 Project Manager: betsy.medaniel@pacelabs.com
 Project Profile #: 315

Regulatory Agency
 State / Location
 GA

Page: 1 of

Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Marner Road, Atlanta, GA 30339
 Email: julienw@gepower.com
 Phone: (404)506-7299
 Fax:
 Project Name: Plant Bowen Ash Pond Scan
 Project #: 42523277

ID	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS								Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
						START	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		
1	BUP	Drinking Water	DW															
2	BUP	Wastewater	WW															
3	FBL 021921	Product	P			2/19/21	1420		4	1	3							
4	FBL	Substrate	SL															
5	EQBL 021921	Other	OT			2/19/21	1425		4	1	3							
6	EQBL	Other	OT															
7																		
8																		
9																		
0																		
1																		
2																		

ADDITIONAL COMMENTS: William Leeper / Resolute

RELINQUISHED BY / AFFILIATION: William Leeper / Resolute

DATE: 2/19/21

TIME: 1608

ACCEPTED BY / AFFILIATION: K. Medaniel / Pace

DATE: 2/19/21

TIME: 1608

SAMPLE CONDITIONS:

SAMPLER NAME AND SIGNATURE: KATH STEPHANSON

PRINT Name of SAMPLER: KATH STEPHANSON

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 2/19/21

TEMP in C:

Received on ice (Y/N):

Custody Sealed Cooler (Y/N):

Samples Intact (Y/N):



Section A

Requested Project Information:

Section C
Service Information:

Page: 2 of 4

Company: Georgia Power - Coal Consumption Receipts
Address: 2480 Water Road
Atlanta, GA 30339

Support Tr: Kitter, Jenkins
Cont. To: Governor's Office

Job Number:
Company Name:
Address:
City/State:
Phone Number: 315

Web: www.gepower.com
Phone: (404) 908-7299 Fax:

Purchase Order #: GCS1034006
Project Name: Park Bowen Ash Pond Seem
Project #:

Requester Agency:
State / Location: GA

Requested Analyte / Filtered (Y/N)
Residual Chlorine (Y/N)

Requested Analyte / Filtered (Y/N)
Residual Chlorine (Y/N)

Requested Analyte / Filtered (Y/N)
Residual Chlorine (Y/N)

ITEM #	SAMPLE ID One Chamber per box. (A-Z, 0-9) () Sample list must be unique	DATE	TIME	SAMPLE TEMP AT COLLECTION	COLLECTED		ANALYSIS TEST	Y/N	RESIDUAL CHLORINE (Y/N)
					START	TIME			
1	BGWC-17								
2	BGWC-18								
3	BGWC-19								
4	BGWC-20								
5	BGWC-21								
6	BGWC-22								
7	BGWC-23								
8	BGWC-24								
9	BGWC-25	1/23/21	1039						
10	BGWC-30								
11	BGWA-6								
12	BGWC-31								

MATRIX CODE (see field codes in IIR)
SAMPLE TYPE (D-DRAB C-COAP)
DATE
TIME
SAMPLE TEMP AT COLLECTION
OF CONTAINERS
Unpreserved
H2SO4
HNO3
HCl
NaOH
Na2S2O8
Methanol
Other
Analysis Test
Mn as 0020 App. IV
Fluoride
Radon 220, 224

Requested Analyte / Filtered (Y/N)
Residual Chlorine (Y/N)

Requested Analyte / Filtered (Y/N)
Residual Chlorine (Y/N)

REMEMBERED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE COMMENTS
Kevin Stephens	2/25/21	1336	Kevin Stephens	2/25/21	1337	PH: 7.44 ONLY

ADDITIONAL COMMENTS

REMEMBERED BY / AFFILIATION
DATE
TIME
ACCEPTED BY / AFFILIATION
DATE
TIME
SAMPLE COMMENTS

REMEMBERED BY / AFFILIATION
DATE
TIME
ACCEPTED BY / AFFILIATION
DATE
TIME
SAMPLE COMMENTS

ANALYST NAME AND SIGNATURE
PRINT Name of Sampler: WHI Tucker Kevin Stephens, Soe Beeth
SIGNATURE OF SAMPLER: [Signature]
DATE Signed: 2/25/21

ANALYST NAME AND SIGNATURE
PRINT Name of Sampler: WHI Tucker Kevin Stephens, Soe Beeth
SIGNATURE OF SAMPLER: [Signature]
DATE Signed: 2/25/21

ANALYST NAME AND SIGNATURE
PRINT Name of Sampler: WHI Tucker Kevin Stephens, Soe Beeth
SIGNATURE OF SAMPLER: [Signature]
DATE Signed: 2/25/21

TEMP IN C
Received on
Cooled
Sealed
Cooler
Sample
Intact (Y/N)

TEMP IN C
Received on
Cooled
Sealed
Cooler
Sample
Intact (Y/N)

TEMP IN C
Received on
Cooled
Sealed
Cooler
Sample
Intact (Y/N)

Bohler

Section B
 Required Project Information:
 Project No:
 Project Name:
 Project #:

Section C
 Service Information:
 Customer Name:
 Company Name:
 Project Manager:
 Phone/Fax #:

Client Information:
 Georgia Power - Coal Combustion Products
 2400 Walker Road
 Atlanta, GA 30339

Purchase Order # 628103-0008
 Plant Bowen Ash Pond Sca
 Project #:

Regulatory Agency:
 State/Location:
 CA

ITEM	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	K2S2O4	HNO3	HCl	NaOH	K2S2O8	Methanol	Other	Analyses Test	Y/N	Mobile 8020 App. IV	Florida	Radum 226, 228	Residual Chloride (Y/N)
1	BGWC-32																		
2	BGWC-34D																		
3	BGWC-35D	2/22/21	14:24	14.01	4	1	3												7.14 031
4	BGWC-36D	2/22/21	14:24	14.01	4	1	3												7.44 032
5	BGWC-37D	2/22/21	14:24	14.01	4	1	3												7.08 034
6	BGWC-38D	2/22/21	14:24	14.01	4	1	3												7.08 034
7	BGWC-39	2/22/21	14:24	14.01	4	1	3												7.08 034
8	BGWC-40	2/22/21	14:24	14.01	4	1	3												7.48 035
9	BGWC-41D	2/22/21	14:24	14.01	4	1	3												7.00 036
10	BGWC-42D	2/22/21	14:24	14.01	4	1	3												
11	BGWC-49B																		
12	BGWC-41D																		

ADDITIONAL COMMENTS	REWORKED BY / REVISION	DATE	TIME	ACCEPTED BY / REVISION	DATE	TIME	SAMPLE CONDITIONS
	<i>Kevin Stephens</i>	2/22/21	13:29	<i>Kevin Stephens</i>	2/22/21	09:34	
	<i>Rae Williams</i>	2/22/21	13:26	<i>Rae Williams</i>	2/22/21	13:26	

QUALIFIER NAME AND SIGNATURE:

PRINT Name of QUALIFIER:

SIGNATURE of QUALIFIER:

DATE:

TEMP in C:

Received on (Y/N)

Clipped Sealed Cooler (Y/N)

Samples fitted (Y/N)

Bob Anderson

Section A

Requested Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Haver Road
 Atlanta, GA 30339

Section B

Requested Project Information:

Project To: Robert Luffin
 Copy To: Geographic Corridor
 Purchase Order #: 6281004808
 Project Name: Plant Bowen Ash Pond Basin
 Project #:

Section C

Invoice Information:

Account:
 Company Name:
 Address:
 Price Quote:
 Price Project Manager:
 Price Invoice #: 315

Page: 1 of 4

Regulatory Agency:
 State / Location: GA

ITEM #	DESCRIPTION	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSED TEST	RESIDUAL CHOICE (Y/N)						
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol			Other					
1	DUP-3 One Container per box JAL DO 1-1 Samples for metal by analysis	2/22/21			4	1	3													
2	DUP-3	2/22/21			4	1	3													
3	FBL 622221	2/22/21	1611		4	1	3													
4	FBL	2/22/21	1614		4	1	3													
5	EQBL 022221																			
6	EQBL																			
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	REQ. INITIALED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Kenneth Stangor</i>	2/22/21	1359	<i>Bob Anderson</i>	2/22/21	1335	
	<i>Ryan Williams</i>			<i>Ryan Williams</i>	2/22/21	0934	

COLLECTOR NAME AND SIGNATURE: *Bob Anderson*

PROJECT NAME OF SAMPLE: *Plant Bowen Ash Pond Basin*

SIGNATURE OF SAMPLER: *Bob Anderson*

DATE SAMPLED: *2/22/21*

TEMP IN C: _____

Received on Ice (Y/N): _____

Cooling Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

May 13, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Dear Joju Abraham:

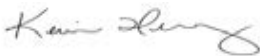
Enclosed are the analytical results for sample(s) received by the laboratory between March 26, 2021 and April 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529896001	BGWA-29	Water	03/23/21 13:30	03/26/21 09:20
92529896002	DUP-1	Water	03/23/21 00:00	03/26/21 09:20
92529896003	FB-1	Water	03/23/21 16:44	03/26/21 09:20
92529896004	BGWC-8	Water	03/24/21 13:00	03/26/21 09:20
92529896005	BGWC-9	Water	03/24/21 14:24	03/26/21 09:20
92529896006	BGWC-12	Water	03/24/21 15:22	03/26/21 09:20
92529896007	BGWC-14A	Water	03/24/21 16:27	03/26/21 09:20
92529896008	BGWC-16	Water	03/24/21 13:17	03/26/21 09:20
92529896009	BGWC-17	Water	03/24/21 14:27	03/26/21 09:20
92529896010	BGWC-18	Water	03/24/21 15:57	03/26/21 09:20
92529896011	FB-2	Water	03/24/21 16:22	03/26/21 09:20
92529896012	BGWA-47D	Water	03/25/21 16:03	03/26/21 09:20
92529896013	BGWA-48D	Water	03/25/21 11:36	03/26/21 09:20
92529896014	BGWC-30	Water	03/25/21 11:20	03/26/21 09:20
92529896015	BGWC-36D	Water	03/25/21 15:58	03/26/21 09:20
92529896016	FB-3	Water	03/25/21 16:30	03/26/21 09:20
92529896017	EB-1	Water	03/25/21 16:34	03/26/21 09:20
92529896018	BGWA-2	Water	03/26/21 10:35	03/26/21 16:32
92529896019	BGWC-19	Water	03/26/21 13:41	03/26/21 16:32
92529896020	BGWC-23	Water	03/26/21 11:49	03/26/21 16:32
92529896021	BGWC-24	Water	03/26/21 10:25	03/26/21 16:32
92529896022	BGWC-25	Water	03/26/21 12:23	03/26/21 16:32
92529896023	BGWC-35D	Water	03/26/21 14:02	03/26/21 16:32
92529896024	BGWC-37D	Water	03/26/21 12:41	03/26/21 16:32
92529896025	DUP-2	Water	03/26/21 00:00	03/26/21 16:32
92529896026	FB-4	Water	03/26/21 14:00	03/26/21 16:32
92529896027	BGWC-20	Water	03/29/21 16:03	03/31/21 09:38
92529896028	BGWC-21	Water	03/29/21 13:06	03/31/21 09:38
92529896029	BGWC-22	Water	03/29/21 11:52	03/31/21 09:38
92529896030	BGWC-31	Water	03/29/21 14:05	03/31/21 09:38
92529896031	BGWC-38D	Water	03/29/21 11:54	03/31/21 09:38
92529896032	BGWC-43D	Water	03/29/21 14:24	03/31/21 09:38
92529896033	FB-5	Water	03/29/21 15:36	03/31/21 09:38
92529896034	EB-2	Water	03/29/21 16:29	03/31/21 09:38
92529896035	BGWC-7	Water	03/30/21 09:35	03/31/21 09:38
92529896036	BGWC-10	Water	03/30/21 11:37	03/31/21 09:38
92529896037	BGWC-32	Water	03/30/21 12:31	03/31/21 09:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529896038	BGWC-34D	Water	03/30/21 15:02	03/31/21 09:38
92529896039	BGWC-40	Water	03/30/21 15:37	03/31/21 09:38
92529896040	BGWC-51	Water	03/30/21 14:34	03/31/21 09:38
92529896041	BGWC-52	Water	03/30/21 11:30	03/31/21 09:38
92529896042	DUP-3	Water	03/30/21 00:00	03/31/21 09:38
92529896043	FB-6	Water	03/30/21 16:38	03/31/21 09:38
92529896044	EB-3	Water	03/30/21 16:53	03/31/21 09:38
92529896045	BGWA-33	Water	04/01/21 09:45	04/02/21 10:36
92529896046	BGWC-42D	Water	04/01/21 11:05	04/02/21 10:36
92529896047	EB-5	Water	04/01/21 11:45	04/02/21 10:36
92529896048	FB-8	Water	04/01/21 11:50	04/02/21 10:36
92529896049	BGWA-6	Water	03/31/21 11:29	04/02/21 10:36
92529896050	BGWC-39	Water	03/31/21 10:02	04/02/21 10:36
92529896051	BGWC-41D	Water	03/31/21 13:52	04/02/21 10:36
92529896052	BGWC-44D	Water	03/31/21 14:17	04/02/21 10:36
92529896053	DUP-4	Water	03/31/21 00:00	04/02/21 10:36
92529896054	FB-7	Water	03/31/21 16:24	04/02/21 10:36
92529896055	EB-4	Water	03/31/21 16:28	04/02/21 10:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529896001	BGWA-29	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896002	DUP-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896003	FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896004	BGWC-8	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896005	BGWC-9	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896006	BGWC-12	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896007	BGWC-14A	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896008	BGWC-16	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896009	BGWC-17	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896010	BGWC-18	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896011	FB-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896012	BGWA-47D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896013	BGWA-48D	EPA 9315	CLA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529896014	BGWC-30	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896015	BGWC-36D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896016	FB-3	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896017	EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896018	BGWA-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896019	BGWC-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896020	BGWC-23	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896021	BGWC-24	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896022	BGWC-25	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896023	BGWC-35D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896024	BGWC-37D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896025	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529896026	FB-4	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896027	BGWC-20	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896028	BGWC-21	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896029	BGWC-22	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896030	BGWC-31	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896031	BGWC-38D	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896032	BGWC-43D	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896033	FB-5	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896034	EB-2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896035	BGWC-7	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896036	BGWC-10	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896037	BGWC-32	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529896038	BGWC-34D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92529896039	BGWC-40	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92529896040	BGWC-51	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92529896041	BGWC-52	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896042	DUP-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896043	FB-6	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896044	EB-3	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896045	BGWA-33	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896046	BGWC-42D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896047	EB-5	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896048	FB-8	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896049	BGWA-6	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896050	BGWC-39	EPA 9315	CLA	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529896051	BGWC-41D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896052	BGWC-44D	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529896053	DUP-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92529896054	FB-7	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529896055	EB-4	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896001	BGWA-29					
EPA 9315	Radium-226	0.113 ± 0.172 (0.368)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:87% T:NA 0.209 ± 0.469 (1.04)	pCi/L		04/15/21 14:56	
Total Radium Calculation	Total Radium	C:66% T:78% 0.322 ± 0.641 (1.41)	pCi/L		05/05/21 12:51	
92529896002	DUP-1					
EPA 9315	Radium-226	0.120 ± 0.189 (0.415)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:94% T:NA -0.0443 ± 0.387 (0.906)	pCi/L		04/15/21 14:55	
Total Radium Calculation	Total Radium	C:71% T:84% 0.120 ± 0.576 (1.32)	pCi/L		05/05/21 12:51	
92529896003	FB-1					
EPA 9315	Radium-226	0.111 ± 0.191 (0.430)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:94% T:NA 0.502 ± 0.443 (0.902)	pCi/L		04/15/21 14:55	
Total Radium Calculation	Total Radium	C:67% T:94% 0.613 ± 0.634 (1.33)	pCi/L		05/05/21 12:51	
92529896004	BGWC-8					
EPA 9315	Radium-226	0.360 ± 0.266 (0.440)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:89% T:NA 0.448 ± 0.444 (0.918)	pCi/L		04/15/21 14:55	
Total Radium Calculation	Total Radium	C:73% T:79% 0.808 ± 0.710 (1.36)	pCi/L		05/05/21 12:51	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896005	BGWC-9					
EPA 9315	Radium-226	0.251 ± 0.219 (0.372)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:88% T:NA 0.303 ± 0.413 (0.884)	pCi/L		04/15/21 14:55	
Total Radium Calculation	Total Radium	C:74% T:83% 0.554 ± 0.632 (1.26)	pCi/L		05/05/21 12:51	
92529896006	BGWC-12					
EPA 9315	Radium-226	0.0502 ± 0.178 (0.448)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:89% T:NA 0.319 ± 0.439 (0.942)	pCi/L		04/15/21 14:53	
Total Radium Calculation	Total Radium	C:74% T:84% 0.369 ± 0.617 (1.39)	pCi/L		05/05/21 12:51	
92529896007	BGWC-14A					
EPA 9315	Radium-226	0.467 ± 0.309 (0.485)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:82% T:NA 0.637 ± 0.584 (1.18)	pCi/L		04/19/21 18:27	
Total Radium Calculation	Total Radium	C:72% T:76% 1.10 ± 0.893 (1.67)	pCi/L		05/05/21 12:51	
92529896008	BGWC-16					
EPA 9315	Radium-226	0.295 ± 0.232 (0.370)	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	C:85% T:NA 0.625 ± 0.494 (0.959)	pCi/L		04/19/21 18:27	
Total Radium Calculation	Total Radium	C:72% T:79% 0.920 ± 0.726 (1.33)	pCi/L		05/05/21 12:51	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
 Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896009	BGWC-17					
EPA 9315	Radium-226	0.0988 ± 0.185 (0.422) C:86% T:NA	pCi/L		04/13/21 08:09	
EPA 9320	Radium-228	0.292 ± 0.579 (1.28) C:70% T:70%	pCi/L		04/19/21 18:27	
Total Radium Calculation	Total Radium	0.391 ± 0.764 (1.70)	pCi/L		05/05/21 13:00	
92529896010	BGWC-18					
EPA 9315	Radium-226	0.272 ± 0.302 (0.625) C:86% T:NA	pCi/L		04/13/21 09:21	
EPA 9320	Radium-228	0.934 ± 0.611 (1.16) C:72% T:80%	pCi/L		04/19/21 18:27	
Total Radium Calculation	Total Radium	1.21 ± 0.913 (1.79)	pCi/L		05/05/21 13:00	
92529896011	FB-2					
EPA 9315	Radium-226	-0.0128 ± 0.387 (0.973) C:89% T:NA	pCi/L		04/13/21 07:22	
EPA 9320	Radium-228	0.770 ± 0.570 (1.12) C:75% T:83%	pCi/L		04/19/21 18:27	
Total Radium Calculation	Total Radium	0.770 ± 0.957 (2.09)	pCi/L		05/05/21 13:00	
92529896012	BGWA-47D					
EPA 9315	Radium-226	-0.0467 ± 0.312 (0.825) C:83% T:NA	pCi/L		04/13/21 07:23	
EPA 9320	Radium-228	1.15 ± 0.731 (1.40) C:72% T:84%	pCi/L		04/19/21 19:14	
Total Radium Calculation	Total Radium	1.15 ± 1.04 (2.23)	pCi/L		05/05/21 13:00	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896013	BGWA-48D					
EPA 9315	Radium-226	0.234 ± 0.268 (0.548)	pCi/L		04/13/21 07:23	
EPA 9320	Radium-228	C:86% T:NA 0.843 ± 0.596 (1.15)	pCi/L		04/19/21 19:14	
Total Radium Calculation	Total Radium	C:70% T:87% 1.08 ± 0.864 (1.70)	pCi/L		05/05/21 13:00	
92529896014	BGWC-30					
EPA 9315	Radium-226	0.431 ± 0.181 (0.278)	pCi/L		04/12/21 17:51	
EPA 9320	Radium-228	C:91% T:NA 1.05 ± 0.603 (1.10)	pCi/L		04/19/21 19:14	
Total Radium Calculation	Total Radium	C:72% T:91% 1.48 ± 0.784 (1.38)	pCi/L		05/05/21 13:00	
92529896015	BGWC-36D					
EPA 9315	Radium-226	0.581 ± 0.315 (0.386)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:80% T:NA 1.85 ± 0.889 (1.56)	pCi/L		04/19/21 19:15	
Total Radium Calculation	Total Radium	C:73% T:76% 2.43 ± 1.20 (1.95)	pCi/L		05/05/21 13:00	
92529896016	FB-3					
EPA 9315	Radium-226	0.120 ± 0.189 (0.414)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:91% T:NA 0.682 ± 0.497 (0.969)	pCi/L		04/22/21 11:40	
Total Radium Calculation	Total Radium	C:63% T:77% 0.802 ± 0.686 (1.38)	pCi/L		05/05/21 13:00	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896017	EB-1					
EPA 9315	Radium-226	-0.0991 ± 0.114 (0.437)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:87% T:NA 1.50 ± 0.774 (1.37)	pCi/L		04/19/21 19:15	
Total Radium Calculation	Total Radium	C:70% T:79% 1.50 ± 0.888 (1.81)	pCi/L		05/05/21 13:00	
92529896018	BGWA-2					
EPA 9315	Radium-226	0.305 ± 0.253 (0.444)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:85% T:NA 0.727 ± 0.689 (1.41)	pCi/L		04/19/21 19:15	
Total Radium Calculation	Total Radium	C:73% T:78% 1.03 ± 0.942 (1.85)	pCi/L		05/05/21 13:00	
92529896019	BGWC-19					
EPA 9315	Radium-226	0.261 ± 0.227 (0.387)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:82% T:NA 0.587 ± 0.700 (1.48)	pCi/L		04/19/21 19:15	
Total Radium Calculation	Total Radium	C:75% T:81% 0.848 ± 0.927 (1.87)	pCi/L		05/05/21 13:00	
92529896020	BGWC-23					
EPA 9315	Radium-226	0.712 ± 0.353 (0.460)	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	C:84% T:NA 0.325 ± 0.657 (1.45)	pCi/L		04/19/21 19:16	
Total Radium Calculation	Total Radium	C:69% T:79% 1.04 ± 1.01 (1.91)	pCi/L		05/05/21 13:00	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896021	BGWC-24					
EPA 9315	Radium-226	1.52 ± 0.516 (0.461) C:84% T:NA	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	1.39 ± 0.712 (1.26) C:71% T:84%	pCi/L		04/19/21 19:16	
Total Radium Calculation	Total Radium	2.91 ± 1.23 (1.72)	pCi/L		05/05/21 13:00	
92529896022	BGWC-25					
EPA 9315	Radium-226	0.134 ± 0.169 (0.340) C:91% T:NA	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	-0.0544 ± 0.430 (1.02) C:73% T:89%	pCi/L		04/19/21 19:16	
Total Radium Calculation	Total Radium	0.134 ± 0.599 (1.36)	pCi/L		05/05/21 13:00	
92529896023	BGWC-35D					
EPA 9315	Radium-226	1.40 ± 0.472 (0.394) C:90% T:NA	pCi/L		04/13/21 09:44	
EPA 9320	Radium-228	0.996 ± 0.601 (1.15) C:73% T:84%	pCi/L		04/19/21 16:13	
Total Radium Calculation	Total Radium	2.40 ± 1.07 (1.54)	pCi/L		05/05/21 13:00	
92529896024	BGWC-37D					
EPA 9315	Radium-226	1.22 ± 0.538 (0.816) C:79% T:NA	pCi/L		04/13/21 09:21	
EPA 9320	Radium-228	1.93 ± 0.751 (1.20) C:68% T:77%	pCi/L		04/19/21 16:13	
Total Radium Calculation	Total Radium	3.15 ± 1.29 (2.02)	pCi/L		05/05/21 13:00	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896025	DUP-2					
EPA 9315	Radium-226	1.17 ± 0.506 (0.727) C:84% T:NA	pCi/L		04/13/21 07:45	
EPA 9320	Radium-228	1.16 ± 0.704 (1.35) C:63% T:79%	pCi/L		04/19/21 16:13	
Total Radium Calculation	Total Radium	2.33 ± 1.21 (2.08)	pCi/L		05/05/21 13:00	
92529896026	FB-4					
EPA 9315	Radium-226	-0.0201 ± 0.254 (0.672) C:89% T:NA	pCi/L		04/13/21 07:45	
EPA 9320	Radium-228	-0.220 ± 0.568 (1.33) C:68% T:85%	pCi/L		04/19/21 16:13	
Total Radium Calculation	Total Radium	0.000 ± 0.822 (2.00)	pCi/L		05/05/21 13:00	
92529896027	BGWC-20					
EPA 9315	Radium-226	0.431 ± 0.262 (0.356) C:88% T:NA	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	1.06 ± 0.572 (1.03) C:65% T:76%	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	1.49 ± 0.834 (1.39)	pCi/L		05/04/21 17:18	
92529896028	BGWC-21					
EPA 9315	Radium-226	-0.0118 ± 0.165 (0.473) C:79% T:NA	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	0.471 ± 0.558 (1.18) C:65% T:67%	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	0.471 ± 0.723 (1.65)	pCi/L		05/04/21 17:18	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896029	BGWC-22					
EPA 9315	Radium-226	2.16 ± 0.616 (0.507)	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	C:89% T:NA 1.94 ± 0.771 (1.23)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:60% T:74% 4.10 ± 1.39 (1.74)	pCi/L		05/04/21 17:18	
92529896030	BGWC-31					
EPA 9315	Radium-226	0.895 ± 0.420 (0.519)	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	C:70% T:NA 0.737 ± 0.512 (0.991)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:63% T:83% 1.63 ± 0.932 (1.51)	pCi/L		05/04/21 17:18	
92529896031	BGWC-38D					
EPA 9315	Radium-226	2.10 ± 0.607 (0.370)	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	C:79% T:NA 1.44 ± 0.660 (1.10)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:59% T:75% 3.54 ± 1.27 (1.47)	pCi/L		05/04/21 17:18	
92529896032	BGWC-43D					
EPA 9315	Radium-226	1.01 ± 0.431 (0.465)	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	C:72% T:NA 0.612 ± 0.672 (1.40)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:52% T:66% 1.62 ± 1.10 (1.87)	pCi/L		05/04/21 17:18	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896033	FB-5					
EPA 9315	Radium-226	0.171 ± 0.387 (0.900)	pCi/L		04/14/21 07:38	
EPA 9320	Radium-228	C:93% T:NA -0.265 ± 0.417 (1.02)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:67% T:79% 0.171 ± 0.804 (1.92)	pCi/L		05/04/21 17:18	
92529896034	EB-2					
EPA 9315	Radium-226	-0.131 ± 0.250 (0.713)	pCi/L		04/14/21 07:11	
EPA 9320	Radium-228	C:95% T:NA 0.152 ± 0.381 (0.850)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:73% T:82% 0.152 ± 0.631 (1.56)	pCi/L		05/04/21 17:18	
92529896035	BGWC-7					
EPA 9315	Radium-226	0.817 ± 0.395 (0.540)	pCi/L		04/14/21 07:11	
EPA 9320	Radium-228	C:82% T:NA 0.592 ± 0.522 (1.06)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:65% T:78% 1.41 ± 0.917 (1.60)	pCi/L		05/04/21 17:18	
92529896036	BGWC-10					
EPA 9315	Radium-226	0.847 ± 0.468 (0.760)	pCi/L		04/14/21 07:11	
EPA 9320	Radium-228	C:71% T:NA 0.658 ± 0.621 (1.28)	pCi/L		04/20/21 15:26	
Total Radium Calculation	Total Radium	C:64% T:72% 1.51 ± 1.09 (2.04)	pCi/L		05/04/21 17:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896037	BGWC-32					
EPA 9315	Radium-226	0.756 ± 0.403 (0.633)	pCi/L		04/14/21 07:11	
EPA 9320	Radium-228	C:78% T:NA 1.28 ± 0.693 (1.29)	pCi/L		04/20/21 15:22	
Total Radium Calculation	Total Radium	C:68% T:75% 2.04 ± 1.10 (1.92)	pCi/L		05/04/21 17:18	
92529896038	BGWC-34D					
EPA 9315	Radium-226	1.05 ± 0.465 (0.590)	pCi/L		04/14/21 07:12	
EPA 9320	Radium-228	C:72% T:NA 0.296 ± 0.477 (1.04)	pCi/L		04/20/21 15:22	
Total Radium Calculation	Total Radium	C:67% T:85% 1.35 ± 0.942 (1.63)	pCi/L		05/04/21 17:18	
92529896039	BGWC-40					
EPA 9315	Radium-226	0.460 ± 0.394 (0.784)	pCi/L		04/14/21 07:11	
EPA 9320	Radium-228	C:81% T:NA 0.366 ± 0.597 (1.30)	pCi/L		04/20/21 15:22	
Total Radium Calculation	Total Radium	C:66% T:76% 0.826 ± 0.991 (2.08)	pCi/L		05/04/21 17:18	
92529896040	BGWC-51					
EPA 9315	Radium-226	0.852 ± 0.420 (0.632)	pCi/L		04/14/21 07:22	
EPA 9320	Radium-228	C:82% T:NA -0.465 ± 0.623 (1.49)	pCi/L		04/20/21 15:22	
Total Radium Calculation	Total Radium	C:64% T:76% 0.852 ± 1.04 (2.12)	pCi/L		05/04/21 17:18	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896041	BGWC-52					
EPA 9315	Radium-226	0.530 ± 0.447 (0.892)	pCi/L		04/14/21 07:22	
EPA 9320	Radium-228	C:74% T:NA 1.13 ± 0.502 (0.824)	pCi/L		05/05/21 14:32	
Total Radium Calculation	Total Radium	C:71% T:85% 1.66 ± 0.949 (1.72)	pCi/L		05/06/21 13:03	
92529896042	DUP-3					
EPA 9315	Radium-226	0.620 ± 0.395 (0.694)	pCi/L		04/14/21 07:22	
EPA 9320	Radium-228	C:82% T:NA 0.204 ± 0.400 (0.881)	pCi/L		05/05/21 14:32	
Total Radium Calculation	Total Radium	C:70% T:81% 0.824 ± 0.795 (1.58)	pCi/L		05/06/21 13:03	
92529896043	FB-6					
EPA 9315	Radium-226	0.0761 ± 0.283 (0.689)	pCi/L		04/14/21 07:22	
EPA 9320	Radium-228	C:84% T:NA 0.215 ± 0.411 (0.904)	pCi/L		05/05/21 14:32	
Total Radium Calculation	Total Radium	C:69% T:83% 0.291 ± 0.694 (1.59)	pCi/L		05/06/21 13:03	
92529896044	EB-3					
EPA 9315	Radium-226	0.342 ± 0.426 (0.927)	pCi/L		04/14/21 07:23	
EPA 9320	Radium-228	C:88% T:NA 0.431 ± 0.365 (0.729)	pCi/L		05/05/21 14:34	
Total Radium Calculation	Total Radium	C:72% T:87% 0.773 ± 0.791 (1.66)	pCi/L		05/06/21 13:03	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896045	BGWA-33					
EPA 9315	Radium-226	0.580 ± 0.264 (0.355) C:82% T:NA	pCi/L		04/27/21 09:04	
EPA 9320	Radium-228	-0.288 ± 0.327 (0.817) C:74% T:87%	pCi/L		05/05/21 14:34	
Total Radium Calculation	Total Radium	0.580 ± 0.591 (1.17)	pCi/L		05/06/21 13:03	
92529896046	BGWC-42D					
EPA 9315	Radium-226	0.0992 ± 0.123 (0.250) C:87% T:NA	pCi/L		04/27/21 09:04	
EPA 9320	Radium-228	0.362 ± 0.381 (0.791) C:73% T:80%	pCi/L		05/05/21 14:34	
Total Radium Calculation	Total Radium	0.461 ± 0.504 (1.04)	pCi/L		05/06/21 13:03	
92529896047	EB-5					
EPA 9315	Radium-226	0.0575 ± 0.0953 (0.210) C:91% T:NA	pCi/L		04/27/21 09:05	
EPA 9320	Radium-228	-0.265 ± 0.409 (0.994) C:71% T:79%	pCi/L		05/05/21 14:34	
Total Radium Calculation	Total Radium	0.0575 ± 0.504 (1.20)	pCi/L		05/06/21 13:03	
92529896048	FB-8					
EPA 9315	Radium-226	-0.0420 ± 0.0532 (0.217) C:92% T:NA	pCi/L		04/27/21 09:05	
EPA 9320	Radium-228	0.661 ± 0.411 (0.776) C:71% T:92%	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	0.661 ± 0.464 (0.993)	pCi/L		05/06/21 13:03	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896049	BGWA-6					
EPA 9315	Radium-226	0.161 ± 0.154 (0.298)	pCi/L		04/27/21 09:05	
EPA 9320	Radium-228	C:92% T:NA 0.140 ± 0.306 (0.679)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:72% T:89% 0.301 ± 0.460 (0.977)	pCi/L		05/06/21 13:03	
92529896050	BGWC-39					
EPA 9315	Radium-226	0.176 ± 0.141 (0.240)	pCi/L		04/27/21 09:07	
EPA 9320	Radium-228	C:91% T:NA 0.0751 ± 0.278 (0.635)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:71% T:89% 0.251 ± 0.419 (0.875)	pCi/L		05/06/21 13:03	
92529896051	BGWC-41D					
EPA 9315	Radium-226	0.748 ± 0.282 (0.288)	pCi/L		04/27/21 09:10	
EPA 9320	Radium-228	C:86% T:NA 0.256 ± 0.319 (0.674)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:70% T:87% 1.00 ± 0.601 (0.962)	pCi/L		05/06/21 13:03	
92529896052	BGWC-44D					
EPA 9315	Radium-226	0.141 ± 0.131 (0.236)	pCi/L		04/27/21 09:13	
EPA 9320	Radium-228	C:88% T:NA 0.376 ± 0.361 (0.738)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:69% T:87% 0.517 ± 0.492 (0.974)	pCi/L		05/06/21 13:03	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529896053	DUP-4					
EPA 9315	Radium-226	0.139 ± 0.128 (0.229)	pCi/L		04/27/21 09:40	
EPA 9320	Radium-228	C:88% T:NA -0.00504 ± 0.302 (0.709)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:68% T:90% 0.139 ± 0.430 (0.938)	pCi/L		05/06/21 13:03	
92529896054	FB-7					
EPA 9315	Radium-226	0.0948 ± 0.119 (0.245)	pCi/L		04/27/21 09:40	
EPA 9320	Radium-228	C:90% T:NA 0.427 ± 0.347 (0.682)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:72% T:85% 0.522 ± 0.466 (0.927)	pCi/L		05/06/21 13:03	
92529896055	EB-4					
EPA 9315	Radium-226	-0.00566 ± 0.0948 (0.271)	pCi/L		04/27/21 09:40	
EPA 9320	Radium-228	C:93% T:NA 0.238 ± 0.349 (0.750)	pCi/L		05/05/21 14:35	
Total Radium Calculation	Total Radium	C:73% T:86% 0.238 ± 0.444 (1.02)	pCi/L		05/06/21 13:03	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: **BGWA-29** Lab ID: **92529896001** Collected: 03/23/21 13:30 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.113 ± 0.172 (0.368) C:87% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.209 ± 0.469 (1.04) C:66% T:78%	pCi/L	04/15/21 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.322 ± 0.641 (1.41)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: DUP-1 **Lab ID: 92529896002** Collected: 03/23/21 00:00 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.120 ± 0.189 (0.415) C:94% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0443 ± 0.387 (0.906) C:71% T:84%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.120 ± 0.576 (1.32)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-1 **Lab ID: 92529896003** Collected: 03/23/21 16:44 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.111 ± 0.191 (0.430) C:94% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.502 ± 0.443 (0.902) C:67% T:94%	pCi/L	04/15/21 14:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.613 ± 0.634 (1.33)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-8 **Lab ID: 92529896004** Collected: 03/24/21 13:00 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.360 ± 0.266 (0.440) C:89% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.448 ± 0.444 (0.918) C:73% T:79%	pCi/L	04/15/21 14:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.808 ± 0.710 (1.36)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-9 **Lab ID: 92529896005** Collected: 03/24/21 14:24 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.251 ± 0.219 (0.372) C:88% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.303 ± 0.413 (0.884) C:74% T:83%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.554 ± 0.632 (1.26)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-12 **Lab ID: 92529896006** Collected: 03/24/21 15:22 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0502 ± 0.178 (0.448) C:89% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.319 ± 0.439 (0.942) C:74% T:84%	pCi/L	04/15/21 14:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.369 ± 0.617 (1.39)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-14A Lab ID: 92529896007 Collected: 03/24/21 16:27 Received: 03/26/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.467 ± 0.309 (0.485) C:82% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.637 ± 0.584 (1.18) C:72% T:76%	pCi/L	04/19/21 18:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.893 (1.67)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-16 **Lab ID: 92529896008** Collected: 03/24/21 13:17 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.295 ± 0.232 (0.370) C:85% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.625 ± 0.494 (0.959) C:72% T:79%	pCi/L	04/19/21 18:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.920 ± 0.726 (1.33)	pCi/L	05/05/21 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-17 **Lab ID: 92529896009** Collected: 03/24/21 14:27 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0988 ± 0.185 (0.422) C:86% T:NA	pCi/L	04/13/21 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.292 ± 0.579 (1.28) C:70% T:70%	pCi/L	04/19/21 18:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.391 ± 0.764 (1.70)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-18 **Lab ID: 92529896010** Collected: 03/24/21 15:57 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.272 ± 0.302 (0.625) C:86% T:NA	pCi/L	04/13/21 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.934 ± 0.611 (1.16) C:72% T:80%	pCi/L	04/19/21 18:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.21 ± 0.913 (1.79)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-2 Lab ID: 92529896011 Collected: 03/24/21 16:22 Received: 03/26/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0128 ± 0.387 (0.973) C:89% T:NA	pCi/L	04/13/21 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.770 ± 0.570 (1.12) C:75% T:83%	pCi/L	04/19/21 18:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.770 ± 0.957 (2.09)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-47D Lab ID: 92529896012 Collected: 03/25/21 16:03 Received: 03/26/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0467 ± 0.312 (0.825) C:83% T:NA	pCi/L	04/13/21 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.15 ± 0.731 (1.40) C:72% T:84%	pCi/L	04/19/21 19:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 1.04 (2.23)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-48D Lab ID: 92529896013 Collected: 03/25/21 11:36 Received: 03/26/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.234 ± 0.268 (0.548) C:86% T:NA	pCi/L	04/13/21 07:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.843 ± 0.596 (1.15) C:70% T:87%	pCi/L	04/19/21 19:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08 ± 0.864 (1.70)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: **BGWC-30** Lab ID: **92529896014** Collected: 03/25/21 11:20 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.431 ± 0.181 (0.278) C:91% T:NA	pCi/L	04/12/21 17:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.05 ± 0.603 (1.10) C:72% T:91%	pCi/L	04/19/21 19:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.48 ± 0.784 (1.38)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-36D Lab ID: 92529896015 Collected: 03/25/21 15:58 Received: 03/26/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.581 ± 0.315 (0.386) C:80% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.85 ± 0.889 (1.56) C:73% T:76%	pCi/L	04/19/21 19:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.43 ± 1.20 (1.95)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-3 **Lab ID: 92529896016** Collected: 03/25/21 16:30 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.120 ± 0.189 (0.414) C:91% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.682 ± 0.497 (0.969) C:63% T:77%	pCi/L	04/22/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.802 ± 0.686 (1.38)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: EB-1 **Lab ID: 92529896017** Collected: 03/25/21 16:34 Received: 03/26/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0991 ± 0.114 (0.437) C:87% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.50 ± 0.774 (1.37) C:70% T:79%	pCi/L	04/19/21 19:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.50 ± 0.888 (1.81)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWA-2 **Lab ID: 92529896018** Collected: 03/26/21 10:35 Received: 03/26/21 16:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.305 ± 0.253 (0.444) C:85% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.727 ± 0.689 (1.41) C:73% T:78%	pCi/L	04/19/21 19:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03 ± 0.942 (1.85)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-19 **Lab ID: 92529896019** Collected: 03/26/21 13:41 Received: 03/26/21 16:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.261 ± 0.227 (0.387) C:82% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.587 ± 0.700 (1.48) C:75% T:81%	pCi/L	04/19/21 19:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.848 ± 0.927 (1.87)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-23 Lab ID: 92529896020 Collected: 03/26/21 11:49 Received: 03/26/21 16:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.712 ± 0.353 (0.460) C:84% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.325 ± 0.657 (1.45) C:69% T:79%	pCi/L	04/19/21 19:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.04 ± 1.01 (1.91)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-24 **Lab ID: 92529896021** Collected: 03/26/21 10:25 Received: 03/26/21 16:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.52 ± 0.516 (0.461) C:84% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.712 (1.26) C:71% T:84%	pCi/L	04/19/21 19:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.91 ± 1.23 (1.72)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-25 Lab ID: 92529896022 Collected: 03/26/21 12:23 Received: 03/26/21 16:32 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.134 ± 0.169 (0.340) C:91% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0544 ± 0.430 (1.02) C:73% T:89%	pCi/L	04/19/21 19:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.134 ± 0.599 (1.36)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-35D Lab ID: 92529896023 Collected: 03/26/21 14:02 Received: 03/26/21 16:32 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.40 ± 0.472 (0.394) C:90% T:NA	pCi/L	04/13/21 09:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.996 ± 0.601 (1.15) C:73% T:84%	pCi/L	04/19/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.40 ± 1.07 (1.54)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-37D Lab ID: 92529896024 Collected: 03/26/21 12:41 Received: 03/26/21 16:32 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.22 ± 0.538 (0.816) C:79% T:NA	pCi/L	04/13/21 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.93 ± 0.751 (1.20) C:68% T:77%	pCi/L	04/19/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.15 ± 1.29 (2.02)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: DUP-2 **Lab ID: 92529896025** Collected: 03/26/21 00:00 Received: 03/26/21 16:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.17 ± 0.506 (0.727) C:84% T:NA	pCi/L	04/13/21 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.16 ± 0.704 (1.35) C:63% T:79%	pCi/L	04/19/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.33 ± 1.21 (2.08)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-4 **Lab ID: 92529896026** Collected: 03/26/21 14:00 Received: 03/26/21 16:32 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0201 ± 0.254 (0.672) C:89% T:NA	pCi/L	04/13/21 07:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.220 ± 0.568 (1.33) C:68% T:85%	pCi/L	04/19/21 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.822 (2.00)	pCi/L	05/05/21 13:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-20 Lab ID: 92529896027 Collected: 03/29/21 16:03 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.431 ± 0.262 (0.356) C:88% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.06 ± 0.572 (1.03) C:65% T:76%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.49 ± 0.834 (1.39)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-21 Lab ID: 92529896028 Collected: 03/29/21 13:06 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0118 ± 0.165 (0.473) C:79% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.471 ± 0.558 (1.18) C:65% T:67%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.471 ± 0.723 (1.65)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-22 Lab ID: 92529896029 Collected: 03/29/21 11:52 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	2.16 ± 0.616 (0.507) C:89% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.94 ± 0.771 (1.23) C:60% T:74%	pCi/L	04/20/21 15:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	4.10 ± 1.39 (1.74)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-31 **Lab ID: 92529896030** Collected: 03/29/21 14:05 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.895 ± 0.420 (0.519) C:70% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.737 ± 0.512 (0.991) C:63% T:83%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.63 ± 0.932 (1.51)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-38D Lab ID: 92529896031 Collected: 03/29/21 11:54 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	2.10 ± 0.607 (0.370) C:79% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.44 ± 0.660 (1.10) C:59% T:75%	pCi/L	04/20/21 15:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.54 ± 1.27 (1.47)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-43D **Lab ID: 92529896032** Collected: 03/29/21 14:24 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.01 ± 0.431 (0.465) C:72% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.612 ± 0.672 (1.40) C:52% T:66%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.62 ± 1.10 (1.87)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-5 **Lab ID: 92529896033** Collected: 03/29/21 15:36 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.171 ± 0.387 (0.900) C:93% T:NA	pCi/L	04/14/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.265 ± 0.417 (1.02) C:67% T:79%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.171 ± 0.804 (1.92)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: EB-2 **Lab ID: 92529896034** Collected: 03/29/21 16:29 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.131 ± 0.250 (0.713) C:95% T:NA	pCi/L	04/14/21 07:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.152 ± 0.381 (0.850) C:73% T:82%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.152 ± 0.631 (1.56)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-7 **Lab ID: 92529896035** Collected: 03/30/21 09:35 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.817 ± 0.395 (0.540) C:82% T:NA	pCi/L	04/14/21 07:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.592 ± 0.522 (1.06) C:65% T:78%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 0.917 (1.60)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWC-10 **Lab ID: 92529896036** Collected: 03/30/21 11:37 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.847 ± 0.468 (0.760) C:71% T:NA	pCi/L	04/14/21 07:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.658 ± 0.621 (1.28) C:64% T:72%	pCi/L	04/20/21 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.51 ± 1.09 (2.04)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-32 Lab ID: 92529896037 Collected: 03/30/21 12:31 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.756 ± 0.403 (0.633) C:78% T:NA	pCi/L	04/14/21 07:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.28 ± 0.693 (1.29) C:68% T:75%	pCi/L	04/20/21 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.04 ± 1.10 (1.92)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-34D Lab ID: 92529896038 Collected: 03/30/21 15:02 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.05 ± 0.465 (0.590) C:72% T:NA	pCi/L	04/14/21 07:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.296 ± 0.477 (1.04) C:67% T:85%	pCi/L	04/20/21 15:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.35 ± 0.942 (1.63)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-40 Lab ID: 92529896039 Collected: 03/30/21 15:37 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.460 ± 0.394 (0.784) C:81% T:NA	pCi/L	04/14/21 07:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.366 ± 0.597 (1.30) C:66% T:76%	pCi/L	04/20/21 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.826 ± 0.991 (2.08)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-51 Lab ID: 92529896040 Collected: 03/30/21 14:34 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.852 ± 0.420 (0.632) C:82% T:NA	pCi/L	04/14/21 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.465 ± 0.623 (1.49) C:64% T:76%	pCi/L	04/20/21 15:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.852 ± 1.04 (2.12)	pCi/L	05/04/21 17:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-52 Lab ID: 92529896041 Collected: 03/30/21 11:30 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.530 ± 0.447 (0.892) C:74% T:NA	pCi/L	04/14/21 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.13 ± 0.502 (0.824) C:71% T:85%	pCi/L	05/05/21 14:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.66 ± 0.949 (1.72)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DUP-3 Lab ID: 92529896042 Collected: 03/30/21 00:00 Received: 03/31/21 09:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.620 ± 0.395 (0.694) C:82% T:NA	pCi/L	04/14/21 07:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.204 ± 0.400 (0.881) C:70% T:81%	pCi/L	05/05/21 14:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.824 ± 0.795 (1.58)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-6 **Lab ID: 92529896043** Collected: 03/30/21 16:38 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0761 ± 0.283 (0.689) C:84% T:NA	pCi/L	04/14/21 07:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.215 ± 0.411 (0.904) C:69% T:83%	pCi/L	05/05/21 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.291 ± 0.694 (1.59)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: EB-3 **Lab ID: 92529896044** Collected: 03/30/21 16:53 Received: 03/31/21 09:38 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.342 ± 0.426 (0.927) C:88% T:NA	pCi/L	04/14/21 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.431 ± 0.365 (0.729) C:72% T:87%	pCi/L	05/05/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.773 ± 0.791 (1.66)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWA-33 Lab ID: 92529896045 Collected: 04/01/21 09:45 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.580 ± 0.264 (0.355) C:82% T:NA	pCi/L	04/27/21 09:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.288 ± 0.327 (0.817) C:74% T:87%	pCi/L	05/05/21 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.580 ± 0.591 (1.17)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-42D Lab ID: 92529896046 Collected: 04/01/21 11:05 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0992 ± 0.123 (0.250) C:87% T:NA	pCi/L	04/27/21 09:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.362 ± 0.381 (0.791) C:73% T:80%	pCi/L	05/05/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.461 ± 0.504 (1.04)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: EB-5 **Lab ID: 92529896047** Collected: 04/01/21 11:45 Received: 04/02/21 10:36 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0575 ± 0.0953 (0.210) C:91% T:NA	pCi/L	04/27/21 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.265 ± 0.409 (0.994) C:71% T:79%	pCi/L	05/05/21 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0575 ± 0.504 (1.20)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-8 **Lab ID: 92529896048** Collected: 04/01/21 11:50 Received: 04/02/21 10:36 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0420 ± 0.0532 (0.217) C:92% T:NA	pCi/L	04/27/21 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.661 ± 0.411 (0.776) C:71% T:92%	pCi/L	05/05/21 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.661 ± 0.464 (0.993)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: BGWA-6 **Lab ID: 92529896049** Collected: 03/31/21 11:29 Received: 04/02/21 10:36 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.161 ± 0.154 (0.298) C:92% T:NA	pCi/L	04/27/21 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.140 ± 0.306 (0.679) C:72% T:89%	pCi/L	05/05/21 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.301 ± 0.460 (0.977)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-39 Lab ID: 92529896050 Collected: 03/31/21 10:02 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.176 ± 0.141 (0.240) C:91% T:NA	pCi/L	04/27/21 09:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0751 ± 0.278 (0.635) C:71% T:89%	pCi/L	05/05/21 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.251 ± 0.419 (0.875)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-41D Lab ID: 92529896051 Collected: 03/31/21 13:52 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.748 ± 0.282 (0.288) C:86% T:NA	pCi/L	04/27/21 09:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.256 ± 0.319 (0.674) C:70% T:87%	pCi/L	05/05/21 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.00 ± 0.601 (0.962)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-44D Lab ID: 92529896052 Collected: 03/31/21 14:17 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.141 ± 0.131 (0.236) C:88% T:NA	pCi/L	04/27/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.376 ± 0.361 (0.738) C:69% T:87%	pCi/L	05/05/21 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.517 ± 0.492 (0.974)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: DUP-4 Lab ID: 92529896053 Collected: 03/31/21 00:00 Received: 04/02/21 10:36 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.139 ± 0.128 (0.229) C:88% T:NA	pCi/L	04/27/21 09:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.00504 ± 0.302 (0.709) C:68% T:90%	pCi/L	05/05/21 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.139 ± 0.430 (0.938)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: FB-7 **Lab ID: 92529896054** Collected: 03/31/21 16:24 Received: 04/02/21 10:36 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0948 ± 0.119 (0.245) C:90% T:NA	pCi/L	04/27/21 09:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.427 ± 0.347 (0.682) C:72% T:85%	pCi/L	05/05/21 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.522 ± 0.466 (0.927)	pCi/L	05/06/21 13:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

Sample: EB-4 **Lab ID: 92529896055** Collected: 03/31/21 16:28 Received: 04/02/21 10:36 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00566 ± 0.0948 (0.271) C:93% T:NA	pCi/L	04/27/21 09:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.238 ± 0.349 (0.750) C:73% T:86%	pCi/L	05/05/21 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.238 ± 0.444 (1.02)	pCi/L	05/06/21 13:03	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch: 443753

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896041, 92529896042, 92529896043, 92529896044, 92529896045, 92529896046, 92529896047, 92529896048, 92529896049, 92529896050, 92529896051, 92529896052, 92529896053, 92529896054, 92529896055

METHOD BLANK: 2141931

Matrix: Water

Associated Lab Samples: 92529896041, 92529896042, 92529896043, 92529896044, 92529896045, 92529896046, 92529896047, 92529896048, 92529896049, 92529896050, 92529896051, 92529896052, 92529896053, 92529896054, 92529896055

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0917 ± 0.357 (0.858) C:71% T:77%	pCi/L	05/05/21 14:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch: 442608

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896040, 92529896041, 92529896042, 92529896043, 92529896044

METHOD BLANK: 2136235

Matrix: Water

Associated Lab Samples: 92529896040, 92529896041, 92529896042, 92529896043, 92529896044

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.448 ± 0.344 (0.649) C:91% T:NA	pCi/L	04/14/21 07:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch:	441707	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896015, 92529896016, 92529896017, 92529896018, 92529896019, 92529896020, 92529896021, 92529896022, 92529896023, 92529896024, 92529896025, 92529896026

METHOD BLANK: 2132285 Matrix: Water

Associated Lab Samples: 92529896015, 92529896016, 92529896017, 92529896018, 92529896019, 92529896020, 92529896021, 92529896022, 92529896023, 92529896024, 92529896025, 92529896026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0366 ± 0.210 (0.420) C:94% T:NA	pCi/L	04/12/21 19:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch:	442607	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896027, 92529896028, 92529896029, 92529896030, 92529896031, 92529896032, 92529896033, 92529896034, 92529896035, 92529896036, 92529896037, 92529896038, 92529896039

METHOD BLANK: 2136233 Matrix: Water

Associated Lab Samples: 92529896027, 92529896028, 92529896029, 92529896030, 92529896031, 92529896032, 92529896033, 92529896034, 92529896035, 92529896036, 92529896037, 92529896038, 92529896039

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0242 ± 0.138 (0.417) C:87% T:NA	pCi/L	04/14/21 07:38	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch: 441743

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896001, 92529896002, 92529896003, 92529896004, 92529896005, 92529896006

METHOD BLANK: 2132379

Matrix: Water

Associated Lab Samples: 92529896001, 92529896002, 92529896003, 92529896004, 92529896005, 92529896006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.209 ± 0.401 (0.975) C:70% T:76%	pCi/L	04/15/21 11:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS
 Pace Project No.: 92529896

QC Batch: 443919 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 92529896045, 92529896046, 92529896047, 92529896048, 92529896049, 92529896050, 92529896051, 92529896052, 92529896053, 92529896054, 92529896055

METHOD BLANK: 2143003 Matrix: Water
 Associated Lab Samples: 92529896045, 92529896046, 92529896047, 92529896048, 92529896049, 92529896050, 92529896051, 92529896052, 92529896053, 92529896054, 92529896055

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00157 ± 0.0800 (0.230) C:92% T:NA	pCi/L	04/27/21 08:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

QC Batch:	443103	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896027, 92529896028, 92529896029, 92529896030, 92529896031, 92529896032, 92529896033, 92529896034, 92529896035, 92529896036, 92529896037, 92529896038, 92529896039, 92529896040

METHOD BLANK:	2138547	Matrix:	Water
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Associated Lab Samples: 92529896027, 92529896028, 92529896029, 92529896030, 92529896031, 92529896032, 92529896033, 92529896034, 92529896035, 92529896036, 92529896037, 92529896038, 92529896039, 92529896040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.751 ± 0.461 (0.850) C:65% T:74%	pCi/L	04/20/21 12:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP SEMIANNUAL RADS
 Pace Project No.: 92529896

QC Batch:	441705	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529896001, 92529896002, 92529896003, 92529896004, 92529896005, 92529896006, 92529896007, 92529896008, 92529896009, 92529896010, 92529896011, 92529896012, 92529896013, 92529896014

METHOD BLANK:	2132283	Matrix:	Water
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Associated Lab Samples: 92529896001, 92529896002, 92529896003, 92529896004, 92529896005, 92529896006, 92529896007, 92529896008, 92529896009, 92529896010, 92529896011, 92529896012, 92529896013, 92529896014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0223 ± 0.135 (0.330) C:93% T:NA	pCi/L	04/12/21 19:23	

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QUALIFIERS

Project: BOWEN AP SEMIANNUAL RADS

Pace Project No.: 92529896

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529896001	BGWA-29	EPA 9315	441705		
92529896002	DUP-1	EPA 9315	441705		
92529896003	FB-1	EPA 9315	441705		
92529896004	BGWC-8	EPA 9315	441705		
92529896005	BGWC-9	EPA 9315	441705		
92529896006	BGWC-12	EPA 9315	441705		
92529896007	BGWC-14A	EPA 9315	441705		
92529896008	BGWC-16	EPA 9315	441705		
92529896009	BGWC-17	EPA 9315	441705		
92529896010	BGWC-18	EPA 9315	441705		
92529896011	FB-2	EPA 9315	441705		
92529896012	BGWA-47D	EPA 9315	441705		
92529896013	BGWA-48D	EPA 9315	441705		
92529896014	BGWC-30	EPA 9315	441705		
92529896015	BGWC-36D	EPA 9315	441707		
92529896016	FB-3	EPA 9315	441707		
92529896017	EB-1	EPA 9315	441707		
92529896018	BGWA-2	EPA 9315	441707		
92529896019	BGWC-19	EPA 9315	441707		
92529896020	BGWC-23	EPA 9315	441707		
92529896021	BGWC-24	EPA 9315	441707		
92529896022	BGWC-25	EPA 9315	441707		
92529896023	BGWC-35D	EPA 9315	441707		
92529896024	BGWC-37D	EPA 9315	441707		
92529896025	DUP-2	EPA 9315	441707		
92529896026	FB-4	EPA 9315	441707		
92529896027	BGWC-20	EPA 9315	442607		
92529896028	BGWC-21	EPA 9315	442607		
92529896029	BGWC-22	EPA 9315	442607		
92529896030	BGWC-31	EPA 9315	442607		
92529896031	BGWC-38D	EPA 9315	442607		
92529896032	BGWC-43D	EPA 9315	442607		
92529896033	FB-5	EPA 9315	442607		
92529896034	EB-2	EPA 9315	442607		
92529896035	BGWC-7	EPA 9315	442607		
92529896036	BGWC-10	EPA 9315	442607		
92529896037	BGWC-32	EPA 9315	442607		
92529896038	BGWC-34D	EPA 9315	442607		
92529896039	BGWC-40	EPA 9315	442607		
92529896040	BGWC-51	EPA 9315	442608		
92529896041	BGWC-52	EPA 9315	442608		
92529896042	DUP-3	EPA 9315	442608		
92529896043	FB-6	EPA 9315	442608		
92529896044	EB-3	EPA 9315	442608		
92529896045	BGWA-33	EPA 9315	443919		
92529896046	BGWC-42D	EPA 9315	443919		
92529896047	EB-5	EPA 9315	443919		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529896048	FB-8	EPA 9315	443919		
92529896049	BGWA-6	EPA 9315	443919		
92529896050	BGWC-39	EPA 9315	443919		
92529896051	BGWC-41D	EPA 9315	443919		
92529896052	BGWC-44D	EPA 9315	443919		
92529896053	DUP-4	EPA 9315	443919		
92529896054	FB-7	EPA 9315	443919		
92529896055	EB-4	EPA 9315	443919		
92529896001	BGWA-29	EPA 9320	441743		
92529896002	DUP-1	EPA 9320	441743		
92529896003	FB-1	EPA 9320	441743		
92529896004	BGWC-8	EPA 9320	441743		
92529896005	BGWC-9	EPA 9320	441743		
92529896006	BGWC-12	EPA 9320	441743		
92529896007	BGWC-14A	EPA 9320	441735		
92529896008	BGWC-16	EPA 9320	441735		
92529896009	BGWC-17	EPA 9320	441735		
92529896010	BGWC-18	EPA 9320	441735		
92529896011	FB-2	EPA 9320	441735		
92529896012	BGWA-47D	EPA 9320	441735		
92529896013	BGWA-48D	EPA 9320	441735		
92529896014	BGWC-30	EPA 9320	441735		
92529896015	BGWC-36D	EPA 9320	441735		
92529896016	FB-3	EPA 9320	441735		
92529896017	EB-1	EPA 9320	441735		
92529896018	BGWA-2	EPA 9320	441735		
92529896019	BGWC-19	EPA 9320	441735		
92529896020	BGWC-23	EPA 9320	441735		
92529896021	BGWC-24	EPA 9320	441735		
92529896022	BGWC-25	EPA 9320	441735		
92529896023	BGWC-35D	EPA 9320	441735		
92529896024	BGWC-37D	EPA 9320	441735		
92529896025	DUP-2	EPA 9320	441735		
92529896026	FB-4	EPA 9320	441735		
92529896027	BGWC-20	EPA 9320	443103		
92529896028	BGWC-21	EPA 9320	443103		
92529896029	BGWC-22	EPA 9320	443103		
92529896030	BGWC-31	EPA 9320	443103		
92529896031	BGWC-38D	EPA 9320	443103		
92529896032	BGWC-43D	EPA 9320	443103		
92529896033	FB-5	EPA 9320	443103		
92529896034	EB-2	EPA 9320	443103		
92529896035	BGWC-7	EPA 9320	443103		
92529896036	BGWC-10	EPA 9320	443103		
92529896037	BGWC-32	EPA 9320	443103		
92529896038	BGWC-34D	EPA 9320	443103		
92529896039	BGWC-40	EPA 9320	443103		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529896040	BGWC-51	EPA 9320	443103		
92529896041	BGWC-52	EPA 9320	443753		
92529896042	DUP-3	EPA 9320	443753		
92529896043	FB-6	EPA 9320	443753		
92529896044	EB-3	EPA 9320	443753		
92529896045	BGWA-33	EPA 9320	443753		
92529896046	BGWC-42D	EPA 9320	443753		
92529896047	EB-5	EPA 9320	443753		
92529896048	FB-8	EPA 9320	443753		
92529896049	BGWA-6	EPA 9320	443753		
92529896050	BGWC-39	EPA 9320	443753		
92529896051	BGWC-41D	EPA 9320	443753		
92529896052	BGWC-44D	EPA 9320	443753		
92529896053	DUP-4	EPA 9320	443753		
92529896054	FB-7	EPA 9320	443753		
92529896055	EB-4	EPA 9320	443753		
92529896001	BGWA-29	Total Radium Calculation	446528		
92529896002	DUP-1	Total Radium Calculation	446528		
92529896003	FB-1	Total Radium Calculation	446528		
92529896004	BGWC-8	Total Radium Calculation	446528		
92529896005	BGWC-9	Total Radium Calculation	446528		
92529896006	BGWC-12	Total Radium Calculation	446528		
92529896007	BGWC-14A	Total Radium Calculation	446528		
92529896008	BGWC-16	Total Radium Calculation	446528		
92529896009	BGWC-17	Total Radium Calculation	446530		
92529896010	BGWC-18	Total Radium Calculation	446530		
92529896011	FB-2	Total Radium Calculation	446530		
92529896012	BGWA-47D	Total Radium Calculation	446530		
92529896013	BGWA-48D	Total Radium Calculation	446530		
92529896014	BGWC-30	Total Radium Calculation	446530		
92529896015	BGWC-36D	Total Radium Calculation	446530		
92529896016	FB-3	Total Radium Calculation	446530		
92529896017	EB-1	Total Radium Calculation	446530		
92529896018	BGWA-2	Total Radium Calculation	446530		
92529896019	BGWC-19	Total Radium Calculation	446530		
92529896020	BGWC-23	Total Radium Calculation	446530		
92529896021	BGWC-24	Total Radium Calculation	446530		
92529896022	BGWC-25	Total Radium Calculation	446530		
92529896023	BGWC-35D	Total Radium Calculation	446530		
92529896024	BGWC-37D	Total Radium Calculation	446530		
92529896025	DUP-2	Total Radium Calculation	446530		
92529896026	FB-4	Total Radium Calculation	446530		
92529896027	BGWC-20	Total Radium Calculation	446414		
92529896028	BGWC-21	Total Radium Calculation	446414		
92529896029	BGWC-22	Total Radium Calculation	446414		
92529896030	BGWC-31	Total Radium Calculation	446414		
92529896031	BGWC-38D	Total Radium Calculation	446414		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL RADS
Pace Project No.: 92529896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529896032	BGWC-43D	Total Radium Calculation	446414		
92529896033	FB-5	Total Radium Calculation	446414		
92529896034	EB-2	Total Radium Calculation	446414		
92529896035	BGWC-7	Total Radium Calculation	446414		
92529896036	BGWC-10	Total Radium Calculation	446414		
92529896037	BGWC-32	Total Radium Calculation	446414		
92529896038	BGWC-34D	Total Radium Calculation	446414		
92529896039	BGWC-40	Total Radium Calculation	446414		
92529896040	BGWC-51	Total Radium Calculation	446414		
92529896041	BGWC-52	Total Radium Calculation	446771		
92529896042	DUP-3	Total Radium Calculation	446771		
92529896043	FB-6	Total Radium Calculation	446771		
92529896044	EB-3	Total Radium Calculation	446771		
92529896045	BGWA-33	Total Radium Calculation	446771		
92529896046	BGWC-42D	Total Radium Calculation	446771		
92529896047	EB-5	Total Radium Calculation	446771		
92529896048	FB-8	Total Radium Calculation	446771		
92529896049	BGWA-6	Total Radium Calculation	446771		
92529896050	BGWC-39	Total Radium Calculation	446771		
92529896051	BGWC-41D	Total Radium Calculation	446771		
92529896052	BGWC-44D	Total Radium Calculation	446771		
92529896053	DUP-4	Total Radium Calculation	446771		
92529896054	FB-7	Total Radium Calculation	446771		
92529896055	EB-4	Total Radium Calculation	446771		

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolina's Quality Office

Laboratory receiving samples:

Ashville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

W0#: 92529896

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



92529896

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *LYT 3/26/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: *2.9* Type of Ice: Dry Blue None

Yes No N/A

Cooler Temp: *3.6* Correction Factor: Add/Subtract (°C) *±0.1*

Temp should be above freezing to 5°C

Samples out of temp criteria. Samples once cooling process has begun

Cooler Temp Corrected (°C): *3.7*

ISDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (or territory, including Hawaii and Puerto Rico)? Yes No

Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A: Project Information
 Section B: Analytical Information
 Section C: Analytical Information

Project: Georgia Power
 Address: 1000 Westchester Parkway
 Address: CA 20140
 Phone: (619) 546-9115
 Fax:
 Email: kwins@gepower.com
 Project Name: Bowen AP Seminars
 Project #:
 Purchase Order #:
 Company Name:
 Address:
 State:
 Project Manager:
 Phone: 1094
 Project #: 1094

METHOD	ANALYSIS	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)	
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
OWWA-1	OWWA-1	WT															
OWWA-2	OWWA-2	WT															
OWWA-3	OWWA-3	WT															
OWWA-4	OWWA-4	WT															
OWWA-5	OWWA-5	WT															
OWWA-6	OWWA-6	WT															
OWWA-7	OWWA-7	WT															
OWWA-8	OWWA-8	WT															
OWWA-9	OWWA-9	WT															
OWWA-10	OWWA-10	WT															
OWWA-11	OWWA-11	WT															
OWWA-12	OWWA-12	WT															

RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION	TEMP in C
John Williams / P&G	8/26/00	10:00	W. J. ... / P&G	8/26/00	10:00	3.6	Y

ANALYST SIGNATURE AND AFFILIATION:
 PROJECT NAME OF LABORATORY:
 DATE SIGNATURE: 8/26/00



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A: Project Information
 Section B: Requested Project Information
 Section C: Invoicing Information

Client Name: Geopoll Power
 Address: 1900 Wheeler Lane Parkway
San Jose, CA 95131
 Phone: (408) 251-9415
 Email: geopoll@geopoll.com
 Project Name: Geopoll Power
 Project #:
 Requested Due Date:

Report To: Geopoll Power
 Copy To: Geopoll Power
 Purchase Order #: 10844
 Project Name: Geopoll Power
 Project #:
 Requested Due Date:

Invoicing Information:
 Company Name: Geopoll Power
 Address:
 City: San Jose
 State: CA
 Zip: 95131
 Project Manager: Kevin Williams
 Phone: (408) 251-9415
 Email: kevin.williams@geopoll.com
 Invoice #:
 Date:

ITEM #	DESCRIPTION	WEIGHT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Residual Chlorine (Y/N)	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	KOH	Na2B2O3	Methanol			Other
17	SO4/C-100	WT													
18	SO4/C-100	WT													
19	SO4/C-100	WT													
20	SO4/C-100	WT													
21	SO4/C-100	WT													
22	SO4/C-100	WT													
23	SO4/C-100	WT													
24	SO4/C-100	WT													
25	SO4/C-100	WT													
26	SO4/C-100	WT													
27	SO4/C-100	WT													
28	SO4/C-100	WT													
29	SO4/C-100	WT													
30	SO4/C-100	WT													
31	SO4/C-100	WT													
32	SO4/C-100	WT													
33	SO4/C-100	WT													
34	SO4/C-100	WT													
35	SO4/C-100	WT													
36	SO4/C-100	WT													
37	SO4/C-100	WT													
38	SO4/C-100	WT													
39	SO4/C-100	WT													
40	SO4/C-100	WT													
41	SO4/C-100	WT													
42	SO4/C-100	WT													
43	SO4/C-100	WT													
44	SO4/C-100	WT													
45	SO4/C-100	WT													
46	SO4/C-100	WT													
47	SO4/C-100	WT													
48	SO4/C-100	WT													
49	SO4/C-100	WT													
50	SO4/C-100	WT													
51	SO4/C-100	WT													
52	SO4/C-100	WT													
53	SO4/C-100	WT													
54	SO4/C-100	WT													
55	SO4/C-100	WT													
56	SO4/C-100	WT													
57	SO4/C-100	WT													
58	SO4/C-100	WT													
59	SO4/C-100	WT													
60	SO4/C-100	WT													
61	SO4/C-100	WT													
62	SO4/C-100	WT													
63	SO4/C-100	WT													
64	SO4/C-100	WT													
65	SO4/C-100	WT													
66	SO4/C-100	WT													
67	SO4/C-100	WT													
68	SO4/C-100	WT													
69	SO4/C-100	WT													
70	SO4/C-100	WT													
71	SO4/C-100	WT													
72	SO4/C-100	WT													
73	SO4/C-100	WT													
74	SO4/C-100	WT													
75	SO4/C-100	WT													
76	SO4/C-100	WT													
77	SO4/C-100	WT													
78	SO4/C-100	WT													
79	SO4/C-100	WT													
80	SO4/C-100	WT													
81	SO4/C-100	WT													
82	SO4/C-100	WT													
83	SO4/C-100	WT													
84	SO4/C-100	WT													
85	SO4/C-100	WT													
86	SO4/C-100	WT													
87	SO4/C-100	WT													
88	SO4/C-100	WT													
89	SO4/C-100	WT													
90	SO4/C-100	WT													
91	SO4/C-100	WT													
92	SO4/C-100	WT													
93	SO4/C-100	WT													
94	SO4/C-100	WT													
95	SO4/C-100	WT													
96	SO4/C-100	WT													
97	SO4/C-100	WT													
98	SO4/C-100	WT													
99	SO4/C-100	WT													
100	SO4/C-100	WT													

RECOMMENDED BY / ANALYST	DATE	TIME	ACCEPTED BY / ANALYST	DATE	TIME	SAFETY CONDITIONS
<i>Kevin Williams</i>	1/24/12	1200	<i>Kevin Williams</i>	1/24/12	1200	Y
<i>Kevin Williams</i>	1/24/12	1200	<i>Kevin Williams</i>	1/24/12	1200	N
<i>Kevin Williams</i>	1/24/12	1200	<i>Kevin Williams</i>	1/24/12	1200	Y

RECEIVED BY: Kevin Williams
 DATE: 1/24/12
 TIME: 1200
 SAFETY CONDITIONS: Y

RECEIVED BY: Kevin Williams
 DATE: 1/24/12
 TIME: 1200
 SAFETY CONDITIONS: N

RECEIVED BY: Kevin Williams
 DATE: 1/24/12
 TIME: 1200
 SAFETY CONDITIONS: Y

2010/03/27

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Marietta Road
 Atlanta, GA 30339

Section B
 Requested Product Information:
 Report To: Mission Air/Info
 Copy To: Geographic Contacts
 Project Name: Paul Bowen Air Sanitation
 Project #:

Section C
 Invoice Information:
 Address:
 Company Name:
 Address:
 Project Manager: Kevin Dettmer
 Paul Bowen Air Sanitation
 Paul Profile #: 315

Requester Agency:
 State / Location:
 CA

Page: 2 of 5

No	SAMPLE ID	MATRIX CODE (See MTR codes to left)	SAMPLE TYPE (G-GRAB O-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requester Analysis Requested (Y/N)	Residual Chlorine (Y/N)
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Nr2S2O3	Methanol				
13	BGWC-17			3/24/11	14:27		5											
14	BGWC-18			3/24/11	15:57		5											
15	BGWC-19																	
16	BGWC-20																	
17	BGWC-21																	
18	BGWC-22																	
19	BGWC-23																	
20	BGWC-24																	
21	BGWC-25																	
22	BGWC-30																	
23	BGWA-6																	
24	BGWC-31																	

RECOMMENDED BY / AFFILIATION: *Kevin Dettmer / Paul Bowen Air Sanitation*

DATE: *3/24/11* TIME: *14:27*

ACCEPTED BY / AFFILIATION: *Kevin Dettmer / Paul Bowen Air Sanitation*

DATE: *3/24/11* TIME: *12:00*

TEMP in C: *3.6*

Received on a Y/N: *Y*

Soilody used Cooler Y/N: *N*

Samples lost Y/N: *Y*

PRINT NAME OF SAMPLER: *Kevin Dettmer*

SIGNATURE OF SAMPLER: *[Signature]*

DATE: *3/24/11*

Handwritten signature

Section A

Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Lamar Road
 Atlanta, GA 30339
 Email: kwhlntm@ge.com
 Phone: (404) 208-228
 Requested Date: _____

Section B

Required Project Information:
 Report To: Kristin Arnold
 Copy To: Geographic Contacts
 Purchase Order #: _____
 Project Name: Plant Down App Seminars
 Project #: _____

Section C

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 State: _____
 Zip: _____
 Project Manager: Kevin Henthorn@ge.com
 Photo Profile #: 315

ITEM #	SAMPLE ID One Character per box. 1-2, 4-9, 1-1 Sample IDs must be unique	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Residual Chlorine (Y/N)
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
37	BGWC-490														
38	BGWC-500														
39	BGWC-91														
40	BGWC-62														
41	BWP-1														
42	BWP-2														
43	BWP-3														
44	BWP-4														
45	FB-1														
46	FB-2				5	2									
47	FB-3														
48	FB-4														

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

APPROVAL COMMENTS: *Kevin Henthorn*
 ANALYST SIGNATURE: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

ANALYST NAME AND SIGNATURE: *Kevin Henthorn*
 PRINT NAME OF ANALYST: Kevin Henthorn
 SIGNATURE OF ANALYST: *Kevin Henthorn*
 DATE: 11/11/10

2/25/21

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 N. Lamar Road
 Atlanta, GA 30339
 Email: brunthel@sdhthermal.com
 Phone: (404) 525-7299 Fax: _____
 Requested Due Date: _____

Section B
 Required Project Information:
 Report To: Kristen Jurkic
 Copy To: Geosystems Contacts
 Purchase Order #: _____
 Project Name: Plant Bowen Air Sampling
 Project #: _____

Section C
 Invoicing Information:
 Attention: _____
 Company Name: _____
 Address: _____
 POC Title: _____
 POC Project Manager: KEVIN STEPHENSON
 POC Phone #: 315 _____
 Billing Agency: _____
 State: FL
 City: CA

ITEM #	SAMPLE ID	MATRIX	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS								Analytes Test	Residual Chlorine (Y/N)					
						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other							
13	BGWC-47	One Character per box. (A-Z, 0-9, .)																		
14	BGWC-16																			
15	BGWC-15																			
16	BGWC-20																			
17	BGWC-21																			
18	BGWC-22																			
19	BGWC-23																			
20	BGWC-24																			
21	BGWC-25																			
22	BGWC-30		3/25/21	1120			5	2	3											
23	BGWC-31																			
24	BGWC-34																			

ANALYST COMMENTS	RECORDED BY / ASSIGNED	DATE	TIME	RECORDED BY / ASSIGNED	DATE	TIME	ANALYST COMMENTS
	Kevin Stephenson	3/24/21	1120	Kevin Stephenson	3/24/21	1120	
	Kevin Stephenson	3/24/21	1120	Kevin Stephenson	3/24/21	1120	

SAMPLER NAME AND SIGNATURE: _____
 PRINT NAME OF SAMPLER: Will Locker, Kevin Stephenson
 SIGNATURE OF SAMPLER: *Will Locker* *Kevin Stephenson*
 DATE SIGNED: 3/17/21

Project # 1632

Section A Required Client Information: Georgia Power - Civil Construction Residuals
 Section B Required Project Information: Report To: Kristin Jenkins
 Section C Sample Information: Address: 2460 Hunter Road
 City: Marietta, GA 30067
 Project Name: Plant Bowen AP Sennettur
 Project #:

Company: Georgia Power - Civil Construction Residuals
 Address: 2460 Hunter Road
 Atlanta, GA 30067
 Email: kjenkins@scsblm.com
 Phone: (404)508-7288
 Fax:
 Requested Date: 3/21/16
 Project Manager: Kevin Henning @gsccslabs.com
 Project #:

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								Analyses Test	Y/N	Requested Analyte Returned (Y/N)	Residual Chlorine (Y/N)
					DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
1	BGWA-2							5	X											
2	BGWA-29																			
3	BGWA-33																			
4	BGWA-47B																			
5	BGWA-48B																			
6	BGWA-7																			
7	BGWA-8																			
8	BGWA-9																			
9	BGWA-10																			
10	BGWA-12																			
11	BGWA-14A																			
12	BGWA-16																			

ANALYSE FILING AND SIGNATURE
 PRINT Name of ANALYST: [Signature]
 DATE SIGNED: 3/21/16
 RECEIVED BY / DATE: [Signature] 3/26/16
 TEMP in C: [Blank]
 Received on Ice (Y/N): [Blank]
 Custody Sealed Cooler (Y/N): [Blank]
 Samples Intact (Y/N): [Blank]

Handwritten signature

Section A
 Requested Client Information:
 Company: Georgia Power - Coal Combustion Products
 Address: 2450 Mason Road
 Atlanta, GA 30339
 Phone: (404) 306-7235 Fax: _____
 Requested Due Date: _____

Section B
 Requested Project Information:
 Report To: Kristen Larkin
 Copy To: Geographic Contacts
 Purchase Order #: _____
 Project Name: Plant Renewal AP Sampsonville
 Project #: _____

Section C
 Invoicing Information:
 Attention: _____
 Company Name: _____
 Address: _____
 City/State: _____
 Zip: _____
 Project Profile #: 315

Regulatory Agency
 State: GA

#	SAMPLE ID	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Y/N	RESIDUAL CHLORINE (Y/N)	
										COLLECTED
25	BGWC-38									
26	BGWC-39									
27	BGWC-35D	3/24/12	1407		5	3			702	
28	BGWC-36B									
29	BGWC-37D	3/24/12	1741		5	3			714	
30	BGWC-38B									
31	BGWC-39									
32	BGWC-40									
33	BGWC-41B									
34	BGWC-42B									
35	BGWC-43B									
36	BGWC-44D									

Section D
 Received on (Y/N)
 Custody Sealed/Coated (Y/N)
 Samples Intact (Y/N)

Section E
 TEMP in C
 DATE SIGNED: 3/26/12

Rad Analysis

Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2400 Baker Road
 Atlanta, GA 30338
 Email: KJLJLJLJL@SCS.STRIPROD.COM
 Phone: (404) 508-2208 Fax: []
 Requested Date: []

Section B
 Required Project Information:
 Report To: Kristen Justice
 Copy To: Geographic Contacts
 Purchase Order #: []
 Project Name: Final Down-Up Statement
 Project #: []

Section C
 Invoices Information:
 Applicant: []
 Company Name: []
 Address: []
 POC Name: []
 POC Project Manager: KJLJLJLJL@SCS.STRIPROD.COM
 POC Profile #: 315

Requester Analysis Filtered (Y/N)
 Regulatory Agency: []
 State / Location: []
 GA

ITEM #	SAMPLE ID	One Container per box. V-Z 0.97, 1 Samples do not be unique	DATE	TIME	SAMPLE TEMP AT COLLECTION	K OF CONTAINERS	Preservatives								Analysis Test	Y/N	RAD 8316/8320	TDS	Cl, F, SO4	App. III & IV Metals	Residual Chlorine (Y/N)
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other							
48	FB-5		3/29/21	15:36		5															
49	FB-6					2															
50	FB-7					3															
51	EB-1																				
52	EB-2		3/29/21	16:29		5															
53	EB-3					2															
54	EB-4					3															
55																					
56																					
57																					
58																					
59																					
60																					

ADDITIONAL COMMENTS

RELEASER'S BY/AFFILIATION: Ryan Williams / Pace

DATE: 3/31/21

TIME: 1200

ACCEPTED BY/AFFILIATION: Ryan Williams / Pace

DATE: 3/31/21

TIME: 0838

SAMPLE CONDITIONS

TEMP in C: 19

Received on (Y/N): Y

Sealed Cooler (Y/N): N

Temperature (Y/N): Y

SAMPLER NAME AND SIGNATURE: DE BOON

PRINT Name of SAMPLER: DE BOON

SIGNATURE OF SAMPLER: [Signature]

DATE: 3/31/21

Handwritten signature

Section 4
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2440 Sandy Road
 Atlanta, GA 30329
 Phone: (404)506-7200 Fax:
 Requested Due Date:
 Section 8
 Required Project Information:
 Report To: Kristan Jenkins
 Copy To: Geosynthetic Contacts
 Purchase Order #:
 Project Name: Paul Bowen AP Semiregular
 Project #:
 Section 9
 Analytical Information:
 Adaptor:
 Company Name:
 Address:
 Project Order:
 Pace Project Manager: Kevin Henning@gaepdbs.com
 Pace Profile #: 315
 Regulatory Agency:
 State/Territory:
 CA

Section 10
 Required Analytical Parameters (Y/N)
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 H2S2O3
 Methanol
 Other
 Analytes/Tests: Y/N
 RAD 9315/9320
 TDS
 Cl, F, SO4
 App. III & IV Metals
 Residual Chlorine (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAV C=COMB)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analytes/Tests	Y/N	Residual Chlorine (Y/N)	
				DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	H2S2O3	Methanol				Other
1	BGWA-2																
2	BGWA-29																
3	BGWA-33																
4	BGWA-47E																
5	BGWA-48E																
6	BGWC-7	5G	GRAV	0935			5	2	3								
7	BGWC-8																
8	BGWC-8																
9	BGWC-10	5G	GRAV	1137			5	2	3								
10	BGWC-42																
11	BGWC-14A																
12	BGWC-10																

ADDITIONAL COMMENTS
 Relationship by Affiliation
 DATE TIME
 ACCEPTED BY / AFFILIATION
 DATE TIME
 SAMPLE CONDITIONS

PROJECT NAME AND SIGNATURE
 PROJECT NAME OF SAMPLES
 DATE SIGNED
 RECEIVED ON (Y/N)
 AUTOBODY ASSESSED TOOKER (Y/N)
 SAMPLES ASSESSED (Y/N)

Handwritten signature

Section A
 Section B
 Section C

Requested Client Information:
 Company: Georgia Power - Coal Combustion Residue
 Address: 2400 Lamar Road
 Atlanta, GA 30339
 Phone: (404) 908-7219 Fax: _____
 Requested Due Date: _____

Requested Project Information:
 Report To: Kristen Larkins
 Copy To: Geographic Contacts
 Purchase Order #
 Project Name: Penn Bowen AP Semiannual
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pico Order:
 Pico Project Manager: kristen.larkins@epscs.com
 Pico Pallet # 315

Regulatory Agency:
 State: GA

#	ITEM	MATRIX CODE (5 is valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	RAD 6315/0320	TDS	Cl, F, SO4	App. III & IV Metals	Residual Chlorine (Y/N)
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						
37	BQWG-499																			
38	BQWG-499																			
39	BQWG-51			3/12/12	14:34		5	2	3											
40	BQWG-52			3/13/12	11:30		5	2	3											
41	DUP-4																			
42	DUP-2																			
43	DUP-3			3/16	3/16/12		5	2	3											
44	DUP-4																			
45	FB-1																			
46	FB-2																			
47	FB-3																			
48	FB-4																			

ADDITIONAL COMMENTS: _____

Requested by / APPROVAL: _____ DATE: _____ TIME: _____

APPROVED BY / APPROVAL: _____ DATE: _____ TIME: _____

ADDITIONAL COMMENTS: _____

SAMPLER NAME AND SIGNATURE: _____

PRINT NAME OF SAMPLER: _____

SIGNATURE OF SAMPLER: _____ DATE: _____

EMP In C: _____

received on _____ (M)

utility used color _____ (M)

samples left _____ (M)

Bechtel

Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2400 Keller Road
Atlanta, GA 30339
Phone: (404) 506-7259
Requested Due Date:

Section B
Required Project Information:

Report To: Kristen Jurkic
Copy To: Gascochee Controls
Facility Order #: Part Bowen AP Semianual
Project Name: Part Bowen AP Semianual
Project #:

Section C
Invoicing Information:

Division:
Company Name:
Address:
Pool Order:
Pool Project Manager: Kevin Horton@geopacslas.com
Pool Profile #: 315

ITEM #	SAMPLE ID One Character per box. 4-7-2, 0-9 / 1-3 Samples must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Residual Chlorine (Y/N)	
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Method			Other
1	BGWA-2																
2	BGWA-39																
3	BGWA-33			4/1/21	0945		5	2	3								
4	BGWA-47B																
5	BGWA-48B																
6	BGWA-7																
7	BGWA-9																
8	BGWA-9-																
9	BGWA-19																
10	BGWA-12																
11	BGWA-14A																
12	BGWA-16																

APPROVAL, COMMENTS	RECEIVED BY / DATE/TIME	ACCEPTED BY / DATE/TIME	CLIENT'S CONDITIONS
	Will Lambert / Residuals Ryan Williams / PAU 4/1/21 10:36 4/2/21 13:36	Don Williams / POE 4/1/21 10:36 4/1/21 13:35	

SAMPLER NAME AND SIGNATURE: Joe Brook
PRINT NAME OF SAMPLER: Joe Brook
SIGNATURE OF SAMPLER: *Joe Brook*
DATE SIGNED: 4/1/21

Received on (Y/N)
Custody sealed cooler (Y/N)
Samples wet (Y/N)

Bohner

Section A
Requested Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2481 44th Road
Atlanta, GA 30339
Email: KJLUTHER@GSPROJECTS.COM
Phone: (404)506-7228 Fax:
Requested Data Date:

Section B
Requested Project Information:

Report To: Kristian Jantko
Copy To: Geographic Contacts
Purchase Order #:
Project Name: River Down AP Semiregular
Project #:

Section C
Invoicing Information:

Address:
Contract Name:
Billing Cycle:
Sales Project Manager: Kevin Fertigschreiber
Sales Project #: 315
Billing Agency:
State: GA

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9, /,) Samples must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analysis Test	Y/N	Residual Chlorine (Y/N)											
				DATE	TIME		Unpreserved	H2SO4	HNO3	KCl	NaOH	Na2S2O3	Methanol				Other										
17	BGWC-322																										
18	BGWC-323																										
19	BGWC-324																										
20	BGWC-325																										
21	BGWC-326																										
22	BGWC-327																										
23	BGWC-328																										
24	BGWC-329																										
25	BGWC-330																										
26	BGWC-331																										
27	BGWC-332																										
28	BGWC-333																										
29	BGWC-334																										
30	BGWC-335																										
31	BGWC-420			4/1/21	1055		5	2	3																		
32	BGWC-421																										
33	BGWC-422																										
34	BGWC-423																										
35	BGWC-424																										
36	BGWC-425																										
Additional Comments				Reimbursed by application				DATE				TIME				AGREED BY / APPLICATION				DATE				TIME			
				Will Walker / Resolute				4/1/21				1056				Bym Williams / Price				4/1/21				1036			
				Bym Williams / Price				4/2/21				1336				K Williams / Price				4/1/21				1335			

SAMPLER NAME AND SIGNATURE:
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

Joe Roth
DATE Signed: 1/21

EMP In C
received on
7/21
today
used
04/27
7/21
samples
10/21
7/21

pt 7.44

Handwritten signature

Section A
Requested Client Information:

Company: General Power - Coal Combustion Residuals
 Address: 2450 Maple Road
 Atlanta, GA 30339
 Email: klj@gnp.com
 Phone: (404) 506-7219 Fax: _____
 Requested Due Date: _____

Section B
Requested Project Information:

Report To: Regional Jurisdiction
 Copy To: Geographic Contacts
 Purchase Order #: _____
 Project Name: Plant Bowen Air Settlement
 Project #: _____

Section C
Insights Information:

Address: _____
 Attention: _____
 Company Name: _____
 Page Quote: _____
 Plant Project Manager: Kevin Henthorn
 Plant Profile #: 315
 Requested Analytical Method (Y/N): _____

#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPOUND)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATION							ANALYSIS TEST				Residual Chlorine (Y/N)			
				START	TIME				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Y/N	Y/N		Y/N		
25	BGWC-32					3/31/21	1417	5	2	3								X	X	X	X		
26	BGWC-34D																	X	X	X	X		
27	BGWC-34D																	X	X	X	X		
28	BGWC-34D																	X	X	X	X		
29	BGWC-37D																	X	X	X	X		
30	BGWC-37D																	X	X	X	X		
31	BGWC-39					3/31/21	1002	5	2	3								X	X	X	X		
32	BGWC-40																	X	X	X	X		
33	BGWC-47D					3/31/21	1352	5	2	3								X	X	X	X		
34	BGWC-43D																	X	X	X	X		
35	BGWC-43D																	X	X	X	X		
36	BGWC-44D					3/31/21	1417	5	2	3								X	X	X	X		

APPROVAL COMMENTS	RECEIVED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE CONDITIONS
	Will Locker / Resolve	4/1/21	1036	Kevin Williams / Pass	4/2/21	1036	pH: 7.40
	Ryan Williams / Pass	4/2/21	1335	Kevin Williams / Pass	4/2/21	1335	pH: 7.44

SAMPLER NAME AND SIGNATURE: _____
 SIGNATURE OF SAMPLER: Will Locker, Joe Booth, Kevin Stephenson
 DATE SIGNED: 4/2/21

EMP In C: _____
 involved on: _____
 body: _____
 color: _____
 samples: _____

W. Laaker

Section A
Requested Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2185 Laaker Road
Atlanta, GA 30339

Email: billjlaaker@ga.com
Phone: (404)506-7228 Fax:
Requested Date: _____

Section B
Requested Project Information:

Report To: Kristen Junkin
Copy To: Georgetown Controls
Purchase Order #:
Project Name: Plant Bowen AP Semiannual
Project #:

Section C
Invoicing Information:

Advertiser:
Company Name:
Address:
Billing Contact:
Billing Phone #:
Billing Email:

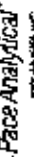
Price Quote:
Sales Project Manager: Kevin Martin
Sales Office: kevin.martin@ga.com
Price Profile #: 315

Regulatory Agency:
State/Location:
CA

#	ITEM	SAMPLE ID	One Container per box. (4-2, 0-1, 1) Samples must be unique	MATRIX		CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	Y/N	RAD 8316/9320	TDS	CI, F, SO4	App. III & IV Metals	Residual Chlorine (Y/N)	
				DISTRICT	ANALYST	DATE	TIME			UNPRESERVED	H2SO4			MNOS	HCl	NaOH	Na2S2O8	Methanol	Other									
37	BQWG-40B																											
38	BQWG-50B																											
39	BQWG-61																											
40	BQWG-52																											
41	DUP-1																											
42	BUP-2																											
43	BUP-3																											
44	DUP-4										3/31/21																	
45	FBI-1																											
46	FBI-2																											
47	FBI-3																											
48	FBI-4																											

ADDITIONAL COMMENTS: _____
 COLLECTED BY / LAB/INSTRUM: _____
 DATE: 4/2/21 TIME: 1036
 WILL LAAKER / RESOLUTC
 RYAN WILLIAMS / PCS
 ACCEPTED BY / LAB/INSTRUM: _____
 DATE: 4/2/21 TIME: 1036
 WILL LAAKER / RESOLUTC
 RYAN WILLIAMS / PCS
 SAMPLE CONDITIONS: _____
 EMP IN C: _____
 Received on _____ (Y/N)
 Velocity _____ (Y/N)
 Amps _____ (Y/N)
 Date signed: 2/21/21

Quality Control Sample Performance Assessment



Test#: Ra-228
Analysis: CLA
Date: 4/13/2021
Worklist: 59843
Matrix: DW

Analyt Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2130233
MB Concentration:	-0.024
MB Counting Uncertainty:	0.138
MB MDC:	0.417
MB Numerical Performance Indicator:	-0.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS ID	Y
LCS59843	LCS059843
Count Date:	4/14/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.504
Target Conc. (pCi/L, g, F):	4.768
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	4.741
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.753
Numerical Performance Indicator:	-0.07
Percent Recovery:	98.59%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample ID:	LCS59843
Duplicate Sample ID:	LCS059843
Sample Result (pCi/L, g, F):	4.741
Sample Result Counting Uncertainty (pCi/L, g, F):	0.763
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.894
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.084
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.88%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

4/14/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample LC</p> <p>Sample MS ID:</p> <p>Sample MSD ID:</p> <p>Spike ID:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc (pCi/L, g, F):</p> <p>MS Spike Uncertainty (Calculated):</p> <p>MSD Spike Uncertainty (Calculated):</p> <p>Sample Result:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limit:</p> <p>MS/MSD Lower % Recovery Limit:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample ID</p> <p>Sample MS ID:</p> <p>Sample MSD ID:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Rn-226
Analyst: CLA
Date: 4/13/2021
Worklist: 58843
Matrix: DW



Method Blank Assessment	
MB Sample ID	2136233
MB Concentration:	-0.024
MB Counting Uncertainty:	0.138
MB MDC:	0.417
MB Numerical Performance Indicator:	-0.34
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSID (Y or N)?		N
	LCSD 59843	LCSD 99843	
Count Date:	4/14/2021		
Spike I.D.:	15-033		
Decay Corrected Spike Concentration (pCi/mL):	24.038		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.504		
Target Conc. (pCi/L, g, F):	4.768		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.741		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.753		
Numerical Performance Indicator:	-0.07		
Percent Recovery:	99.43%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	126%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	LCSD (Y or N)?	N
Sample I.D.:	9252996027	
Duplicate Sample I.D.:	9252996027DUP	
Sample Result (pCi/L, g, F):	0.431	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.254	
Sample Duplicate Result (pCi/L, g, F):	0.155	
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.268	
Are sample and/or duplicate results below RCL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.409	
Duplicate RPD:	94.21%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

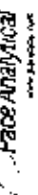
***Result must be re-analyzed due to unacceptable precision.

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Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: CLA
 Date: 4/13/2021
 Worksheet: 59844
 Matrix: DW

Method Blank Assessment

MB Sample ID	2136235
MB Concentration:	0.448
MB Counting Uncertainty:	0.337
MB MDC:	0.649
MB Numerical Performance Indicator:	2.60
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment

Count Date:	LCSO (Y or N)?	Y
4/14/2021	LCSO59844	4/14/2021
Decay Corrected Spike Concentration (pCi/mL):	19-033	24-033
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.502
Target Conc. (pCi/L, g, F):	4.763	4.785
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	3.667	4.485
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.725	0.794
Numerical Performance Indicator:	-3.01	-0.74
Percent Recovery:	76.67%	93.73%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment

Sample ID	Duplicate Sample ID	Enter Duplicate Sample ID's if other than LCS/LCSD in the space below:
LCS-59844	LCSO59844	
3.667	3.667	
0.725	0.725	
4.485	4.485	
0.794	0.794	
NO	NO	
-1.491	-1.491	
20.03%	20.03%	
N/A	N/A	
Pass	Pass	
25%	25%	

Analyst Must Manually Enter All Fields Highlighted in Yellow

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample ID:		
Sample MS ID:		
Sample MSD ID:		
Spike ID:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (Calculated):		
MSD Spike Uncertainty (Calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSO Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

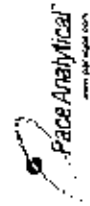
Sample ID	Sample MS ID	Sample MSD ID
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries): MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

⚠ Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature and date: 4/14/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: RA-226
 Analyst: CLA
 Date: 4/12/2021
 Worksheet: 59707
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2132283
MB Concentration	0.022
MB Counting Uncertainty	0.135
MB MDC	0.330
MB Numerical Performance Indicator	0.32
MB Status vs. MDC	N/A
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS-59707	LCS-59707
Count Date:	4/12/2021	
Decay Corrected Spike Concentration (pCi/mL):	19.033	24.038
Volume Used (mL)	0.10	
Aliquot Volume (L, g, F)	0.505	
Target Conc. (pCi/L, g, F)	4.760	
Uncertainty (Calculated)	0.057	
Result (pCi/L, g, F)	4.802	
LCS/LCSD Counting Uncertainty (pCi/L, g, F)	0.393	
Numerical Performance Indicator	0.20	
Percent Recovery	100.87%	
Status vs Numerical Indicator	N/A	
Status vs Recovery	Pass	
Upper % Recovery Limits	125%	
Lower % Recovery Limits	75%	

Duplicate Sample Assessment	Enter Duplicate sample lbs if other than LCS/LCSD in the space below:
Sample ID:	92529417011
Duplicate Sample ID:	92529417011DUP
Sample Result (pCi/L, g, F):	0.257
Sample Result Counting Uncertainty (pCi/L, g, F):	0.192
Sample Duplicate Result (pCi/L, g, F):	0.245
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.166
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator	0.091
Duplicate RPD	4.71%
Duplicate Status vs Numerical Indicator	N/A
Duplicate Status vs RPD	Pass
% RPD Limit	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample ID: Sample MS ID: Sample MSD ID: Spike ID: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MSD Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (Calculated): MSD Spike Uncertainty (Calculated): Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample ID: Sample MS ID: Sample MSD ID: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate RPD: Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

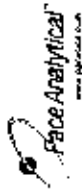
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: CLA
 Date: 4/12/2021
 Worksheet: 59707
 Matrix: DW



Method Blank Assessment	
MB Sample ID	2132289
MB Concentration	0.022
MB Counting Uncertainty	0.135
MB MDCC	0.330
MB Numerical Performance Indicator	0.32
MB Status vs. Numerical Indicator	N/A
MB Status vs. MDCC	Pass

Laboratory Control Sample Assessment	
LCSD ID or NID	Y
LCSD59707	4/12/2021
LCSD59707	19-033
LCSD59707	24-038
LCSD59707	0.10
LCSD59707	0.505
LCSD59707	4.750
LCSD59707	0.057
LCSD59707	3.990
LCSD59707	0.339
LCSD59707	-4.29
LCSD59707	84.12%
LCSD59707	N/A
LCSD59707	Pass
LCSD59707	125%
LCSD59707	75%

Duplicate Sample Assessment	
Sample ID:	LCSD59707
Duplicate Sample ID:	LCSD59707
Sample Result (pCi/L, g, F):	4.802
Sample Duplicate Result (pCi/L, g, F):	0.393
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	3.990
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.359
Are sample and/or duplicate results below RL?	NID
Duplicate Numerical Performance Indicator	3.064
Duplicate Percent Recoveries	18.11%
Duplicate RPD	N/A
Duplicate Status vs. Numerical Indicator	Pass
Duplicate Status vs. RPD	25%
% RPD Limit	

Sample Matrix Spike Control Assessment	
Sample Collection Date	
Sample ID	
Sample MS ID	
Sample MSD ID	
Spike ID	
MS/MSD Decay Corrected Spike Concentration (pCi/mL)	
Spike Volume Used in MS (mL)	
Spike Volume Used in MSD (mL)	
MS Aliquot (L, g, F)	
MS Target Conc. (pCi/L, g, F)	
MSD Aliquot (L, g, F)	
MSD Target Conc. (pCi/L, g, F)	
MSD Spike Uncertainty (calculated)	
MSD Spike Uncertainty (calculated)	
Sample Result	
Sample Result Counting Uncertainty (pCi/L, g, F)	
Sample Matrix Spike Result	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F)	
MS Numerical Performance Indicator	
MSD Numerical Performance Indicator	
MS Percent Recovery	
MSD Percent Recovery	
MS Status vs. Numerical Indicator	
MSD Status vs. Numerical Indicator	
MS Status vs. Recovery	
MSD Status vs. Recovery	
MS/MSD Upper % Recovery Limit	
MS/MSD Lower % Recovery Limit	

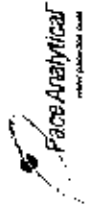
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID	
Sample MS ID	
Sample MSD ID	
Sample Matrix Spike Result	
Sample Matrix Spike Duplicate Result	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)	
Duplicate Numerical Performance Indicator	
Duplicate Percent Recoveries	
Duplicate RPD	
MS/MSD Duplicate Status vs. Numerical Indicator	
MS/MSD Duplicate Status vs. RPD	
% RPD Limit	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDCC.

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow



Test: Ra-226
 Analyte: CLA
 Date: 4/12/2021
 Worklist: 59709
 Matrix: DW

Method Blank Assessment

MB Sample ID	2132265
MB concentration	0.037
MB Counting Uncertainty	0.210
MB MDC	0.420
MB Numerical Performance Indicator	0.34
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment

LCSID (Y or N)*	N
LCS59709	LCS59709
Count Date:	4/13/2021
Spike I.D.	19-033
Decay Corrected Spike Concentration (pCi/mL)	24.038
Volume Used (mL)	0.10
Aliquot Volume (L, g, F)	0.506
Target Conc. (pCi/L, g, F)	4.752
Uncertainty (Calculated)	0.057
Result (pCi/L, g, F)	4.586
LCS/LCSD Counting Uncertainty (pCi/L, g, F)	0.824
Numerical Performance Indicator	-0.39
Percent Recovery	96.50%
Status vs Numerical Indicator	Pass
Status vs Recovery	Pass
Upper % Recovery Limit	125%
Lower % Recovery Limit	75%

Duplicate Sample Assessment

Sample I.D.	9252989015
Duplicate Sample I.D.	9252989015DUP
Sample Result (pCi/L, g, F)	0.581
Sample Duplicate Result (pCi/L, g, F)	0.324
Sample Duplicate Counting Uncertainty (pCi/L, g, F)	0.773
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)	0.460
Are sample and/or duplicate results below RL?	Yes Below #
Duplicate Numerical Performance Indicator	-0.771
Duplicate RPD	94.0%
Duplicate Status vs Numerical Indicator	N/A
Duplicate Status vs RPD	Fail***
% RPD Limit	25%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
 9252989015
 9252989015DUP

** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch number is suppressed due to email capabilities limitation. N/A Lam 4/13/21

Sample Matrix Spike Control Assessment

Sample Collection Date:	
Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Spike I.O.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSO Spike Uncertainty (calculated):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSO Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSO Status vs Recovery:	
MS/MSD Upper % Recovery Limit:	
MS/MSD Lower % Recovery Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Lam 4/13/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 4/13/2021
Worklist: 99709
Matrix: DW

Method Blank Assessment	
MB Sample ID	2132265
MB Concentration	0.037
MB Counting Uncertainty	0.210
MB MDC	0.426
MB Numerical Performance Indicator	0.34
MB Status vs Numerical Indicator	N/A
MB Status vs MDC	Pass

Laboratory Control Sample Assessment		LCS(D)Y or N(%)	Y
Count Date	4/13/2021	LCS059709	4/13/2021
Spikes I.D.	19-033	LCS059709	19-033
Decay Corrected Spike Concentration (pCi/mL)	24.036		24.036
Volume Used (mL)	0.10		0.10
Alliquot Volume (L, g, F)	0.506		0.501
Target Conc. (pCi/L, g, F)	4.752		4.802
Uncertainty (Calculated)	0.057		0.058
Result (pCi/L, g, F)	4.566		4.997
LCS(L)CSD Counting Uncertainty (pCi/L, g, F)	0.824		0.806
Numerical Performance Indicator	-0.38		0.47
Percent Recovery	98.50%		104.05%
Status vs Numerical Indicator	N/A		N/A
Status vs Recovery	Pass		Pass
Upper % Recovery Limits	125%		125%
Lower % Recovery Limits	75%		75%

Duplicate Sample Assessment		Enter Duplicate Sample IDs if other than LCS(L)CSD in the space below.	
Sample I.D.	LCS059709		
Duplicate Sample I.D.	LCS059709		
Sample Result (pCi/L, g, F)	4.566		
Sample Result Counting Uncertainty (pCi/L, g, F)	0.824		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)	4.987		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator	-0.699		
(Based on the LCS(L)CSD Percent Recoveries) Duplicate RPD	7.83%		
Duplicate Status vs Numerical Indicator	N/A		
Duplicate Status vs RPD	Pass		
% RPD Limit	25%		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Comments:

Sample Matrix Spike Control Assessment		MSMSD 1	MSMSD 2
Sample Collection Date			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Spikes I.D.			
MSMSD Directly Connected Spike Concentration (pCi/mL)			
Spike Volume Used in MS (mL)			
Spike Volume Used in MSD (mL)			
MS Aliquot (L, g, F)			
MSD Aliquot (L, g, F)			
MS Target Conc. (pCi/L, g, F)			
MSD Target Conc. (pCi/L, g, F)			
MS Spike Uncertainty (calculated)			
MSD Spike Uncertainty (calculated)			
Sample Result			
Sample Result Counting Uncertainty (pCi/L, g, F)			
Sample Matrix Spike Result			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)			
Sample Matrix Spike Duplicate Result			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)			
MS Numerical Performance Indicator			
MSD Numerical Performance Indicator			
MS Percent Recovery			
MSD Percent Recovery			
MS Status vs Numerical Indicator			
MSD Status vs Numerical Indicator			
MS Status vs Recovery			
MSD Status vs Recovery			
MSMSD Upper % Recovery Limits			
MSMSD Lower % Recovery Limits			

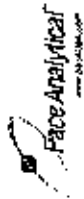
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)	
Sample Matrix Spike Duplicate Result	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)	
Duplicate Numerical Performance Indicator	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD	
MS/MSD Duplicate Status vs Numerical Indicator	
MS/MSD Duplicate Status vs RPD	
% RPD Limit	

LA-M-13121

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: CLA
 Date: 4/23/2021
 Worksheet: 60057
 Matrix: DW



Method Blank Assessment

MB Sample ID	2143003
MB Concentration	<0.002
MB Counting Uncertainty	0.080
MB MDC	0.230
MB Numerical Performance Indicator	<0.04
MB Status vs. Numerical Indicator	N/A
MB Status vs. MDC	Pass

Laboratory Control Sample Assessment

Count Date	LCS/TV or NIP	Y
4/27/2021	LCS060057	4/27/2021
19-033	19-033	24.038
Decay Corrected Spike Concentration (pCi/mL)	0.10	0.10
Aliquot Volume (L, g, F)	0.502	0.501
Target Conc. (pCi/L, g, F)	4.789	4.800
Uncertainty (Calculated)	0.057	0.058
Result (pCi/L, g, F)	4.444	4.277
LCS/LCSD Counting Uncertainty (pCi/L, g, F)	0.581	0.549
Numerical Performance Indicator	-1.20	-1.85
Percent Recovery	92.79%	89.11%
Status vs Numerical Indicator	N/A	N/A
Status vs Recovery	Pass	Pass
Upper % Recovery Limits	125%	125%
Lower % Recovery Limits	75%	75%

Duplicate Sample Assessment

Sample ID	Duplicate Sample ID	Enter Duplicate sample IIDs if other than LCS/LCSD in the space below.
LCS060057	LCS060057	925736980053 925736980500JP
4.444	4.444	
0.561	0.561	
4.277	4.277	
0.549	0.549	
N/A	N/A	
0.416	0.416	
4.05%	4.05%	
N/A	N/A	
Pass	Pass	
25%	25%	

Sample Matrix Spike Control Assessment

Sample Collection Date	MS/MSD 1	MS/MSD 2
Sample ID		
Sample MS ID		
Sample MSD ID		
Spike ID		
MS/MSD Decay Corrected Spike Concentration (pCi/mL)		
Spike Volume Used in MS (mL)		
Spike Volume Used in MSD (mL)		
MS Aliquot (L, g, F)		
MS Target Conc. (pCi/L, g, F)		
MSD Aliquot (L, g, F)		
MSD Target Conc. (pCi/L, g, F)		
MS Spike Uncertainty (Calculated)		
MSD Spike Uncertainty (Calculated)		
Sample Result		
Sample Result Counting Uncertainty (pCi/L, g, F)		
Sample Matrix Spike Result		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)		
Sample Matrix Spike Duplicate Result		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)		
MS Numerical Performance Indicator		
MSD Numerical Performance Indicator		
MS Percent Recovery		
MSD Percent Recovery		
MS Status vs Numerical Indicator		
MSD Status vs Numerical Indicator		
MS Status vs Recovery		
MSD Status vs Recovery		
MS/MSD Upper % Recovery Limits		
MS/MSD Lower % Recovery Limits		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample ID	Sample MS ID	Sample MSD ID
Sample Matrix Spike Result		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F)		
Sample Matrix Spike Duplicate Result		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F)		
Duplicate Numerical Performance Indicator		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD		
MS/MSD Duplicate Status vs Numerical Indicator		
MS/MSD Duplicate Status vs RPD		
% RPD Limit		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Yield 2143003

LA 4/27/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-228
Analyst: CLA
Date: 4/23/2021
Worksheet: 80057
Matrix: DW



Method Blank Assessment	
MB Sample ID	2143003
MB Concentration:	-0.002
MB Counting Uncertainty:	0.080
MB MDC:	0.230
MB Numerical Performance Indicator:	-0.04
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
Count Date:	4/27/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc (pCi/L, g, F):	4.789
Uncertainty (Calculated) Result (pCi/L, g, F):	0.057
4.444	
LCSD Counting Uncertainty (pCi/L, g, F):	0.561
Numerical Performance Indicator:	-1.20
Percent Recovery:	92.79%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	128%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	82528969055
Duplicate Sample I.D.:	82528969055DUP
Sample Result (pCi/L, g, F):	-0.026
Sample Result Counting Uncertainty (pCi/L, g, F):	0.096
Sample Duplicate Result (pCi/L, g, F):	-0.042
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.103
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	0.516
Duplicate RPD:	-142.92%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

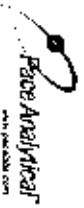
Comments:

Handwritten notes:
104-0117
MDC
LAWM/1/27/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MS Target Conc (pCi/L, g, F):</p> <p>MSD Target Conc (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>MSR MSD Duplicate Status vs Numerical Indicator:</p> <p>MSR MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 4/28/2021
Worksheet: 60026
Matrix: W1

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2141831
MB Concentration	-0.092
MB 2 Sigma CSU	0.357
MB MDCC	0.859
MB Numerical Performance Indicator	0.50
MB Status vs Numerical Indicator	Pass
MB Status vs MDCC	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Draw		LCS60026	LCS060026
Spike ID		552027	552021
Decay Corrected Spike Concentration (pCi/mL)		21.403	21.003
Volume Used (mL)		37.814	37.814
Aliquot Volume (L, g, F)		0.10	0.10
Target Conc. (pCi/L, g, F)		0.816	0.800
Uncertainty (Calculated)		4.636	4.724
Result (pCi/L, g, F)		0.227	0.231
LCS/LCSD 2 Sigma CSU (pCi/L, g, F)		4.015	4.559
Numerical Performance Indicator		-1.20	1.060
Percent Recovery		96.60%	96.50%
Status vs Numerical Indicator		N/A	36/A
Status vs Recovery		Pass	Pass
Upper % Recovery Limit		135%	135%
Lower % Recovery Limit		60%	60%

Duplicate Sample Assessment	
Sample ID	LCS60026
Duplicate Sample ID	LCS060026
Sample Result (pCi/L, g, F)	4.015
Sample Result 2 Sigma CSU (pCi/L, g, F)	0.969
Sample Duplicate Result (pCi/L, g, F)	4.609
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F)	1.090
Ave sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator	-0.735
(Based on the LCS/LCSD Percent Recovery)	10.80%
Duplicate Status vs Numerical Indicator	Pass
Duplicate Status vs RPD	Pass
% RPD Limit	36%

Sample Matrix Spike Control Assessment		MSI/MSD 1	MSI/MSD 2
Sample Collection Date			
Sample ID			
Sample MSU ID			
Sample MSD ID			
Spike ID			
MSI/MSD Decay Corrected Spike Concentration (pCi/mL)			
Spike Volume Used in MS (mL)			
Spike Volume Used in MSD (mL)			
MS Aliquot (L, g, F)			
MS Target Conc. (pCi/L, g, F)			
MSD Aliquot (L, g, F)			
MSD Target Conc. (pCi/L, g, F)			
MS Spike Uncertainty (calculated)			
MSD Spike Uncertainty (calculated)			
MSU Result			
MSD Result			
Sample Result 2 Sigma CSU (pCi/L, g, F)			
Sample Matrix Spike Result			
Sample Matrix Spike Duplicate Result			
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)			
MS Numerical Performance Indicator			
MSD Numerical Performance Indicator			
MS Percent Recovery			
MSD Percent Recovery			
MS Status vs Numerical Indicator			
MSD Status vs Numerical Indicator			
MS Status vs Recovery			
MSD Status vs Recovery			
MS/MSD Upper % Recovery Limit			
MS/MSD Lower % Recovery Limit			

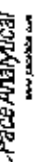
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID	
Sample MSU ID	
Sample MSD ID	
Sample Matrix Spike Result	
Sample Matrix Spike Duplicate Result	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	
Duplicate Numerical Performance Indicator	
(Based on the Percent Recovery)	
MSI/MSD Duplicate Status vs Numerical Indicator	
MSI/MSD Duplicate Status vs RPD	
% RPD Limit	

Comments:

* Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDCC.

Copy

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Re-228
 Analyst: VAL
 Date: 4/16/2021
 Worksheet: S9913
 Matrix: W/T

Method Blank Assessment	
MB Sample ID	2136547
MB Concentration:	0.751
MB 2 Sigma CSU:	0.461
MB MDIC:	0.850
MB Numerical Performance Indicator:	3.73
MB Status vs Numerical Indicator:	Fail
MB Status vs MDIC:	Pass

Laboratory Control Sample Assessment	LOSD (Y or N)?	
	LCSS9913	LCSS9913
Count Date:	4/20/2021	4/20/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.002	38.002
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.809
Target Conc. (pCi/L, g, F):	4.641	4.696
Uncertainty (calculated):	0.227	0.230
Result (pCi/L, g, F):	5.623	5.739
LCSS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.421	1.456
Numerical Performance Indicator:	1.20	1.39
Percent Recovery:	119.00%	122.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limit:	135%	135%
Lower % Recovery Limit:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCSS9913
Duplicate Sample I.D.:	LCSD59913
Sample Result (pCi/L, g, F):	5.523
Sample Duplicate Result (pCi/L, g, F):	1.421
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.739
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.456
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.208
Duplicate Percent Recoveries:	3.66%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	38%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDIC.

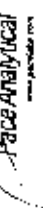
Comments: If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I/O Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Matrix Spike Duplicate Result Sample Matrix Spike Duplicate Result Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery MSD Percent Recovery MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limit: MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Percent Recoveries:	Duplicate Percent Recoveries:
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:	Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/13/2021
Worklist: 59736
Matrix: WT

Method Blank Assessment	
MB Sample ID	2132312
MB Concentration:	0.004
MB 2 Sigma CSU:	0.314
MB MOC:	0.739
MB Numerical Performance Indicator:	0.02
MB Status vs Numerical Indicator:	Pass
MB Status vs. MEDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD59736	LCSD59736
Count Date:	4/19/2021	4/19/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.014	38.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.409	0.813
Target Conc. (pCi/L, g, F):	4.700	4.677
Uncertainty (Calculated):	0.230	0.279
Result (pCi/L, g, F):	\$166	4.597
LCSD (pCi/L, g, F):	1.202	1.068
Numerical Performance Indicator:	0.75	-0.14
Percent Recovery:	109.97%	98.30%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	80%	60%

Duplicate Sample Assessment	LCSD (Y or N)?	
	LCSD59736	LCSD59736
Sample I.D.:	LCSD59736	LCSD59736
Duplicate Sample I.D.:	5.166	5.166
Sample Result (pCi/L, g, F):	1.202	1.202
Sample Duplicate Result (pCi/L, g, F):	4.597	4.597
Sample Duplicate Result 2 (pCi/L, g, F):	1.068	1.068
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	0.691	0.691
(Based on the LCSD Percent Recoveries) Duplicate RPD:	11.20%	11.20%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

⚠ Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDL.

Comments:

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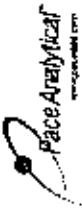
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay-Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

Quality Control Sample Performance Assessment

Analysis Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/12/2021
Worksheet: 59744
Matrix: WVT



Method Blank Assessment

MB Sample ID	2132379
MB Concentration:	-0.209
MB 2 Sigma CSU:	0.401
MB MDC:	0.975
MB Numerical Performance Indicator:	+1.02
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
LCSD 59744	4/15/2021
Count Date:	4/15/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.068
Volume Used (mL):	0.10
Alliquot Volume (L, g, F):	0.829
Target Conc. (pCi/L, g, F):	4.594
Uncertainty (Calculated):	0.230
Result (pCi/L, g, F):	4.357
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.039
Numerical Performance Indicator:	-0.62
Percent Recovery:	94.98%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	Pass
Upper % Recovery Limit:	135%
Lower % Recovery Limit:	50%

Duplicate Sample Assessment

Sample I.D.:	LCSD59744
Duplicate Sample I.D.:	LCSD59744
Sample Result (pCi/L, g, F):	4.357
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.039
Sample Duplicate Result (pCi/L, g, F):	4.366
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.032
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.013
Duplicate Percent Recoveries:	2.30%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment

Sample Collection Date:	MSRMSD 1	MSRMSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MSRMSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Paquet (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (Calculated):		
MSD Spike Uncertainty (Calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MSRMSD Upper % Recovery Limit:		
MSRMSD Lower % Recovery Limit:		

Matrix Spike/Matrix Duplicate Sample Assessment

Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate Percent Recoveries:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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April 27, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Dear Joju Abraham:

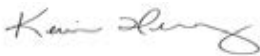
Enclosed are the analytical results for sample(s) received by the laboratory between March 26, 2021 and April 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529897001	BGWA-29	Water	03/23/21 13:30	03/26/21 09:20
92529897002	DUP-1	Water	03/23/21 00:00	03/26/21 09:20
92529897003	FB-1	Water	03/23/21 16:44	03/26/21 09:20
92529897004	BGWC-8	Water	03/24/21 13:00	03/26/21 09:20
92529897005	BGWC-9	Water	03/24/21 14:24	03/26/21 09:20
92529897006	BGWC-12	Water	03/24/21 15:22	03/26/21 09:20
92529897007	BGWC-14A	Water	03/24/21 16:27	03/26/21 09:20
92529897008	BGWC-16	Water	03/24/21 13:17	03/26/21 09:20
92529897009	BGWC-17	Water	03/24/21 14:27	03/26/21 09:20
92529897010	BGWC-18	Water	03/24/21 15:57	03/26/21 09:20
92529897011	FB-2	Water	03/24/21 16:22	03/26/21 09:20
92529897012	BGWA-47D	Water	03/25/21 16:03	03/26/21 09:20
92529897013	BGWA-48D	Water	03/25/21 11:36	03/26/21 09:20
92529897014	BGWC-30	Water	03/25/21 11:20	03/26/21 09:20
92529897015	BGWC-36D	Water	03/25/21 15:58	03/26/21 09:20
92529897016	FB-3	Water	03/25/21 16:30	03/26/21 09:20
92529897017	EB-1	Water	03/25/21 16:34	03/26/21 09:20
92529897018	BGWA-2	Water	03/26/21 10:35	03/26/21 16:32
92529897019	BGWC-19	Water	03/26/21 13:41	03/26/21 16:32
92529897020	BGWC-23	Water	03/26/21 11:49	03/26/21 16:32
92529897021	BGWC-24	Water	03/26/21 10:25	03/26/21 16:32
92529897022	BGWC-25	Water	03/26/21 12:23	03/26/21 16:32
92529897023	BGWC-35D	Water	03/26/21 14:02	03/26/21 16:32
92529897024	BGWC-37D	Water	03/26/21 12:41	03/26/21 16:32
92529897025	DUP-2	Water	03/26/21 00:00	03/26/21 16:32
92529897026	FB-4	Water	03/26/21 14:00	03/26/21 16:32
92529897027	BGWC-20	Water	03/29/21 16:03	03/31/21 09:38
92529897028	BGWC-21	Water	03/29/21 13:06	03/31/21 09:38
92529897029	BGWC-22	Water	03/29/21 11:52	03/31/21 09:38
92529897030	BGWC-31	Water	03/29/21 14:05	03/31/21 09:38
92529897031	BGWC-38D	Water	03/29/21 11:54	03/31/21 09:38
92529897032	BGWC-43D	Water	03/29/21 14:24	03/31/21 09:38
92529897033	FB-5	Water	03/29/21 15:36	03/31/21 09:38
92529897034	EB-2	Water	03/29/21 16:29	03/31/21 09:38
92529897035	BGWC-7	Water	03/30/21 09:35	03/31/21 09:38
92529897036	BGWC-10	Water	03/30/21 11:37	03/31/21 09:38
92529897037	BGWC-32	Water	03/30/21 12:31	03/31/21 09:38

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529897038	BGWC-34D	Water	03/30/21 15:02	03/31/21 09:38
92529897039	BGWC-40	Water	03/30/21 15:37	03/31/21 09:38
92529897040	BGWC-51	Water	03/30/21 14:34	03/31/21 09:38
92529897041	BGWC-52	Water	03/30/21 11:30	03/31/21 09:38
92529897042	DUP-3	Water	03/30/21 00:00	03/31/21 09:38
92529897043	FB-6	Water	03/30/21 16:38	03/31/21 09:38
92529897044	EB-3	Water	03/30/21 16:53	03/31/21 09:38
92529897045	BGWA-33	Water	04/01/21 09:45	04/02/21 10:36
92529897046	BGWC-42D	Water	04/01/21 11:05	04/02/21 10:36
92529897047	EB-5	Water	04/01/21 11:45	04/02/21 10:36
92529897048	FB-8	Water	04/01/21 11:50	04/02/21 10:36
92529897049	BGWA-6	Water	03/31/21 11:29	04/02/21 10:36
92529897050	BGWC-39	Water	03/31/21 10:02	04/02/21 10:36
92529897051	BGWC-41D	Water	03/31/21 13:52	04/02/21 10:36
92529897052	BGWC-44D	Water	03/31/21 14:17	04/02/21 10:36
92529897053	DUP-4	Water	03/31/21 00:00	04/02/21 10:36
92529897054	FB-7	Water	03/31/21 16:24	04/02/21 10:36
92529897055	EB-4	Water	03/31/21 16:28	04/02/21 10:36

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897001	BGWA-29	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897002	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897003	FB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897004	BGWC-8	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897005	BGWC-9	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897006	BGWC-12	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897007	BGWC-14A	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897008	BGWC-16	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897009	BGWC-17	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897010	BGWC-18	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897011	FB-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897012	BGWA-47D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897013	BGWA-48D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897014	BGWC-30	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897015	BGWC-36D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897016	FB-3	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897017	EB-1	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897018	BGWA-2	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897019	BGWC-19	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897020	BGWC-23	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897021	BGWC-24	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897022	BGWC-25	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897023	BGWC-35D	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897024	BGWC-37D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897025	DUP-2	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897026	FB-4	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897027	BGWC-20	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897028	BGWC-21	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897029	BGWC-22	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92529897030	BGWC-31	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 6010D	DRB	1
		EPA 300.0 Rev 2.1 1993	CDC, JLH	3

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897031	BGWC-38D	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897032	BGWC-43D	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC, JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897033	FB-5	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC, JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897034	EB-2	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897035	BGWC-7	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897036	BGWC-10	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897037	BGWC-32	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897038	BGWC-34D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897039	BGWC-40	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897040	BGWC-51	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897041	BGWC-52	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897042	DUP-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897043	FB-6	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897044	EB-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92529897045	BGWA-33	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897046	BGWC-42D	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897047	EB-5	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897048	FB-8	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92529897049	BGWA-6	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
92529897050	BGWC-39	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92529897051	BGWC-41D	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92529897052	BGWC-44D	SM 2540C-2011	ALW	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 6010D	DRB	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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SAMPLE ANALYTE COUNT

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92529897053	DUP-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897054	FB-7	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92529897055	EB-4	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897001	BGWA-29					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	8.00	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	22.1	mg/L	1.0	04/02/21 18:00	M1
EPA 6020B	Barium	0.013	mg/L	0.0050	04/05/21 15:49	
EPA 6020B	Chromium	0.00059J	mg/L	0.0050	04/05/21 15:49	
EPA 6020B	Lithium	0.00087J	mg/L	0.030	04/05/21 15:49	
SM 2540C-2011	Total Dissolved Solids	108	mg/L	10.0	03/31/21 17:14	H1
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/31/21 16:09	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	03/31/21 16:09	
92529897002	DUP-1					
EPA 6010D	Calcium	21.7	mg/L	1.0	04/02/21 18:29	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	04/05/21 15:55	
EPA 6020B	Barium	0.013	mg/L	0.0050	04/05/21 15:55	
EPA 6020B	Chromium	0.00060J	mg/L	0.0050	04/05/21 15:55	
EPA 6020B	Lithium	0.00088J	mg/L	0.030	04/05/21 15:55	
SM 2540C-2011	Total Dissolved Solids	116	mg/L	10.0	03/31/21 17:15	H1
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	04/01/21 09:18	
EPA 300.0 Rev 2.1 1993	Sulfate	3.7	mg/L	1.0	04/01/21 09:18	
92529897003	FB-1					
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	04/05/21 16:18	
EPA 6020B	Arsenic	0.00087J	mg/L	0.0050	04/05/21 16:18	
92529897004	BGWC-8					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.66	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	42.1	mg/L	1.0	04/02/21 18:39	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	04/05/21 16:23	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	04/05/21 16:23	
EPA 6020B	Barium	0.027	mg/L	0.0050	04/05/21 16:23	
EPA 6020B	Boron	0.040J	mg/L	0.040	04/05/21 16:23	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	04/05/21 16:23	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	04/05/21 16:23	
SM 2540C-2011	Total Dissolved Solids	198	mg/L	10.0	03/31/21 17:15	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	04/01/21 10:18	
EPA 300.0 Rev 2.1 1993	Sulfate	24.2	mg/L	1.0	04/01/21 10:18	
92529897005	BGWC-9					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.26	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	59.9	mg/L	1.0	04/02/21 18:43	
EPA 6020B	Antimony	0.00038J	mg/L	0.0030	04/05/21 16:29	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	04/05/21 16:29	
EPA 6020B	Barium	0.026	mg/L	0.0050	04/05/21 16:29	
EPA 6020B	Boron	0.45	mg/L	0.040	04/05/21 16:29	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	04/05/21 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897005	BGWC-9					
EPA 6020B	Molybdenum	0.0027J	mg/L	0.010	04/05/21 16:29	
SM 2540C-2011	Total Dissolved Solids	294	mg/L	10.0	03/31/21 17:15	
EPA 300.0 Rev 2.1 1993	Chloride	8.0	mg/L	1.0	04/01/21 10:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	04/01/21 10:33	
EPA 300.0 Rev 2.1 1993	Sulfate	70.5	mg/L	1.0	04/01/21 10:33	
92529897006	BGWC-12					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.04	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	144	mg/L	1.0	04/02/21 18:48	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	04/05/21 17:06	
EPA 6020B	Barium	0.039	mg/L	0.0050	04/05/21 17:06	
EPA 6020B	Boron	1.2	mg/L	0.040	04/05/21 17:06	
EPA 6020B	Chromium	0.00079J	mg/L	0.0050	04/05/21 17:06	
EPA 6020B	Cobalt	0.00048J	mg/L	0.0050	04/05/21 17:06	
EPA 6020B	Lead	0.00013J	mg/L	0.0010	04/05/21 17:06	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	04/05/21 17:06	
SM 2540C-2011	Total Dissolved Solids	752	mg/L	20.0	03/31/21 17:15	
EPA 300.0 Rev 2.1 1993	Chloride	18.4	mg/L	1.0	04/01/21 10:48	
EPA 300.0 Rev 2.1 1993	Sulfate	301	mg/L	7.0	04/01/21 15:16	
92529897007	BGWC-14A					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.04	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	91.9	mg/L	1.0	04/02/21 18:53	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	04/05/21 17:12	
EPA 6020B	Barium	0.032	mg/L	0.0050	04/05/21 17:12	
EPA 6020B	Boron	0.60	mg/L	0.040	04/05/21 17:12	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	04/05/21 17:12	
EPA 6020B	Thallium	0.00023J	mg/L	0.0010	04/05/21 17:12	
SM 2540C-2011	Total Dissolved Solids	445	mg/L	10.0	03/31/21 17:15	
EPA 300.0 Rev 2.1 1993	Chloride	14.1	mg/L	1.0	04/01/21 11:03	
EPA 300.0 Rev 2.1 1993	Sulfate	115	mg/L	2.0	04/01/21 16:01	
92529897008	BGWC-16					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	6.70	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	140	mg/L	1.0	04/02/21 18:58	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	04/05/21 17:18	
EPA 6020B	Barium	0.028	mg/L	0.0050	04/05/21 17:18	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	04/05/21 17:18	
EPA 6020B	Boron	1.3	mg/L	0.040	04/05/21 17:18	
EPA 6020B	Cadmium	0.0018	mg/L	0.00050	04/05/21 17:18	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	04/05/21 17:18	
EPA 6020B	Lead	0.000080J	mg/L	0.0010	04/05/21 17:18	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	04/05/21 17:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897008	BGWC-16					
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	04/05/21 17:18	
SM 2540C-2011	Total Dissolved Solids	610	mg/L	20.0	03/31/21 17:15	
EPA 300.0 Rev 2.1 1993	Chloride	24.0	mg/L	1.0	04/01/21 11:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	04/01/21 11:18	
EPA 300.0 Rev 2.1 1993	Sulfate	317	mg/L	7.0	04/01/21 16:16	M6
92529897009	BGWC-17					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.27	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	72.0	mg/L	1.0	04/02/21 19:12	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	04/05/21 17:24	
EPA 6020B	Barium	0.018	mg/L	0.0050	04/05/21 17:24	
EPA 6020B	Boron	1.1	mg/L	0.040	04/05/21 17:24	
EPA 7470A	Mercury	0.00012J	mg/L	0.00020	04/07/21 10:44	
SM 2540C-2011	Total Dissolved Solids	374	mg/L	10.0	03/31/21 17:16	
EPA 300.0 Rev 2.1 1993	Chloride	35.6	mg/L	1.0	04/01/21 12:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	04/01/21 12:03	
EPA 300.0 Rev 2.1 1993	Sulfate	93.7	mg/L	2.0	04/01/21 17:00	
92529897010	BGWC-18					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	6.48	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	48.2	mg/L	1.0	04/02/21 19:17	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	04/05/21 17:30	
EPA 6020B	Barium	0.031	mg/L	0.0050	04/05/21 17:30	
EPA 6020B	Beryllium	0.000061J	mg/L	0.00050	04/05/21 17:30	
EPA 6020B	Boron	0.50	mg/L	0.040	04/05/21 17:30	
EPA 6020B	Chromium	0.00065J	mg/L	0.0050	04/05/21 17:30	
SM 2540C-2011	Total Dissolved Solids	240	mg/L	10.0	03/31/21 17:16	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	04/01/21 12:18	
EPA 300.0 Rev 2.1 1993	Sulfate	67.3	mg/L	1.0	04/01/21 12:18	
92529897011	FB-2					
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	04/05/21 17:35	
SM 2540C-2011	Total Dissolved Solids	10.0	mg/L	10.0	03/31/21 17:16	
92529897012	BGWA-47D					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	6.94	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	109	mg/L	1.0	04/02/21 19:26	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	04/05/21 17:41	
EPA 6020B	Barium	0.057	mg/L	0.0050	04/05/21 17:41	
EPA 6020B	Boron	0.017J	mg/L	0.040	04/05/21 17:41	
EPA 6020B	Selenium	0.0020J	mg/L	0.0050	04/05/21 17:41	
SM 2540C-2011	Total Dissolved Solids	415	mg/L	10.0	03/31/21 17:17	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	04/01/21 13:17	
EPA 300.0 Rev 2.1 1993	Sulfate	74.5	mg/L	1.0	04/01/21 13:17	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897013	BGWA-48D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.22	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	68.3	mg/L	1.0	04/02/21 19:31	
EPA 6020B	Antimony	0.00080J	mg/L	0.0030	04/05/21 18:02	
EPA 6020B	Arsenic	0.0042J	mg/L	0.0050	04/05/21 18:02	
EPA 6020B	Barium	0.091	mg/L	0.0050	04/05/21 18:02	
EPA 6020B	Boron	0.026J	mg/L	0.040	04/05/21 18:02	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	04/05/21 18:02	
EPA 6020B	Molybdenum	0.0015J	mg/L	0.010	04/05/21 18:02	
SM 2540C-2011	Total Dissolved Solids	331	mg/L	10.0	03/31/21 17:17	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	04/01/21 13:32	
EPA 300.0 Rev 2.1 1993	Sulfate	22.0	mg/L	1.0	04/01/21 13:32	
92529897014	BGWC-30					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.21	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	81.1	mg/L	1.0	04/02/21 19:36	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	04/05/21 18:08	
EPA 6020B	Barium	0.060	mg/L	0.0050	04/05/21 18:08	
EPA 6020B	Boron	1.1	mg/L	0.040	04/05/21 18:08	
EPA 6020B	Chromium	0.00082J	mg/L	0.0050	04/05/21 18:08	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	04/05/21 18:08	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	04/05/21 18:08	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	04/05/21 18:08	
SM 2540C-2011	Total Dissolved Solids	358	mg/L	10.0	04/01/21 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	85.5	mg/L	1.0	04/01/21 13:47	
EPA 300.0 Rev 2.1 1993	Sulfate	28.1	mg/L	1.0	04/01/21 13:47	
92529897015	BGWC-36D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.27	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	162	mg/L	1.0	04/02/21 19:41	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	04/05/21 18:14	
EPA 6020B	Barium	0.073	mg/L	0.0050	04/05/21 18:14	
EPA 6020B	Boron	5.9	mg/L	0.040	04/05/21 18:14	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	04/05/21 18:14	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	04/05/21 18:14	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	04/05/21 18:14	
EPA 6020B	Selenium	0.012	mg/L	0.0050	04/05/21 18:14	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	04/05/21 18:14	
SM 2540C-2011	Total Dissolved Solids	902	mg/L	20.0	04/01/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	248	mg/L	6.0	04/03/21 14:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	04/03/21 00:43	
EPA 300.0 Rev 2.1 1993	Sulfate	137	mg/L	6.0	04/03/21 14:44	

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897016	FB-3					
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	04/05/21 18:19	
EPA 6020B	Boron	0.018J	mg/L	0.040	04/05/21 18:19	
92529897017	EB-1					
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	04/05/21 18:28	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	04/05/21 18:28	
92529897018	BGWA-2					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.63	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	46.7	mg/L	1.0	04/06/21 15:53	M1
EPA 6020B	Barium	0.14	mg/L	0.025	04/08/21 14:51	
EPA 6020B	Boron	0.0094J	mg/L	0.040	04/07/21 20:32	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	04/07/21 20:32	
EPA 6020B	Chromium	0.00071J	mg/L	0.0050	04/07/21 20:32	
EPA 6020B	Lead	0.000068J	mg/L	0.0010	04/07/21 20:32	
EPA 6020B	Molybdenum	0.00092J	mg/L	0.010	04/07/21 20:32	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	04/07/21 20:32	
SM 2540C-2011	Total Dissolved Solids	204	mg/L	10.0	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	04/03/21 01:25	
EPA 300.0 Rev 2.1 1993	Sulfate	12.8	mg/L	1.0	04/03/21 01:25	
92529897019	BGWC-19					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.61	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	46.4	mg/L	1.0	04/06/21 16:13	
EPA 6020B	Barium	0.028	mg/L	0.025	04/08/21 14:57	
EPA 6020B	Beryllium	0.000055J	mg/L	0.00050	04/07/21 20:38	
EPA 6020B	Boron	0.24	mg/L	0.040	04/07/21 20:38	
SM 2540C-2011	Total Dissolved Solids	205	mg/L	10.0	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	5.8	mg/L	1.0	04/03/21 01:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	04/03/21 01:39	
EPA 300.0 Rev 2.1 1993	Sulfate	66.8	mg/L	1.0	04/03/21 01:39	
92529897020	BGWC-23					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.91	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	717	mg/L	50.0	04/07/21 12:42	
EPA 6020B	Barium	0.12	mg/L	0.050	04/08/21 15:08	
EPA 6020B	Boron	15.8	mg/L	0.40	04/08/21 15:08	
EPA 6020B	Lead	0.00031J	mg/L	0.0010	04/07/21 21:01	
EPA 6020B	Lithium	0.039J	mg/L	0.30	04/08/21 15:08	D3
EPA 6020B	Molybdenum	0.011J	mg/L	0.10	04/08/21 15:08	D3
EPA 6020B	Thallium	0.00069J	mg/L	0.0010	04/07/21 21:01	
SM 2540C-2011	Total Dissolved Solids	2690	mg/L	100	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	928	mg/L	84.0	04/03/21 14:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.054J	mg/L	0.10	04/03/21 01:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897020	BGWC-23					
EPA 300.0 Rev 2.1 1993	Sulfate	679	mg/L	84.0	04/03/21 14:58	
92529897021	BGWC-24					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.54	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	821	mg/L	50.0	04/07/21 12:47	
EPA 6020B	Barium	0.075	mg/L	0.050	04/08/21 15:23	
EPA 6020B	Boron	31.0	mg/L	0.40	04/08/21 15:23	
EPA 6020B	Cadmium	0.0062	mg/L	0.0050	04/08/21 15:23	
EPA 6020B	Lead	0.000071J	mg/L	0.0010	04/07/21 21:06	
EPA 6020B	Thallium	0.00057J	mg/L	0.0010	04/07/21 21:06	
EPA 7470A	Mercury	0.0058	mg/L	0.00020	04/07/21 11:29	
SM 2540C-2011	Total Dissolved Solids	3070	mg/L	100	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	1240	mg/L	100	04/03/21 15:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	04/03/21 02:07	
EPA 300.0 Rev 2.1 1993	Sulfate	515	mg/L	100	04/03/21 15:12	
92529897022	BGWC-25					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.36	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	52.8	mg/L	1.0	04/06/21 16:27	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	04/07/21 21:12	
EPA 6020B	Barium	0.018	mg/L	0.0050	04/08/21 15:29	
EPA 6020B	Boron	0.17	mg/L	0.040	04/07/21 21:12	
EPA 6020B	Lead	0.00013J	mg/L	0.0010	04/07/21 21:12	
SM 2540C-2011	Total Dissolved Solids	215	mg/L	10.0	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	04/03/21 02:21	
EPA 300.0 Rev 2.1 1993	Sulfate	21.3	mg/L	1.0	04/03/21 02:21	
92529897023	BGWC-35D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.02	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	529	mg/L	50.0	04/07/21 12:51	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	04/07/21 21:29	
EPA 6020B	Barium	0.070	mg/L	0.050	04/08/21 15:40	
EPA 6020B	Boron	11.2	mg/L	0.40	04/08/21 15:40	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	04/07/21 21:29	
EPA 6020B	Lithium	0.020J	mg/L	0.030	04/07/21 21:29	
EPA 6020B	Molybdenum	0.036	mg/L	0.010	04/07/21 21:29	
SM 2540C-2011	Total Dissolved Solids	2220	mg/L	100	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	696	mg/L	100	04/03/21 15:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	04/03/21 03:31	
EPA 300.0 Rev 2.1 1993	Sulfate	647	mg/L	100	04/03/21 15:25	
92529897024	BGWC-37D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897024	BGWC-37D					
	pH	7.14	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	103	mg/L	1.0	04/06/21 16:53	
EPA 6020B	Arsenic	0.013	mg/L	0.0050	04/07/21 21:35	
EPA 6020B	Barium	0.089	mg/L	0.050	04/08/21 15:46	
EPA 6020B	Boron	1.5	mg/L	0.40	04/08/21 15:46	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	04/07/21 21:35	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	04/07/21 21:35	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	04/07/21 21:35	
SM 2540C-2011	Total Dissolved Solids	496	mg/L	20.0	04/01/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	87.7	mg/L	3.0	04/03/21 15:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	04/03/21 03:45	
EPA 300.0 Rev 2.1 1993	Sulfate	150	mg/L	3.0	04/03/21 15:41	
92529897025	DUP-2					
EPA 6010D	Calcium	834	mg/L	50.0	04/07/21 12:56	
EPA 6020B	Barium	0.076	mg/L	0.050	04/08/21 16:16	
EPA 6020B	Boron	27.3	mg/L	0.40	04/08/21 16:16	
EPA 6020B	Cadmium	0.0060	mg/L	0.0050	04/08/21 16:16	
EPA 6020B	Lead	0.000052J	mg/L	0.0010	04/07/21 21:41	
EPA 6020B	Thallium	0.00054J	mg/L	0.0010	04/07/21 21:41	
EPA 7470A	Mercury	0.0059	mg/L	0.00020	04/09/21 11:05	
SM 2540C-2011	Total Dissolved Solids	3650	mg/L	100	04/01/21 18:15	
EPA 300.0 Rev 2.1 1993	Chloride	1210	mg/L	100	04/03/21 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	04/03/21 03:59	
EPA 300.0 Rev 2.1 1993	Sulfate	506	mg/L	100	04/03/21 15:54	
92529897026	FB-4					
EPA 6020B	Boron	0.010J	mg/L	0.040	04/08/21 16:21	
SM 2540C-2011	Total Dissolved Solids	27.0	mg/L	10.0	04/01/21 18:15	
92529897027	BGWC-20					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.24	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	296	mg/L	1.0	04/06/21 17:08	
EPA 6020B	Barium	0.033	mg/L	0.025	04/08/21 16:27	
EPA 6020B	Boron	4.1	mg/L	0.20	04/08/21 16:27	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	04/07/21 21:52	
EPA 6020B	Lithium	0.036	mg/L	0.030	04/07/21 21:52	
EPA 6020B	Molybdenum	0.024	mg/L	0.010	04/07/21 21:52	
SM 2540C-2011	Total Dissolved Solids	1100	mg/L	50.0	04/05/21 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	131	mg/L	12.0	04/05/21 03:11	
EPA 300.0 Rev 2.1 1993	Sulfate	504	mg/L	12.0	04/05/21 03:11	
92529897028	BGWC-21					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.75	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	46.6	mg/L	1.0	04/06/21 17:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897028	BGWC-21					
EPA 6020B	Barium	0.025	mg/L	0.0050	04/08/21 16:33	
EPA 6020B	Boron	0.038J	mg/L	0.040	04/08/21 16:33	
EPA 6020B	Chromium	0.0025J	mg/L	0.0050	04/07/21 21:58	
EPA 6020B	Cobalt	0.00069J	mg/L	0.0050	04/07/21 21:58	
EPA 6020B	Lead	0.000094J	mg/L	0.0010	04/07/21 21:58	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	04/07/21 21:58	
SM 2540C-2011	Total Dissolved Solids	198	mg/L	10.0	04/05/21 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	04/04/21 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	55.2	mg/L	1.0	04/04/21 23:14	
92529897029	BGWC-22					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.71	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	714	mg/L	50.0	04/07/21 13:01	
EPA 6020B	Barium	0.079	mg/L	0.050	04/08/21 16:39	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	04/07/21 22:04	
EPA 6020B	Boron	17.3	mg/L	0.40	04/08/21 16:39	
EPA 6020B	Cobalt	0.029J	mg/L	0.050	04/08/21 16:39	D3
EPA 6020B	Lead	0.000061J	mg/L	0.0010	04/07/21 22:04	
EPA 6020B	Lithium	0.033	mg/L	0.030	04/07/21 22:04	
EPA 6020B	Molybdenum	0.045	mg/L	0.010	04/07/21 22:04	
EPA 6020B	Thallium	0.00090J	mg/L	0.0010	04/07/21 22:04	
SM 2540C-2011	Total Dissolved Solids	2430	mg/L	100	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	886	mg/L	16.0	04/06/21 22:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	04/04/21 23:59	
EPA 300.0 Rev 2.1 1993	Sulfate	772	mg/L	16.0	04/06/21 22:30	
92529897030	BGWC-31					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.97	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	77.2	mg/L	1.0	04/06/21 17:22	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	04/07/21 22:09	
EPA 6020B	Barium	0.039	mg/L	0.025	04/08/21 16:44	
EPA 6020B	Boron	0.70	mg/L	0.20	04/08/21 16:44	
EPA 6020B	Lead	0.00061J	mg/L	0.0010	04/07/21 22:09	
SM 2540C-2011	Total Dissolved Solids	352	mg/L	10.0	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	9.4	mg/L	1.0	04/05/21 00:14	
EPA 300.0 Rev 2.1 1993	Sulfate	35.9	mg/L	1.0	04/05/21 00:14	
92529897031	BGWC-38D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.02	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	161	mg/L	1.0	04/06/21 17:27	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	04/07/21 22:15	
EPA 6020B	Barium	0.082	mg/L	0.050	04/08/21 16:50	
EPA 6020B	Boron	6.8	mg/L	0.40	04/08/21 16:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897031	BGWC-38D					
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	04/07/21 22:15	
EPA 6020B	Lithium	0.012J	mg/L	0.030	04/07/21 22:15	
EPA 6020B	Molybdenum	0.13	mg/L	0.010	04/07/21 22:15	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	04/07/21 22:15	
SM 2540C-2011	Total Dissolved Solids	702	mg/L	20.0	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	227	mg/L	5.0	04/06/21 22:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.73	mg/L	0.10	04/05/21 00:29	
EPA 300.0 Rev 2.1 1993	Sulfate	136	mg/L	5.0	04/06/21 22:44	
92529897032	BGWC-43D					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.02	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	326	mg/L	50.0	04/07/21 13:06	
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	04/07/21 22:21	
EPA 6020B	Barium	0.065	mg/L	0.050	04/08/21 16:56	
EPA 6020B	Boron	12.8	mg/L	0.40	04/08/21 16:56	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	04/07/21 22:21	
EPA 6020B	Cobalt	0.0057	mg/L	0.0050	04/07/21 22:21	
EPA 6020B	Lithium	0.026J	mg/L	0.030	04/07/21 22:21	
EPA 6020B	Molybdenum	0.21	mg/L	0.010	04/07/21 22:21	
EPA 6020B	Thallium	0.0016	mg/L	0.0010	04/07/21 22:21	
SM 2540C-2011	Total Dissolved Solids	700	mg/L	100	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	443	mg/L	10.0	04/06/21 22:59	
EPA 300.0 Rev 2.1 1993	Fluoride	1.0	mg/L	0.10	04/05/21 00:43	
EPA 300.0 Rev 2.1 1993	Sulfate	301	mg/L	10.0	04/06/21 22:59	
92529897033	FB-5					
EPA 6020B	Boron	0.012J	mg/L	0.040	04/07/21 22:38	
92529897034	EB-2					
EPA 6020B	Boron	0.0083J	mg/L	0.040	04/07/21 22:44	
92529897035	BGWC-7					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.05	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	145	mg/L	1.0	04/06/21 18:04	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	04/07/21 22:49	
EPA 6020B	Barium	0.035	mg/L	0.0050	04/07/21 22:49	
EPA 6020B	Boron	1.4	mg/L	0.40	04/08/21 17:02	
EPA 6020B	Chromium	0.00095J	mg/L	0.0050	04/07/21 22:49	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	04/07/21 22:49	
EPA 6020B	Lithium	0.0084J	mg/L	0.030	04/07/21 22:49	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	04/07/21 22:49	
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	04/07/21 22:49	
SM 2540C-2011	Total Dissolved Solids	570	mg/L	20.0	04/05/21 18:13	D6
EPA 300.0 Rev 2.1 1993	Chloride	8.8	mg/L	1.0	04/04/21 23:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	04/04/21 23:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897035	BGWC-7					
EPA 300.0 Rev 2.1 1993	Sulfate	290	mg/L	6.0	04/05/21 04:38	
92529897036	BGWC-10					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.41	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	61.3	mg/L	1.0	04/06/21 18:09	
EPA 6020B	Arsenic	0.0053	mg/L	0.0050	04/07/21 22:55	
EPA 6020B	Barium	0.041	mg/L	0.0050	04/07/21 22:55	
EPA 6020B	Boron	0.56	mg/L	0.40	04/08/21 17:07	
EPA 6020B	Cobalt	0.00052J	mg/L	0.0050	04/07/21 22:55	
EPA 6020B	Lithium	0.00092J	mg/L	0.030	04/07/21 22:55	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	04/07/21 22:55	
SM 2540C-2011	Total Dissolved Solids	321	mg/L	10.0	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	23.8	mg/L	1.0	04/04/21 23:56	
EPA 300.0 Rev 2.1 1993	Sulfate	104	mg/L	2.0	04/05/21 04:55	
92529897037	BGWC-32					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.07	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	289	mg/L	1.0	04/06/21 18:14	
EPA 6020B	Barium	0.13	mg/L	0.0050	04/07/21 23:01	
EPA 6020B	Boron	5.2	mg/L	2.0	04/08/21 17:24	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	04/07/21 23:01	
EPA 6020B	Molybdenum	0.0037J	mg/L	0.010	04/07/21 23:01	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	04/07/21 23:01	
SM 2540C-2011	Total Dissolved Solids	1030	mg/L	100	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	355	mg/L	8.0	04/05/21 05:09	M6
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	04/05/21 00:09	
EPA 300.0 Rev 2.1 1993	Sulfate	368	mg/L	8.0	04/05/21 05:09	
92529897038	BGWC-34D					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	7.19	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	112	mg/L	1.0	04/06/21 13:22	M1
EPA 6020B	Antimony	0.00079J	mg/L	0.0030	04/12/21 14:37	B
EPA 6020B	Arsenic	0.016	mg/L	0.0050	04/12/21 14:37	
EPA 6020B	Barium	0.048	mg/L	0.0050	04/12/21 14:37	
EPA 6020B	Boron	0.27	mg/L	0.040	04/12/21 14:37	
EPA 6020B	Cobalt	0.00065J	mg/L	0.0050	04/12/21 14:37	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	04/12/21 14:37	
SM 2540C-2011	Total Dissolved Solids	346	mg/L	10.0	04/05/21 18:13	
EPA 300.0 Rev 2.1 1993	Chloride	37.2	mg/L	1.0	04/05/21 01:19	
EPA 300.0 Rev 2.1 1993	Sulfate	127	mg/L	3.0	04/05/21 05:52	
92529897039	BGWC-40					
	Performed by	CUSTOME			04/20/21 08:25	
		R				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897039	BGWC-40					
	pH	7.04	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	158	mg/L	1.0	04/06/21 13:41	
EPA 6020B	Antimony	0.00050J	mg/L	0.0030	04/12/21 14:43	B
EPA 6020B	Barium	0.060	mg/L	0.0050	04/12/21 14:43	
EPA 6020B	Boron	3.6	mg/L	0.040	04/12/21 14:43	
EPA 6020B	Chromium	0.00081J	mg/L	0.0050	04/12/21 14:43	
EPA 6020B	Cobalt	0.00052J	mg/L	0.0050	04/12/21 14:43	
EPA 6020B	Lead	0.00018J	mg/L	0.0010	04/12/21 14:43	
EPA 6020B	Lithium	0.00086J	mg/L	0.030	04/12/21 14:43	
EPA 6020B	Selenium	0.0098	mg/L	0.0050	04/13/21 17:51	
SM 2540C-2011	Total Dissolved Solids	582	mg/L	20.0	04/05/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	175	mg/L	4.0	04/05/21 06:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	04/05/21 01:33	
EPA 300.0 Rev 2.1 1993	Sulfate	144	mg/L	4.0	04/05/21 06:36	
92529897040	BGWC-51					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.64	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	562	mg/L	10.0	04/06/21 18:28	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	04/12/21 15:06	B
EPA 6020B	Arsenic	0.0065J	mg/L	0.025	04/13/21 17:57	D3
EPA 6020B	Barium	0.051	mg/L	0.0050	04/12/21 15:06	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	04/12/21 15:06	
EPA 6020B	Boron	23.3	mg/L	0.20	04/13/21 17:57	
EPA 6020B	Cadmium	0.00070	mg/L	0.00050	04/12/21 15:06	
EPA 6020B	Lead	0.00022J	mg/L	0.0010	04/12/21 15:06	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	04/12/21 15:06	
EPA 6020B	Molybdenum	0.0027J	mg/L	0.010	04/12/21 15:06	
EPA 6020B	Selenium	0.010J	mg/L	0.025	04/13/21 17:57	D3
EPA 6020B	Thallium	0.00040J	mg/L	0.0010	04/12/21 15:06	
EPA 7470A	Mercury	0.0020	mg/L	0.00020	04/20/21 16:31	
SM 2540C-2011	Total Dissolved Solids	1980	mg/L	100	04/05/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	772	mg/L	97.0	04/05/21 06:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	04/05/21 01:47	
EPA 300.0 Rev 2.1 1993	Sulfate	636	mg/L	97.0	04/05/21 06:50	
92529897041	BGWC-52					
	Performed by	CUSTOME			04/20/21 08:25	
		R				
	pH	6.82	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	353	mg/L	10.0	04/06/21 18:33	
EPA 6020B	Antimony	0.00085J	mg/L	0.0030	04/12/21 15:11	B
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	04/12/21 15:11	
EPA 6020B	Barium	0.084	mg/L	0.0050	04/12/21 15:11	
EPA 6020B	Beryllium	0.000052J	mg/L	0.00050	04/12/21 15:11	
EPA 6020B	Boron	9.7	mg/L	0.040	04/12/21 15:11	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	04/12/21 15:11	
EPA 6020B	Chromium	0.00061J	mg/L	0.0050	04/12/21 15:11	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897041	BGWC-52					
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	04/12/21 15:11	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	04/12/21 15:11	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	04/12/21 15:11	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	04/12/21 15:11	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	04/12/21 15:11	
SM 2540C-2011	Total Dissolved Solids	1170	mg/L	100	04/05/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	472	mg/L	10.0	04/05/21 07:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	04/05/21 02:01	
EPA 300.0 Rev 2.1 1993	Sulfate	347	mg/L	10.0	04/05/21 07:04	
92529897042	DUP-3					
EPA 6010D	Calcium	154	mg/L	1.0	04/06/21 14:05	
EPA 6020B	Antimony	0.00057J	mg/L	0.0030	04/12/21 15:17	B
EPA 6020B	Barium	0.061	mg/L	0.0050	04/12/21 15:17	
EPA 6020B	Boron	3.7	mg/L	0.040	04/12/21 15:17	
EPA 6020B	Chromium	0.00070J	mg/L	0.0050	04/12/21 15:17	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	04/12/21 15:17	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	04/12/21 15:17	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	04/12/21 15:17	
EPA 6020B	Selenium	0.0093	mg/L	0.0050	04/13/21 18:08	
SM 2540C-2011	Total Dissolved Solids	620	mg/L	20.0	04/05/21 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	176	mg/L	4.0	04/05/21 07:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	04/05/21 02:15	
EPA 300.0 Rev 2.1 1993	Sulfate	145	mg/L	4.0	04/05/21 07:19	
92529897043	FB-6					
EPA 6020B	Antimony	0.00047J	mg/L	0.0030	04/12/21 15:57	B
92529897045	BGWA-33					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.75	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	49.5	mg/L	1.0	04/06/21 14:20	
EPA 6020B	Antimony	0.0020J	mg/L	0.0030	04/12/21 16:09	B
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	04/12/21 16:09	
EPA 6020B	Barium	0.035	mg/L	0.0050	04/12/21 16:09	
EPA 6020B	Boron	0.0069J	mg/L	0.040	04/12/21 16:09	
EPA 6020B	Chromium	0.00076J	mg/L	0.0050	04/12/21 16:09	
EPA 6020B	Molybdenum	0.026	mg/L	0.010	04/12/21 16:09	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	04/12/21 16:09	
SM 2540C-2011	Total Dissolved Solids	183	mg/L	10.0	04/06/21 09:41	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	04/05/21 02:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	04/05/21 02:56	
EPA 300.0 Rev 2.1 1993	Sulfate	24.6	mg/L	1.0	04/05/21 02:56	
92529897046	BGWC-42D					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.44	Std. Units		04/20/21 08:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897046	BGWC-42D					
EPA 6010D	Calcium	94.0	mg/L	1.0	04/06/21 14:25	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	04/12/21 16:14	B
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	04/12/21 16:14	
EPA 6020B	Barium	0.058	mg/L	0.0050	04/12/21 16:14	
EPA 6020B	Boron	1.9	mg/L	0.040	04/12/21 16:14	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	04/12/21 16:14	
EPA 6020B	Lead	0.000044J	mg/L	0.0010	04/12/21 16:14	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	04/12/21 16:14	
EPA 6020B	Molybdenum	0.0059J	mg/L	0.010	04/12/21 16:14	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	04/12/21 16:14	
SM 2540C-2011	Total Dissolved Solids	502	mg/L	20.0	04/06/21 09:41	
EPA 300.0 Rev 2.1 1993	Chloride	98.2	mg/L	1.0	04/05/21 03:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.72	mg/L	0.10	04/05/21 03:38	
EPA 300.0 Rev 2.1 1993	Sulfate	115	mg/L	2.0	04/05/21 07:35	
92529897047	EB-5					
EPA 6020B	Boron	0.0059J	mg/L	0.040	04/12/21 16:20	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	04/12/21 16:20	
92529897049	BGWA-6					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.17	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	63.4	mg/L	1.0	04/06/21 14:39	
EPA 6020B	Barium	0.052	mg/L	0.0050	04/12/21 16:32	
EPA 6020B	Boron	0.013J	mg/L	0.040	04/12/21 16:32	
EPA 6020B	Cobalt	0.00094J	mg/L	0.0050	04/12/21 16:32	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	04/12/21 16:32	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	04/12/21 16:32	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	04/12/21 16:32	
EPA 6020B	Selenium	0.0032J	mg/L	0.0050	04/12/21 16:32	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	04/12/21 16:32	
SM 2540C-2011	Total Dissolved Solids	299	mg/L	10.0	04/06/21 09:39	
EPA 300.0 Rev 2.1 1993	Chloride	13.4	mg/L	1.0	04/06/21 13:37	
EPA 300.0 Rev 2.1 1993	Sulfate	21.9	mg/L	1.0	04/06/21 13:37	
92529897050	BGWC-39					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	6.80	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	336	mg/L	10.0	04/06/21 18:38	
EPA 6020B	Barium	0.060	mg/L	0.0050	04/12/21 16:37	
EPA 6020B	Boron	6.7	mg/L	0.040	04/12/21 16:37	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	04/12/21 16:37	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	04/12/21 16:37	
EPA 6020B	Molybdenum	0.0062J	mg/L	0.010	04/12/21 16:37	
EPA 6020B	Selenium	0.0020J	mg/L	0.0050	04/12/21 16:37	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	04/12/21 16:37	
SM 2540C-2011	Total Dissolved Solids	1060	mg/L	100	04/06/21 09:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92529897050	BGWC-39					
EPA 300.0 Rev 2.1 1993	Chloride	337	mg/L	7.0	04/06/21 20:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	04/06/21 13:52	
EPA 300.0 Rev 2.1 1993	Sulfate	314	mg/L	7.0	04/06/21 20:02	
92529897051	BGWC-41D					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.44	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	166	mg/L	1.0	04/06/21 14:59	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	04/12/21 16:43	
EPA 6020B	Barium	0.058	mg/L	0.0050	04/12/21 16:43	
EPA 6020B	Boron	1.1	mg/L	0.040	04/12/21 16:43	
EPA 6020B	Chromium	0.00068J	mg/L	0.0050	04/12/21 16:43	
EPA 6020B	Lead	0.000036J	mg/L	0.0010	04/12/21 16:43	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	04/12/21 16:43	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	04/12/21 16:43	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	04/12/21 16:43	
SM 2540C-2011	Total Dissolved Solids	1010	mg/L	50.0	04/06/21 09:40	D6
EPA 300.0 Rev 2.1 1993	Chloride	261	mg/L	6.0	04/06/21 20:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	04/06/21 14:07	
EPA 300.0 Rev 2.1 1993	Sulfate	262	mg/L	6.0	04/06/21 20:47	
92529897052	BGWC-44D					
	Performed by	CUSTOMER			04/20/21 08:25	
	pH	7.40	Std. Units		04/20/21 08:25	
EPA 6010D	Calcium	50.9	mg/L	1.0	04/06/21 15:04	
EPA 6020B	Antimony	0.0026J	mg/L	0.0030	04/12/21 16:49	B
EPA 6020B	Arsenic	0.0043J	mg/L	0.0050	04/12/21 16:49	
EPA 6020B	Barium	0.025	mg/L	0.0050	04/12/21 16:49	
EPA 6020B	Boron	0.038J	mg/L	0.040	04/12/21 16:49	
EPA 6020B	Chromium	0.00094J	mg/L	0.0050	04/12/21 16:49	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	04/12/21 16:49	
EPA 6020B	Molybdenum	0.0023J	mg/L	0.010	04/12/21 16:49	
SM 2540C-2011	Total Dissolved Solids	308	mg/L	10.0	04/06/21 09:40	
EPA 300.0 Rev 2.1 1993	Chloride	21.9	mg/L	1.0	04/06/21 14:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	04/06/21 14:52	
EPA 300.0 Rev 2.1 1993	Sulfate	42.9	mg/L	1.0	04/06/21 14:52	
92529897053	DUP-4					
EPA 6010D	Calcium	51.2	mg/L	1.0	04/06/21 18:23	
EPA 6020B	Antimony	0.0025J	mg/L	0.0030	04/12/21 17:43	B
EPA 6020B	Arsenic	0.0043J	mg/L	0.0050	04/12/21 17:43	
EPA 6020B	Barium	0.024	mg/L	0.0050	04/12/21 17:43	
EPA 6020B	Boron	0.028J	mg/L	0.040	04/12/21 17:43	
EPA 6020B	Lead	0.000045J	mg/L	0.0010	04/12/21 17:43	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	04/12/21 17:43	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	04/12/21 17:43	
SM 2540C-2011	Total Dissolved Solids	334	mg/L	10.0	04/06/21 09:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92529897053	DUP-4					
EPA 300.0 Rev 2.1 1993	Chloride	21.8	mg/L	1.0	04/06/21 15:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	04/06/21 15:07	
EPA 300.0 Rev 2.1 1993	Sulfate	43.0	mg/L	1.0	04/06/21 15:07	
92529897054	FB-7					
EPA 6020B	Chromium	0.00060J	mg/L	0.0050	04/12/21 17:48	
92529897055	EB-4					
EPA 6020B	Chromium	0.00067J	mg/L	0.0050	04/12/21 17:54	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-29		Lab ID: 92529897001		Collected: 03/23/21 13:30		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	8.00	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	22.1	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:00	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 15:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 15:49	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 15:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 15:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 15:49	7440-43-9	
Chromium	0.00059J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 15:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 15:49	7439-92-1	
Lithium	0.00087J	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 15:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 15:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	108	mg/L	10.0	10.0	1		03/31/21 17:14		H1
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/31/21 16:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/31/21 16:09	16984-48-8	
Sulfate	4.6	mg/L	1.0	0.50	1		03/31/21 16:09	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: DUP-1		Lab ID: 92529897002		Collected: 03/23/21 00:00	Received: 03/26/21 09:20	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	21.7	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:29	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 15:55	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 15:55	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 15:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 15:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 15:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 15:55	7440-43-9	
Chromium	0.00060J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 15:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 15:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 15:55	7439-92-1	
Lithium	0.00088J	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 15:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 15:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 15:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 15:55	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:43	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	116	mg/L	10.0	10.0	1		03/31/21 17:15		H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	1.2	mg/L	1.0	0.60	1		04/01/21 09:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 09:18	16984-48-8	
Sulfate	3.7	mg/L	1.0	0.50	1		04/01/21 09:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-1		Lab ID: 92529897003		Collected: 03/23/21 16:44	Received: 03/26/21 09:20	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:34	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0017J	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 16:18	7440-36-0		
Arsenic	0.00087J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 16:18	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 16:18	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 16:18	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 16:18	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 16:18	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 16:18	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 16:18	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 16:18	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 16:18	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 16:18	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 16:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 16:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/31/21 17:15		H1	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/01/21 10:03	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 10:03	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/01/21 10:03	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-8		Lab ID: 92529897004		Collected: 03/24/21 13:00		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.66	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	42.1	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00059J	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 16:23	7440-36-0	
Arsenic	0.0012J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 16:23	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 16:23	7440-41-7	
Boron	0.040J	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 16:23	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 16:23	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 16:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 16:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 16:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	198	mg/L	10.0	10.0	1		03/31/21 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		04/01/21 10:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 10:18	16984-48-8	
Sulfate	24.2	mg/L	1.0	0.50	1		04/01/21 10:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: BGWC-9		Lab ID: 92529897005		Collected: 03/24/21 14:24	Received: 03/26/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.26	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	59.9	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:43	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00038J	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 16:29	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 16:29	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 16:29	7440-41-7	
Boron	0.45	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 16:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 16:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 16:29	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 16:29	7439-93-2	
Molybdenum	0.0027J	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 16:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 16:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	294	mg/L	10.0	10.0	1		03/31/21 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.0	mg/L	1.0	0.60	1		04/01/21 10:33	16887-00-6	
Fluoride	0.075J	mg/L	0.10	0.050	1		04/01/21 10:33	16984-48-8	
Sulfate	70.5	mg/L	1.0	0.50	1		04/01/21 10:33	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: BGWC-12		Lab ID: 92529897006		Collected: 03/24/21 15:22		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.04	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	144	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:06	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:06	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:06	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:06	7440-43-9	
Chromium	0.00079J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:06	7440-47-3	
Cobalt	0.00048J	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:06	7440-48-4	
Lead	0.00013J	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:06	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 12:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	752	mg/L	20.0	20.0	1		03/31/21 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.4	mg/L	1.0	0.60	1		04/01/21 10:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 10:48	16984-48-8	
Sulfate	301	mg/L	7.0	3.5	7		04/01/21 15:16	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-14A		Lab ID: 92529897007		Collected: 03/24/21 16:27		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.04	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	91.9	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:12	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:12	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:12	7440-41-7	
Boron	0.60	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:12	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:12	7782-49-2	
Thallium	0.00023J	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/01/21 08:00	04/01/21 13:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	445	mg/L	10.0	10.0	1		03/31/21 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.1	mg/L	1.0	0.60	1		04/01/21 11:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 11:03	16984-48-8	
Sulfate	115	mg/L	2.0	1.0	2		04/01/21 16:01	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-16		Lab ID: 92529897008		Collected: 03/24/21 13:17		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.70	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	140	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 18:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:18	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:18	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:18	7440-39-3	
Beryllium	0.00014J	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:18	7440-41-7	
Boron	1.3	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:18	7440-42-8	
Cadmium	0.0018	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:18	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:18	7440-48-4	
Lead	0.000080J	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:18	7439-98-7	
Selenium	0.0017J	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:18	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 10:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	610	mg/L	20.0	20.0	1		03/31/21 17:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	24.0	mg/L	1.0	0.60	1		04/01/21 11:18	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		04/01/21 11:18	16984-48-8	
Sulfate	317	mg/L	7.0	3.5	7		04/01/21 16:16	14808-79-8	M6

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-17		Lab ID: 92529897009		Collected: 03/24/21 14:27	Received: 03/26/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.27	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	72.0	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:24	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:24	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:24	7440-41-7	
Boron	1.1	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00012J	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 10:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	374	mg/L	10.0	10.0	1		03/31/21 17:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	35.6	mg/L	1.0	0.60	1		04/01/21 12:03	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		04/01/21 12:03	16984-48-8	
Sulfate	93.7	mg/L	2.0	1.0	2		04/01/21 17:00	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-18		Lab ID: 92529897010		Collected: 03/24/21 15:57		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.48	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	48.2	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:30	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:30	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:30	7440-39-3	
Beryllium	0.000061J	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:30	7440-41-7	
Boron	0.50	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:30	7440-43-9	
Chromium	0.00065J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 10:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	240	mg/L	10.0	10.0	1		03/31/21 17:16		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		04/01/21 12:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 12:18	16984-48-8	
Sulfate	67.3	mg/L	1.0	0.50	1		04/01/21 12:18	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-2		Lab ID: 92529897011		Collected: 03/24/21 16:22		Received: 03/26/21 09:20		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:22	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:35	7440-36-0		
Arsenic	0.00089J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:35	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:35	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:35	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:35	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:35	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:35	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:35	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:35	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:35	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:35	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:35	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:35	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:01	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	10.0	mg/L	10.0	10.0	1		03/31/21 17:16			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/01/21 13:02	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 13:02	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/01/21 13:02	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-47D		Lab ID: 92529897012		Collected: 03/25/21 16:03	Received: 03/26/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.94	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	109	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:26	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 17:41	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 17:41	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 17:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 17:41	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 17:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 17:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 17:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 17:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 17:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 17:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 17:41	7439-98-7	
Selenium	0.0020J	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 17:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 17:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	415	mg/L	10.0	10.0	1		03/31/21 17:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		04/01/21 13:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 13:17	16984-48-8	
Sulfate	74.5	mg/L	1.0	0.50	1		04/01/21 13:17	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-48D		Lab ID: 92529897013		Collected: 03/25/21 11:36		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.22	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.3	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00080J	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:02	7440-36-0	
Arsenic	0.0042J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:02	7440-38-2	
Barium	0.091	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:02	7440-41-7	
Boron	0.026J	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:02	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 18:02	7439-93-2	
Molybdenum	0.0015J	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	331	mg/L	10.0	10.0	1		03/31/21 17:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		04/01/21 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 13:32	16984-48-8	
Sulfate	22.0	mg/L	1.0	0.50	1		04/01/21 13:32	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-30		Lab ID: 92529897014		Collected: 03/25/21 11:20		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.21	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	81.1	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:08	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:08	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:08	7440-41-7	
Boron	1.1	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:08	7440-43-9	
Chromium	0.00082J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:08	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 18:08	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 18:08	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	358	mg/L	10.0	10.0	1		04/01/21 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	85.5	mg/L	1.0	0.60	1		04/01/21 13:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/01/21 13:47	16984-48-8	
Sulfate	28.1	mg/L	1.0	0.50	1		04/01/21 13:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-36D		Lab ID: 92529897015		Collected: 03/25/21 15:58	Received: 03/26/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.27	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	162	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:14	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:14	7440-38-2	
Barium	0.073	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:14	7440-41-7	
Boron	5.9	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:14	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:14	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 18:14	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 18:14	7439-98-7	
Selenium	0.012	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:14	7782-49-2	
Thallium	0.00019J	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	902	mg/L	20.0	20.0	1		04/01/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	248	mg/L	6.0	3.6	6		04/03/21 14:44	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		04/03/21 00:43	16984-48-8	
Sulfate	137	mg/L	6.0	3.0	6		04/03/21 14:44	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-3		Lab ID: 92529897016		Collected: 03/25/21 16:30		Received: 03/26/21 09:20		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:19	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:19	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:19	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 18:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/01/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		04/03/21 00:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 00:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/03/21 00:57	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: EB-1		Lab ID: 92529897017		Collected: 03/25/21 16:34	Received: 03/26/21 09:20	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/02/21 11:09	04/02/21 19:50	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/02/21 11:47	04/05/21 18:28	7440-36-0		
Arsenic	0.00089J	mg/L	0.0050	0.00078	1	04/02/21 11:47	04/05/21 18:28	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/02/21 11:47	04/05/21 18:28	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/02/21 11:47	04/05/21 18:28	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/02/21 11:47	04/05/21 18:28	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/02/21 11:47	04/05/21 18:28	7440-43-9		
Chromium	0.00062J	mg/L	0.0050	0.00055	1	04/02/21 11:47	04/05/21 18:28	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/02/21 11:47	04/05/21 18:28	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/02/21 11:47	04/05/21 18:28	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/02/21 11:47	04/05/21 18:28	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/02/21 11:47	04/05/21 18:28	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/02/21 11:47	04/05/21 18:28	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/02/21 11:47	04/05/21 18:28	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:15	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/01/21 18:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/03/21 01:11	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 01:11	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/03/21 01:11	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-2		Lab ID: 92529897018		Collected: 03/26/21 10:35		Received: 03/26/21 16:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.63	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	46.7	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 15:53	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 20:32	7440-38-2	
Barium	0.14	mg/L	0.025	0.0036	5	04/06/21 10:53	04/08/21 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 20:32	7440-41-7	
Boron	0.0094J	mg/L	0.040	0.0052	1	04/06/21 10:53	04/07/21 20:32	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 20:32	7440-43-9	
Chromium	0.00071J	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 20:32	7440-48-4	
Lead	0.000068J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 20:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 20:32	7439-93-2	
Molybdenum	0.00092J	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 20:32	7782-49-2	
Thallium	0.00025J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 20:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	204	mg/L	10.0	10.0	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.6	mg/L	1.0	0.60	1		04/03/21 01:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 01:25	16984-48-8	
Sulfate	12.8	mg/L	1.0	0.50	1		04/03/21 01:25	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-19		Lab ID: 92529897019		Collected: 03/26/21 13:41	Received: 03/26/21 16:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.61	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	46.4	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 16:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 20:38	7440-38-2	
Barium	0.028	mg/L	0.025	0.0036	5	04/06/21 10:53	04/08/21 14:57	7440-39-3	
Beryllium	0.000055J	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 20:38	7440-41-7	
Boron	0.24	mg/L	0.040	0.0052	1	04/06/21 10:53	04/07/21 20:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 20:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 20:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 20:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 20:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 20:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 20:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 20:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 20:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	205	mg/L	10.0	10.0	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.8	mg/L	1.0	0.60	1		04/03/21 01:39	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		04/03/21 01:39	16984-48-8	
Sulfate	66.8	mg/L	1.0	0.50	1		04/03/21 01:39	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-23		Lab ID: 92529897020		Collected: 03/26/21 11:49		Received: 03/26/21 16:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.91	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	717	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 12:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.030	0.0028	10	04/06/21 10:53	04/08/21 15:08	7440-36-0	D3
Arsenic	ND	mg/L	0.050	0.0078	10	04/06/21 10:53	04/08/21 15:08	7440-38-2	D3
Barium	0.12	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 15:08	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.00046	10	04/06/21 10:53	04/08/21 15:08	7440-41-7	D3
Boron	15.8	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 15:08	7440-42-8	
Cadmium	ND	mg/L	0.0050	0.0012	10	04/06/21 10:53	04/08/21 15:08	7440-43-9	D3
Chromium	ND	mg/L	0.050	0.0055	10	04/06/21 10:53	04/08/21 15:08	7440-47-3	D3
Cobalt	ND	mg/L	0.050	0.0038	10	04/06/21 10:53	04/08/21 15:08	7440-48-4	D3
Lead	0.00031J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:01	7439-92-1	
Lithium	0.039J	mg/L	0.30	0.0081	10	04/06/21 10:53	04/08/21 15:08	7439-93-2	D3
Molybdenum	0.011J	mg/L	0.10	0.0069	10	04/06/21 10:53	04/08/21 15:08	7439-98-7	D3
Selenium	ND	mg/L	0.050	0.016	10	04/06/21 10:53	04/08/21 15:08	7782-49-2	D3
Thallium	0.00069J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2690	mg/L	100	100	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	928	mg/L	84.0	50.4	84		04/03/21 14:58	16887-00-6	
Fluoride	0.054J	mg/L	0.10	0.050	1		04/03/21 01:53	16984-48-8	
Sulfate	679	mg/L	84.0	42.0	84		04/03/21 14:58	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-24		Lab ID: 92529897021		Collected: 03/26/21 10:25		Received: 03/26/21 16:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.54	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	821	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 12:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.030	0.0028	10	04/06/21 10:53	04/08/21 15:23	7440-36-0	D3
Arsenic	ND	mg/L	0.050	0.0078	10	04/06/21 10:53	04/08/21 15:23	7440-38-2	D3
Barium	0.075	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 15:23	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.00046	10	04/06/21 10:53	04/08/21 15:23	7440-41-7	D3
Boron	31.0	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 15:23	7440-42-8	
Cadmium	0.0062	mg/L	0.0050	0.0012	10	04/06/21 10:53	04/08/21 15:23	7440-43-9	
Chromium	ND	mg/L	0.050	0.0055	10	04/06/21 10:53	04/08/21 15:23	7440-47-3	D3
Cobalt	ND	mg/L	0.050	0.0038	10	04/06/21 10:53	04/08/21 15:23	7440-48-4	D3
Lead	0.000071J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:06	7439-92-1	
Lithium	ND	mg/L	0.30	0.0081	10	04/06/21 10:53	04/08/21 15:23	7439-93-2	D3
Molybdenum	ND	mg/L	0.10	0.0069	10	04/06/21 10:53	04/08/21 15:23	7439-98-7	D3
Selenium	ND	mg/L	0.050	0.016	10	04/06/21 10:53	04/08/21 15:23	7782-49-2	D3
Thallium	0.00057J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.0058	mg/L	0.00020	0.000078	1	04/06/21 14:45	04/07/21 11:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	3070	mg/L	100	100	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1240	mg/L	100	60.0	100		04/03/21 15:12	16887-00-6	
Fluoride	0.095J	mg/L	0.10	0.050	1		04/03/21 02:07	16984-48-8	
Sulfate	515	mg/L	100	50.0	100		04/03/21 15:12	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-25		Lab ID: 92529897022		Collected: 03/26/21 12:23		Received: 03/26/21 16:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.36	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	52.8	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 16:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:12	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:12	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/08/21 15:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:12	7440-41-7	
Boron	0.17	mg/L	0.040	0.0052	1	04/06/21 10:53	04/07/21 21:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:12	7440-48-4	
Lead	0.00013J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 10:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	215	mg/L	10.0	10.0	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		04/03/21 02:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 02:21	16984-48-8	
Sulfate	21.3	mg/L	1.0	0.50	1		04/03/21 02:21	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-35D		Lab ID: 92529897023		Collected: 03/26/21 14:02		Received: 03/26/21 16:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.02	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	529	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 12:51	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:29	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:29	7440-38-2	
Barium	0.070	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:29	7440-41-7	
Boron	11.2	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 15:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:29	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:29	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:29	7439-93-2	
Molybdenum	0.036	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2220	mg/L	100	100	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	696	mg/L	100	60.0	100		04/03/21 15:25	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		04/03/21 03:31	16984-48-8	
Sulfate	647	mg/L	100	50.0	100		04/03/21 15:25	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-37D		Lab ID: 92529897024		Collected: 03/26/21 12:41	Received: 03/26/21 16:32	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.14	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	103	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 16:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:35	7440-36-0	
Arsenic	0.013	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:35	7440-38-2	
Barium	0.089	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 15:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:35	7440-41-7	
Boron	1.5	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 15:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:35	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:35	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:35	7439-93-2	
Molybdenum	0.017	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	496	mg/L	20.0	20.0	1		04/01/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	87.7	mg/L	3.0	1.8	3		04/03/21 15:41	16887-00-6	
Fluoride	0.27	mg/L	0.10	0.050	1		04/03/21 03:45	16984-48-8	
Sulfate	150	mg/L	3.0	1.5	3		04/03/21 15:41	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: DUP-2		Lab ID: 92529897025		Collected: 03/26/21 00:00	Received: 03/26/21 16:32	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	834	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 12:56	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.030	0.0028	10	04/06/21 10:53	04/08/21 16:16	7440-36-0	D3	
Arsenic	ND	mg/L	0.050	0.0078	10	04/06/21 10:53	04/08/21 16:16	7440-38-2	D3	
Barium	0.076	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 16:16	7440-39-3		
Beryllium	ND	mg/L	0.0050	0.00046	10	04/06/21 10:53	04/08/21 16:16	7440-41-7	D3	
Boron	27.3	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 16:16	7440-42-8		
Cadmium	0.0060	mg/L	0.0050	0.0012	10	04/06/21 10:53	04/08/21 16:16	7440-43-9		
Chromium	ND	mg/L	0.050	0.0055	10	04/06/21 10:53	04/08/21 16:16	7440-47-3	D3	
Cobalt	ND	mg/L	0.050	0.0038	10	04/06/21 10:53	04/08/21 16:16	7440-48-4	D3	
Lead	0.00052J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:41	7439-92-1		
Lithium	ND	mg/L	0.30	0.0081	10	04/06/21 10:53	04/08/21 16:16	7439-93-2	D3	
Molybdenum	ND	mg/L	0.10	0.0069	10	04/06/21 10:53	04/08/21 16:16	7439-98-7	D3	
Selenium	ND	mg/L	0.050	0.016	10	04/06/21 10:53	04/08/21 16:16	7782-49-2	D3	
Thallium	0.00054J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:41	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	0.0059	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:05	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	3650	mg/L	100	100	1		04/01/21 18:15			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	1210	mg/L	100	60.0	100		04/03/21 15:54	16887-00-6		
Fluoride	0.094J	mg/L	0.10	0.050	1		04/03/21 03:59	16984-48-8		
Sulfate	506	mg/L	100	50.0	100		04/03/21 15:54	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
 Pace Project No.: 92529897

Sample: FB-4		Lab ID: 92529897026		Collected: 03/26/21 14:00		Received: 03/26/21 16:32		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:03	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:46	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:46	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 21:46	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:46	7440-41-7		
Boron	0.010J	mg/L	0.040	0.0052	1	04/06/21 10:53	04/08/21 16:21	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:46	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:46	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:46	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:46	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:46	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:46	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:46	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:46	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:07	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	27.0	mg/L	10.0	10.0	1		04/01/21 18:15			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/03/21 04:13	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/03/21 04:13	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/03/21 04:13	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: BGWC-20		Lab ID: 92529897027		Collected: 03/29/21 16:03		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.24	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	296	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:52	7440-38-2	
Barium	0.033	mg/L	0.025	0.0036	5	04/06/21 10:53	04/08/21 16:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:52	7440-41-7	
Boron	4.1	mg/L	0.20	0.026	5	04/06/21 10:53	04/08/21 16:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:52	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:52	7439-92-1	
Lithium	0.036	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:52	7439-93-2	
Molybdenum	0.024	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1100	mg/L	50.0	50.0	1		04/05/21 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	131	mg/L	12.0	7.2	12		04/05/21 03:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/04/21 22:59	16984-48-8	
Sulfate	504	mg/L	12.0	6.0	12		04/05/21 03:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-21		Lab ID: 92529897028		Collected: 03/29/21 13:06		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.75	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	46.6	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 21:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 21:58	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/08/21 16:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 21:58	7440-41-7	
Boron	0.038J	mg/L	0.040	0.0052	1	04/06/21 10:53	04/08/21 16:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 21:58	7440-43-9	
Chromium	0.0025J	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 21:58	7440-47-3	
Cobalt	0.00069J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 21:58	7440-48-4	
Lead	0.000094J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 21:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 21:58	7439-93-2	
Molybdenum	0.0021J	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 21:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 21:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 21:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	198	mg/L	10.0	10.0	1		04/05/21 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		04/04/21 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/04/21 23:14	16984-48-8	
Sulfate	55.2	mg/L	1.0	0.50	1		04/04/21 23:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-22		Lab ID: 92529897029		Collected: 03/29/21 11:52		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.71	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	714	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 13:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:04	7440-36-0	
Arsenic	ND	mg/L	0.050	0.0078	10	04/06/21 10:53	04/08/21 16:39	7440-38-2	D3
Barium	0.079	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 16:39	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:04	7440-41-7	
Boron	17.3	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 16:39	7440-42-8	
Cadmium	ND	mg/L	0.0050	0.0012	10	04/06/21 10:53	04/08/21 16:39	7440-43-9	D3
Chromium	ND	mg/L	0.050	0.0055	10	04/06/21 10:53	04/08/21 16:39	7440-47-3	D3
Cobalt	0.029J	mg/L	0.050	0.0038	10	04/06/21 10:53	04/08/21 16:39	7440-48-4	D3
Lead	0.000061J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:04	7439-92-1	
Lithium	0.033	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:04	7439-93-2	
Molybdenum	0.045	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:04	7439-98-7	
Selenium	ND	mg/L	0.050	0.016	10	04/06/21 10:53	04/08/21 16:39	7782-49-2	D3
Thallium	0.00090J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2430	mg/L	100	100	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	886	mg/L	16.0	9.6	16		04/06/21 22:30	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		04/04/21 23:59	16984-48-8	
Sulfate	772	mg/L	16.0	8.0	16		04/06/21 22:30	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-31		Lab ID: 92529897030		Collected: 03/29/21 14:05		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.97	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	77.2	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:09	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:09	7440-38-2	
Barium	0.039	mg/L	0.025	0.0036	5	04/06/21 10:53	04/08/21 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:09	7440-41-7	
Boron	0.70	mg/L	0.20	0.026	5	04/06/21 10:53	04/08/21 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:09	7440-48-4	
Lead	0.00061J	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/08/21 15:05	04/09/21 11:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	352	mg/L	10.0	10.0	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.4	mg/L	1.0	0.60	1		04/05/21 00:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 00:14	16984-48-8	
Sulfate	35.9	mg/L	1.0	0.50	1		04/05/21 00:14	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-38D		Lab ID: 92529897031		Collected: 03/29/21 11:54		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.02	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	161	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:15	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:15	7440-38-2	
Barium	0.082	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 16:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:15	7440-41-7	
Boron	6.8	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 16:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:15	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:15	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:15	7439-93-2	
Molybdenum	0.13	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:15	7782-49-2	
Thallium	0.00018J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	702	mg/L	20.0	20.0	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	227	mg/L	5.0	3.0	5		04/06/21 22:44	16887-00-6	
Fluoride	0.73	mg/L	0.10	0.050	1		04/05/21 00:29	16984-48-8	
Sulfate	136	mg/L	5.0	2.5	5		04/06/21 22:44	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-43D		Lab ID: 92529897032		Collected: 03/29/21 14:24		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.02	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	326	mg/L	50.0	3.5	50	04/06/21 10:46	04/07/21 13:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:21	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:21	7440-38-2	
Barium	0.065	mg/L	0.050	0.0071	10	04/06/21 10:53	04/08/21 16:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:21	7440-41-7	
Boron	12.8	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 16:56	7440-42-8	
Cadmium	0.00019J	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:21	7440-47-3	
Cobalt	0.0057	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:21	7439-92-1	
Lithium	0.026J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:21	7439-93-2	
Molybdenum	0.21	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:21	7782-49-2	
Thallium	0.0016	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	700	mg/L	100	100	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	443	mg/L	10.0	6.0	10		04/06/21 22:59	16887-00-6	
Fluoride	1.0	mg/L	0.10	0.050	1		04/05/21 00:43	16984-48-8	
Sulfate	301	mg/L	10.0	5.0	10		04/06/21 22:59	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: FB-5		Lab ID: 92529897033		Collected: 03/29/21 15:36		Received: 03/31/21 09:38		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:55	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:38	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 22:38	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:38	7440-41-7		
Boron	0.012J	mg/L	0.040	0.0052	1	04/06/21 10:53	04/07/21 22:38	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:38	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:38	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:38	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:38	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:38	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:34	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/05/21 18:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/21 00:58	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 00:58	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/05/21 00:58	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: EB-2		Lab ID: 92529897034		Collected: 03/29/21 16:29		Received: 03/31/21 09:38		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 17:59	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:44	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 22:44	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:44	7440-41-7		
Boron	0.0083J	mg/L	0.040	0.0052	1	04/06/21 10:53	04/07/21 22:44	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:36	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/05/21 18:13			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/21 01:13	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 01:13	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/05/21 01:13	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-7		Lab ID: 92529897035		Collected: 03/30/21 09:35		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.05	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	145	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 18:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:49	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:49	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 22:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:49	7440-41-7	
Boron	1.4	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 17:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:49	7440-43-9	
Chromium	0.00095J	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:49	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:49	7439-92-1	
Lithium	0.0084J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:49	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:49	7782-49-2	
Thallium	0.00015J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	570	mg/L	20.0	20.0	1		04/05/21 18:13		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.8	mg/L	1.0	0.60	1		04/04/21 23:42	16887-00-6	
Fluoride	0.18	mg/L	0.10	0.050	1		04/04/21 23:42	16984-48-8	
Sulfate	290	mg/L	6.0	3.0	6		04/05/21 04:38	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-10		Lab ID: 92529897036		Collected: 03/30/21 11:37		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.41	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	61.3	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 18:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 22:55	7440-36-0	
Arsenic	0.0053	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 22:55	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 22:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 22:55	7440-41-7	
Boron	0.56	mg/L	0.40	0.052	10	04/06/21 10:53	04/08/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 22:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 22:55	7440-47-3	
Cobalt	0.00052J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 22:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 22:55	7439-92-1	
Lithium	0.00092J	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 22:55	7439-93-2	
Molybdenum	0.0035J	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 22:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 22:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 22:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	321	mg/L	10.0	10.0	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	23.8	mg/L	1.0	0.60	1		04/04/21 23:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/04/21 23:56	16984-48-8	
Sulfate	104	mg/L	2.0	1.0	2		04/05/21 04:55	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-32		Lab ID: 92529897037		Collected: 03/30/21 12:31		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.07	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	289	mg/L	1.0	0.070	1	04/06/21 10:46	04/06/21 18:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:53	04/07/21 23:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:53	04/07/21 23:01	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00071	1	04/06/21 10:53	04/07/21 23:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:53	04/07/21 23:01	7440-41-7	
Boron	5.2	mg/L	2.0	0.26	50	04/06/21 10:53	04/08/21 17:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:53	04/07/21 23:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:53	04/07/21 23:01	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	04/06/21 10:53	04/07/21 23:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:53	04/07/21 23:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:53	04/07/21 23:01	7439-93-2	
Molybdenum	0.0037J	mg/L	0.010	0.00069	1	04/06/21 10:53	04/07/21 23:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:53	04/07/21 23:01	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	04/06/21 10:53	04/07/21 23:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1030	mg/L	100	100	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	355	mg/L	8.0	4.8	8		04/05/21 05:09	16887-00-6	M6
Fluoride	0.14	mg/L	0.10	0.050	1		04/05/21 00:09	16984-48-8	
Sulfate	368	mg/L	8.0	4.0	8		04/05/21 05:09	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-34D		Lab ID: 92529897038		Collected: 03/30/21 15:02	Received: 03/31/21 09:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.19	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	112	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 13:22	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00079J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 14:37	7440-36-0	B
Arsenic	0.016	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 14:37	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 14:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 14:37	7440-41-7	
Boron	0.27	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 14:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 14:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 14:37	7440-47-3	
Cobalt	0.00065J	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 14:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 14:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 14:37	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 14:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 14:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 14:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/15/21 07:20	04/15/21 13:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	346	mg/L	10.0	10.0	1		04/05/21 18:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	37.2	mg/L	1.0	0.60	1		04/05/21 01:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 01:19	16984-48-8	
Sulfate	127	mg/L	3.0	1.5	3		04/05/21 05:52	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: BGWC-40		Lab ID: 92529897039		Collected: 03/30/21 15:37	Received: 03/31/21 09:38	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.04	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	158	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 13:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00050J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 14:43	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 14:43	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 14:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 14:43	7440-41-7	
Boron	3.6	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 14:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 14:43	7440-43-9	
Chromium	0.00081J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 14:43	7440-47-3	
Cobalt	0.00052J	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 14:43	7440-48-4	
Lead	0.00018J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 14:43	7439-92-1	
Lithium	0.00086J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 14:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 14:43	7439-98-7	
Selenium	0.0098	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/13/21 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 14:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	582	mg/L	20.0	20.0	1		04/05/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	175	mg/L	4.0	2.4	4		04/05/21 06:36	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		04/05/21 01:33	16984-48-8	
Sulfate	144	mg/L	4.0	2.0	4		04/05/21 06:36	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-51		Lab ID: 92529897040		Collected: 03/30/21 14:34		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.64	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	562	mg/L	10.0	0.70	10	04/06/21 10:48	04/06/21 18:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 15:06	7440-36-0	B
Arsenic	0.0065J	mg/L	0.025	0.0039	5	04/06/21 10:50	04/13/21 17:57	7440-38-2	D3
Barium	0.051	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 15:06	7440-39-3	
Beryllium	0.00021J	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 15:06	7440-41-7	
Boron	23.3	mg/L	0.20	0.026	5	04/06/21 10:50	04/13/21 17:57	7440-42-8	
Cadmium	0.00070	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 15:06	7440-43-9	
Chromium	ND	mg/L	0.025	0.0028	5	04/06/21 10:50	04/13/21 17:57	7440-47-3	D3
Cobalt	ND	mg/L	0.025	0.0019	5	04/06/21 10:50	04/13/21 17:57	7440-48-4	D3
Lead	0.00022J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 15:06	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 15:06	7439-93-2	
Molybdenum	0.0027J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 15:06	7439-98-7	
Selenium	0.010J	mg/L	0.025	0.0078	5	04/06/21 10:50	04/13/21 17:57	7782-49-2	D3
Thallium	0.00040J	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 15:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.0020	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1980	mg/L	100	100	1		04/05/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	772	mg/L	97.0	58.2	97		04/05/21 06:50	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		04/05/21 01:47	16984-48-8	
Sulfate	636	mg/L	97.0	48.5	97		04/05/21 06:50	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: BGWC-52		Lab ID: 92529897041		Collected: 03/30/21 11:30		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.82	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	353	mg/L	10.0	0.70	10	04/06/21 10:48	04/06/21 18:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00085J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 15:11	7440-36-0	B
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 15:11	7440-38-2	
Barium	0.084	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 15:11	7440-39-3	
Beryllium	0.000052J	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 15:11	7440-41-7	
Boron	9.7	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 15:11	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 15:11	7440-43-9	
Chromium	0.00061J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 15:11	7440-47-3	
Cobalt	0.0031J	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 15:11	7440-48-4	
Lead	0.00011J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 15:11	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 15:11	7439-93-2	
Molybdenum	0.0035J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 15:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/13/21 18:03	7782-49-2	
Thallium	0.00024J	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 15:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1170	mg/L	100	100	1		04/05/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	472	mg/L	10.0	6.0	10		04/05/21 07:04	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		04/05/21 02:01	16984-48-8	
Sulfate	347	mg/L	10.0	5.0	10		04/05/21 07:04	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: DUP-3		Lab ID: 92529897042		Collected: 03/30/21 00:00		Received: 03/31/21 09:38		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	154	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00057J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 15:17	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 15:17	7440-38-2	
Barium	0.061	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 15:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 15:17	7440-41-7	
Boron	3.7	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 15:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 15:17	7440-43-9	
Chromium	0.00070J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 15:17	7440-47-3	
Cobalt	0.00053J	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 15:17	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 15:17	7439-92-1	
Lithium	0.00082J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 15:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 15:17	7439-98-7	
Selenium	0.0093	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/13/21 18:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 15:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	620	mg/L	20.0	20.0	1		04/05/21 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	176	mg/L	4.0	2.4	4		04/05/21 07:19	16887-00-6	
Fluoride	0.070J	mg/L	0.10	0.050	1		04/05/21 02:15	16984-48-8	
Sulfate	145	mg/L	4.0	2.0	4		04/05/21 07:19	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-6		Lab ID: 92529897043		Collected: 03/30/21 16:38	Received: 03/31/21 09:38	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:10	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00047J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 15:57	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 15:57	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 15:57	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 15:57	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 15:57	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 15:57	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 15:57	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 15:57	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 15:57	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 15:57	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 15:57	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 15:57	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 15:57	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:38	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/05/21 18:14			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/21 02:29	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 02:29	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/05/21 02:29	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Sample: EB-3		Lab ID: 92529897044		Collected: 03/30/21 16:53		Received: 03/31/21 09:38		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:15	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:03	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:03	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:03	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:03	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:03	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:03	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:03	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:03	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:03	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:03	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:03	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:45	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/05/21 18:14			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/21 02:43	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/05/21 02:43	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/05/21 02:43	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-33		Lab ID: 92529897045		Collected: 04/01/21 09:45		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.75	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	49.5	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0020J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:09	7440-36-0	B
Arsenic	0.0013J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:09	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:09	7440-41-7	
Boron	0.0069J	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:09	7440-43-9	
Chromium	0.00076J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:09	7439-93-2	
Molybdenum	0.026	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:09	7439-98-7	
Selenium	0.0040J	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	183	mg/L	10.0	10.0	1		04/06/21 09:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		04/05/21 02:56	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		04/05/21 02:56	16984-48-8	
Sulfate	24.6	mg/L	1.0	0.50	1		04/05/21 02:56	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-42D		Lab ID: 92529897046		Collected: 04/01/21 11:05	Received: 04/02/21 10:36	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.44	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	94.0	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:14	7440-36-0	B
Arsenic	0.0020J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:14	7440-38-2	
Barium	0.058	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:14	7440-41-7	
Boron	1.9	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:14	7440-43-9	
Chromium	0.00062J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:14	7440-48-4	
Lead	0.000044J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:14	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:14	7439-93-2	
Molybdenum	0.0059J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:14	7439-98-7	
Selenium	0.0027J	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	502	mg/L	20.0	20.0	1		04/06/21 09:41		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	98.2	mg/L	1.0	0.60	1		04/05/21 03:38	16887-00-6	
Fluoride	0.72	mg/L	0.10	0.050	1		04/05/21 03:38	16984-48-8	
Sulfate	115	mg/L	2.0	1.0	2		04/05/21 07:35	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: EB-5		Lab ID: 92529897047		Collected: 04/01/21 11:45	Received: 04/02/21 10:36	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:29	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:20	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:20	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:20	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:20	7440-41-7		
Boron	0.0059J	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:20	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:20	7440-43-9		
Chromium	0.0016J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:20	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:20	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:20	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:20	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:20	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:20	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:20	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:52	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/06/21 09:41			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/06/21 13:07	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/06/21 13:07	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/06/21 13:07	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-8		Lab ID: 92529897048		Collected: 04/01/21 11:50		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:26	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/08/21 12:15		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		04/06/21 13:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/06/21 13:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/06/21 13:22	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWA-6		Lab ID: 92529897049		Collected: 03/31/21 11:29		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.17	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	63.4	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:39	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:32	7440-38-2	
Barium	0.052	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:32	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:32	7440-47-3	
Cobalt	0.00094J	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:32	7440-48-4	
Lead	0.00016J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:32	7439-92-1	
Lithium	0.00082J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:32	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:32	7439-98-7	
Selenium	0.0032J	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:32	7782-49-2	
Thallium	0.00017J	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	299	mg/L	10.0	10.0	1		04/06/21 09:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.4	mg/L	1.0	0.60	1		04/06/21 13:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/06/21 13:37	16984-48-8	
Sulfate	21.9	mg/L	1.0	0.50	1		04/06/21 13:37	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-39		Lab ID: 92529897050		Collected: 03/31/21 10:02		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	6.80	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	336	mg/L	10.0	0.70	10	04/06/21 10:48	04/06/21 18:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:37	7440-38-2	
Barium	0.060	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:37	7440-41-7	
Boron	6.7	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:37	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:37	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:37	7439-93-2	
Molybdenum	0.0062J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:37	7439-98-7	
Selenium	0.0020J	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:37	7782-49-2	
Thallium	0.00017J	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 16:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1060	mg/L	100	100	1		04/06/21 09:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	337	mg/L	7.0	4.2	7		04/06/21 20:02	16887-00-6	
Fluoride	0.080J	mg/L	0.10	0.050	1		04/06/21 13:52	16984-48-8	
Sulfate	314	mg/L	7.0	3.5	7		04/06/21 20:02	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-41D		Lab ID: 92529897051		Collected: 03/31/21 13:52		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.44	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	166	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 14:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:43	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:43	7440-38-2	
Barium	0.058	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:43	7440-41-7	
Boron	1.1	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:43	7440-43-9	
Chromium	0.00068J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:43	7440-48-4	
Lead	0.000036J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:43	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:43	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:43	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 17:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1010	mg/L	50.0	50.0	1		04/06/21 09:40		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	261	mg/L	6.0	3.6	6		04/06/21 20:47	16887-00-6	
Fluoride	0.077J	mg/L	0.10	0.050	1		04/06/21 14:07	16984-48-8	
Sulfate	262	mg/L	6.0	3.0	6		04/06/21 20:47	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: BGWC-44D		Lab ID: 92529897052		Collected: 03/31/21 14:17		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 08:25		
pH	7.40	Std. Units			1		04/20/21 08:25		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	50.9	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 15:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0026J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 16:49	7440-36-0	B
Arsenic	0.0043J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 16:49	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 16:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 16:49	7440-41-7	
Boron	0.038J	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 16:49	7440-43-9	
Chromium	0.00094J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 16:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 16:49	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 16:49	7439-93-2	
Molybdenum	0.0023J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 16:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 16:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 17:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	308	mg/L	10.0	10.0	1		04/06/21 09:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	21.9	mg/L	1.0	0.60	1		04/06/21 14:52	16887-00-6	
Fluoride	0.088J	mg/L	0.10	0.050	1		04/06/21 14:52	16984-48-8	
Sulfate	42.9	mg/L	1.0	0.50	1		04/06/21 14:52	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: DUP-4		Lab ID: 92529897053		Collected: 03/31/21 00:00		Received: 04/02/21 10:36		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	51.2	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 18:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0025J	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 17:43	7440-36-0	B
Arsenic	0.0043J	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 17:43	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 17:43	7440-41-7	
Boron	0.028J	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 17:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 17:43	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 17:43	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 17:43	7439-93-2	
Molybdenum	0.0020J	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 17:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 17:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	334	mg/L	10.0	10.0	1		04/06/21 09:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	21.8	mg/L	1.0	0.60	1		04/06/21 15:07	16887-00-6	
Fluoride	0.080J	mg/L	0.10	0.050	1		04/06/21 15:07	16984-48-8	
Sulfate	43.0	mg/L	1.0	0.50	1		04/06/21 15:07	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: FB-7		Lab ID: 92529897054		Collected: 03/31/21 16:24		Received: 04/02/21 10:36		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 15:19	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 17:48	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 17:48	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 17:48	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 17:48	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 17:48	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 17:48	7440-43-9		
Chromium	0.00060J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 17:48	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 17:48	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 17:48	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 17:48	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 17:48	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 17:48	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 17:48	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 17:14	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/06/21 09:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/06/21 15:22	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/06/21 15:22	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/06/21 15:22	14808-79-8		

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ANALYTICAL RESULTS

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Sample: EB-4		Lab ID: 92529897055		Collected: 03/31/21 16:28		Received: 04/02/21 10:36		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/06/21 10:48	04/06/21 15:24	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	04/06/21 10:50	04/12/21 17:54	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/06/21 10:50	04/12/21 17:54	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/06/21 10:50	04/12/21 17:54	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/06/21 10:50	04/12/21 17:54	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	04/06/21 10:50	04/12/21 17:54	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/06/21 10:50	04/12/21 17:54	7440-43-9		
Chromium	0.00067J	mg/L	0.0050	0.00055	1	04/06/21 10:50	04/12/21 17:54	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/06/21 10:50	04/12/21 17:54	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/06/21 10:50	04/12/21 17:54	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/06/21 10:50	04/12/21 17:54	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/06/21 10:50	04/12/21 17:54	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/06/21 10:50	04/12/21 17:54	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/06/21 10:50	04/12/21 17:54	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/20/21 11:30	04/20/21 17:16	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/06/21 09:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/06/21 15:36	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/06/21 15:36	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/06/21 15:36	14808-79-8		

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611093 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017

METHOD BLANK: 3217504 Matrix: Water
Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/02/21 17:50	

LABORATORY CONTROL SAMPLE: 3217505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217506 3217507

Parameter	Units	3217506		3217507		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92529897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	22.1	1	1	22.5	22.7	38	59	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch:	611682	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037		

METHOD BLANK:	3219832	Matrix:	Water
Associated Lab Samples:	92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/06/21 15:34	

LABORATORY CONTROL SAMPLE:	3219833					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3219834			3219835								
Parameter	Units	92529897018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	46.7	1	1	44.8	45.0	-191	-170	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch:	611684	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

METHOD BLANK: 3219854 Matrix: Water
Associated Lab Samples: 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/06/21 15:14	

LABORATORY CONTROL SAMPLE: 3219855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3219856 3219858

Parameter	Units	92529897038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	112	1	1	118	114	600	243	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611110 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017

METHOD BLANK: 3217587 Matrix: Water
Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/05/21 15:38	
Arsenic	mg/L	ND	0.0050	0.00078	04/05/21 15:38	
Barium	mg/L	ND	0.0050	0.00071	04/05/21 15:38	
Beryllium	mg/L	ND	0.00050	0.000046	04/05/21 15:38	
Boron	mg/L	ND	0.040	0.0052	04/05/21 15:38	
Cadmium	mg/L	ND	0.00050	0.00012	04/05/21 15:38	
Chromium	mg/L	ND	0.0050	0.00055	04/05/21 15:38	
Cobalt	mg/L	ND	0.0050	0.00038	04/05/21 15:38	
Lead	mg/L	ND	0.0010	0.000036	04/05/21 15:38	
Lithium	mg/L	ND	0.030	0.00081	04/05/21 15:38	
Molybdenum	mg/L	ND	0.010	0.00069	04/05/21 15:38	
Selenium	mg/L	ND	0.0050	0.0016	04/05/21 15:38	
Thallium	mg/L	ND	0.0010	0.00014	04/05/21 15:38	

LABORATORY CONTROL SAMPLE: 3217588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.091	91	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Parameter	Units	92529897002		3217589		3217590		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	3	20				
Arsenic	mg/L	0.0011J	0.1	0.1	0.098	0.097	97	96	75-125	1	20				
Barium	mg/L	0.013	0.1	0.1	0.11	0.11	97	95	75-125	2	20				
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20				
Boron	mg/L	ND	1	1	1.0	1.0	100	101	75-125	1	20				
Cadmium	mg/L	ND	0.1	0.1	0.10	0.096	101	96	75-125	4	20				
Chromium	mg/L	0.00060J	0.1	0.1	0.10	0.098	100	97	75-125	3	20				
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20				
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20				
Lithium	mg/L	0.00088J	0.1	0.1	0.10	0.10	104	99	75-125	5	20				
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20				
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	93	91	75-125	2	20				
Thallium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	1	20				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch: 611685 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037

METHOD BLANK: 3219875 Matrix: Water
 Associated Lab Samples: 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/07/21 20:21	
Arsenic	mg/L	ND	0.0050	0.00078	04/07/21 20:21	
Barium	mg/L	ND	0.0050	0.00071	04/07/21 20:21	
Beryllium	mg/L	ND	0.00050	0.000046	04/07/21 20:21	
Boron	mg/L	ND	0.040	0.0052	04/07/21 20:21	
Cadmium	mg/L	ND	0.00050	0.00012	04/07/21 20:21	
Chromium	mg/L	ND	0.0050	0.00055	04/07/21 20:21	
Cobalt	mg/L	ND	0.0050	0.00038	04/07/21 20:21	
Lead	mg/L	ND	0.0010	0.000036	04/07/21 20:21	
Lithium	mg/L	ND	0.030	0.00081	04/07/21 20:21	
Molybdenum	mg/L	ND	0.010	0.00069	04/07/21 20:21	
Selenium	mg/L	ND	0.0050	0.0016	04/07/21 20:21	
Thallium	mg/L	ND	0.0010	0.00014	04/07/21 20:21	

LABORATORY CONTROL SAMPLE: 3219876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.1	108	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Parameter	Units	3219877		3219878		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92529897019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.12	0.12	120	118	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	2	20		
Barium	mg/L	0.028	0.1	0.1	0.15	0.15	121	121	75-125	0	20		
Beryllium	mg/L	0.000055J	0.1	0.1	0.10	0.096	100	96	75-125	3	20		
Boron	mg/L	0.24	1	1	1.3	1.2	102	100	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.096	98	96	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.094	100	94	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611686 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

METHOD BLANK: 3219880 Matrix: Water
Associated Lab Samples: 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00063J	0.0030	0.00028	04/12/21 14:25	
Arsenic	mg/L	ND	0.0050	0.00078	04/12/21 14:25	
Barium	mg/L	ND	0.0050	0.00071	04/12/21 14:25	
Beryllium	mg/L	ND	0.00050	0.000046	04/12/21 14:25	
Boron	mg/L	ND	0.040	0.0052	04/12/21 14:25	
Cadmium	mg/L	ND	0.00050	0.00012	04/12/21 14:25	
Chromium	mg/L	ND	0.0050	0.00055	04/12/21 14:25	
Cobalt	mg/L	ND	0.0050	0.00038	04/12/21 14:25	
Lead	mg/L	ND	0.0010	0.000036	04/12/21 14:25	
Lithium	mg/L	ND	0.030	0.00081	04/12/21 14:25	
Molybdenum	mg/L	ND	0.010	0.00069	04/12/21 14:25	
Selenium	mg/L	ND	0.0050	0.0016	04/12/21 14:25	
Thallium	mg/L	ND	0.0010	0.00014	04/12/21 14:25	

LABORATORY CONTROL SAMPLE: 3219881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Parameter	Units	3219882		3219883		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92529897039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	0.00050J	0.1	0.1	0.11	0.11	105	106	75-125	0	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Barium	mg/L	0.060	0.1	0.1	0.15	0.15	93	94	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	1	20		
Boron	mg/L	3.6	1	1	4.5	4.6	96	98	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.092	0.099	92	99	75-125	7	20		
Chromium	mg/L	0.00081J	0.1	0.1	0.097	0.11	96	106	75-125	9	20		
Cobalt	mg/L	0.00052J	0.1	0.1	0.094	0.10	94	102	75-125	8	20		
Lead	mg/L	0.00018J	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Lithium	mg/L	0.00086J	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.096	0.097	95	96	75-125	1	20		
Selenium	mg/L	0.0098	0.1	0.1	0.10	0.11	92	105	75-125	12	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch:	610453	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007

METHOD BLANK: 3214440 Matrix: Water
Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/01/21 11:51	

LABORATORY CONTROL SAMPLE: 3214441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3214442 3214443

Parameter	Units	3214442		3214443		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0024	96	93	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611728 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021

METHOD BLANK: 3220081 Matrix: Water
Associated Lab Samples: 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014, 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/07/21 10:37	

LABORATORY CONTROL SAMPLE: 3220082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3220083 3220084

Parameter	Units	92529897009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00012J	0.0025	0.0025	0.0025	0.0023	94	87	75-125	7	20	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch:	612453	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030

METHOD BLANK: 3223921 Matrix: Water
Associated Lab Samples: 92529897022, 92529897023, 92529897024, 92529897025, 92529897026, 92529897027, 92529897028, 92529897029, 92529897030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/09/21 10:46	

LABORATORY CONTROL SAMPLE: 3223922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3223923 3223924

Parameter	Units	92529897022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch:	613664	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037, 92529897038

METHOD BLANK: 3229711 Matrix: Water

Associated Lab Samples: 92529897031, 92529897032, 92529897033, 92529897034, 92529897035, 92529897036, 92529897037, 92529897038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/15/21 13:24	

LABORATORY CONTROL SAMPLE: 3229712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3229713 3229714

Parameter	Units	92532666002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0021	77	80	75-125	3	20	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch:	614849	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

METHOD BLANK: 3235524 Matrix: Water

Associated Lab Samples: 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046, 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/20/21 16:13	

LABORATORY CONTROL SAMPLE: 3235525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3235526 3235527

Parameter	Units	92529897039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch: 610168

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013

METHOD BLANK: 3213080

Matrix: Water

Associated Lab Samples: 92529897001, 92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/31/21 17:13	

LABORATORY CONTROL SAMPLE: 3213081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	90-111	

SAMPLE DUPLICATE: 3213082

Parameter	Units	92529074002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	499	393	24	10	D6,H1

SAMPLE DUPLICATE: 3213083

Parameter	Units	92529897008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	610	658	8	10	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch: 610734

Analysis Method: SM 2540C-2011

QC Batch Method: SM 2540C-2011

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92529897014, 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026

METHOD BLANK: 3215770

Matrix: Water

Associated Lab Samples: 92529897014, 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/01/21 18:12	

LABORATORY CONTROL SAMPLE: 3215771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3215772

Parameter	Units	92529897014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	358	364	2	10	

SAMPLE DUPLICATE: 3215773

Parameter	Units	92529897024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	496	526	6	10	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611643 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897045, 92529897046, 92529897047, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

METHOD BLANK: 3219717 Matrix: Water
Associated Lab Samples: 92529897045, 92529897046, 92529897047, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/06/21 09:38	

LABORATORY CONTROL SAMPLE: 3219718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	90-111	

SAMPLE DUPLICATE: 3219719

Parameter	Units	92530947001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	263	4	10	

SAMPLE DUPLICATE: 3219720

Parameter	Units	92529897051 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	885	13	10 D6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 612350 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92529897048

METHOD BLANK: 3223160 Matrix: Water
Associated Lab Samples: 92529897048

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/08/21 12:14	

LABORATORY CONTROL SAMPLE: 3223161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3223162

Parameter	Units	92529897048 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3223163

Parameter	Units	92531540001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10.0	10.0	0	10	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 610263 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92529897001

METHOD BLANK: 3213559 Matrix: Water
Associated Lab Samples: 92529897001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/31/21 09:11	
Fluoride	mg/L	ND	0.10	0.050	03/31/21 09:11	
Sulfate	mg/L	ND	1.0	0.50	03/31/21 09:11	

LABORATORY CONTROL SAMPLE: 3213560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.7	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	55.1	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213561 3213562

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92530066001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5530	50	50	5420	5440	-227	-186	90-110	0	10	M6	
Fluoride	mg/L	5.8J	2.5	2.5	7.1J	6.8J	52	40	90-110		10	M6	
Sulfate	mg/L	1160	50	50	1180	1190	44	55	90-110	0	10	M6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213563 3213564

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92530285002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	32.4	50	50	86.4	84.9	108	105	90-110	2	10		
Fluoride	mg/L	0.30	2.5	2.5	3.0	2.9	108	103	90-110	4	10		
Sulfate	mg/L	101	50	50	152	147	103	92	90-110	4	10		

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch:	610549	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014		

METHOD BLANK:	3215037	Matrix:	Water
Associated Lab Samples:	92529897002, 92529897003, 92529897004, 92529897005, 92529897006, 92529897007, 92529897008, 92529897009, 92529897010, 92529897011, 92529897012, 92529897013, 92529897014		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/01/21 06:06	
Fluoride	mg/L	ND	0.10	0.050	04/01/21 06:06	
Sulfate	mg/L	ND	1.0	0.50	04/01/21 06:06	

LABORATORY CONTROL SAMPLE: 3215038						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3215041												3215042	
Parameter	Units	92529897008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	24.0	50	50	75.2	75.8	102	104	90-110	1	10		
Fluoride	mg/L	0.053J	2.5	2.5	2.4	2.5	95	97	90-110	2	10		
Sulfate	mg/L	317	50	50	361	359	87	83	90-110	1	10 M6		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3215548												3215549	
Parameter	Units	92530346001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Chloride	mg/L	598	50	50	649	652	102	108	90-110	0	10		
Fluoride	mg/L	2.9	2.5	2.5	4.8	4.8	77	74	90-110	1	10 M6		
Sulfate	mg/L	93.1	50	50	133	132	80	78	90-110	1	10 M6		

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 610955 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026

METHOD BLANK: 3217098 Matrix: Water
Associated Lab Samples: 92529897015, 92529897016, 92529897017, 92529897018, 92529897019, 92529897020, 92529897021, 92529897022, 92529897023, 92529897024, 92529897025, 92529897026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/02/21 20:21	
Fluoride	mg/L	ND	0.10	0.050	04/02/21 20:21	
Sulfate	mg/L	ND	1.0	0.50	04/02/21 20:21	

LABORATORY CONTROL SAMPLE: 3217099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	54.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217100 3217101

Parameter	Units	92530492003		3217101		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	3940	50	50	4010	3990	136	104	90-110	0	10 M6
Fluoride	mg/L	ND	2.5	2.5	5.2J	5.3J	208	212	90-110		10 M6
Sulfate	mg/L	1400	50	50	1470	1470	147	145	90-110	0	10 M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217102 3217103

Parameter	Units	92529897022		3217103		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.7	50	50	57.7	56.5	104	102	90-110	2	10
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	97	90-110	2	10
Sulfate	mg/L	21.3	50	50	75.3	73.9	108	105	90-110	2	10

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

QC Batch:	611237	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034		

METHOD BLANK:	3218300	Matrix:	Water
Associated Lab Samples:	92529897027, 92529897028, 92529897029, 92529897030, 92529897031, 92529897032, 92529897033, 92529897034		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/04/21 18:15	
Fluoride	mg/L	ND	0.10	0.050	04/04/21 18:15	
Sulfate	mg/L	ND	1.0	0.50	04/04/21 18:15	

LABORATORY CONTROL SAMPLE:	3218301					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.3	92	90-110	
Sulfate	mg/L	50	49.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3218302			3218303								
Parameter	Units	92530924001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2680	50	50	4970	4770	4590	4200	90-110	4	10	M6
Fluoride	mg/L	ND	2.5	2.5	29.8	29.2	1190	1170	90-110	2	10	M6
Sulfate	mg/L	2220	50	50	4220	3950	3980	3450	90-110	6	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3218304			3218305								
Parameter	Units	92528787031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.7	51.9	105	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	2	10	
Sulfate	mg/L	ND	50	50	52.5	51.6	105	103	90-110	2	10	

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611329 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92529897035, 92529897036, 92529897037, 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046

METHOD BLANK: 3218523 Matrix: Water
Associated Lab Samples: 92529897035, 92529897036, 92529897037, 92529897038, 92529897039, 92529897040, 92529897041, 92529897042, 92529897043, 92529897044, 92529897045, 92529897046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/04/21 20:28	
Fluoride	mg/L	ND	0.10	0.050	04/04/21 20:28	
Sulfate	mg/L	ND	1.0	0.50	04/04/21 20:28	

LABORATORY CONTROL SAMPLE: 3218524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	54.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3218525 3218526

Parameter	Units	3218525		3218526		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	86.3	50	50	128	128	83	83	90-110	0	10 M1
Fluoride	mg/L	101	2.5	2.5	105	102	164	48	90-110	3	10 M6
Sulfate	mg/L	ND	50	50	54.1	54.7	108	109	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3218527 3218528

Parameter	Units	3218527		3218528		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	355	50	50	396	397	82	84	90-110	0	10 M6
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.6	100	99	90-110	0	10
Sulfate	mg/L	368	50	50	415	415	93	95	90-110	0	10

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QUALITY CONTROL DATA

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

QC Batch: 611499 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

METHOD BLANK: 3219178 Matrix: Water
Associated Lab Samples: 92529897047, 92529897048, 92529897049, 92529897050, 92529897051, 92529897052, 92529897053, 92529897054, 92529897055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/06/21 11:52	
Fluoride	mg/L	ND	0.10	0.050	04/06/21 11:52	
Sulfate	mg/L	ND	1.0	0.50	04/06/21 11:52	

LABORATORY CONTROL SAMPLE: 3219179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3219180 3219181

Parameter	Units	92531048001		3219181		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	280	50	50	325	326	90	92	90-110	0	10
Fluoride	mg/L	13.8	2.5	2.5	14.6	14.5	32	29	90-110	0	10 M6
Sulfate	mg/L	876	50	50	916	918	80	82	90-110	0	10 M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3219894 3219895

Parameter	Units	92531021002		3219895		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	179	50	50	227	225	96	93	90-110	1	10
Fluoride	mg/L	5.1	2.5	2.5	7.4	7.4	94	92	90-110	1	10
Sulfate	mg/L	18.5	50	50	70.9	70.4	105	104	90-110	1	10

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QUALIFIERS

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897001	BGWA-29				
92529897004	BGWC-8				
92529897005	BGWC-9				
92529897006	BGWC-12				
92529897007	BGWC-14A				
92529897008	BGWC-16				
92529897009	BGWC-17				
92529897010	BGWC-18				
92529897012	BGWA-47D				
92529897013	BGWA-48D				
92529897014	BGWC-30				
92529897015	BGWC-36D				
92529897018	BGWA-2				
92529897019	BGWC-19				
92529897020	BGWC-23				
92529897021	BGWC-24				
92529897022	BGWC-25				
92529897023	BGWC-35D				
92529897024	BGWC-37D				
92529897027	BGWC-20				
92529897028	BGWC-21				
92529897029	BGWC-22				
92529897030	BGWC-31				
92529897031	BGWC-38D				
92529897032	BGWC-43D				
92529897035	BGWC-7				
92529897036	BGWC-10				
92529897037	BGWC-32				
92529897038	BGWC-34D				
92529897039	BGWC-40				
92529897040	BGWC-51				
92529897041	BGWC-52				
92529897045	BGWA-33				
92529897046	BGWC-42D				
92529897049	BGWA-6				
92529897050	BGWC-39				
92529897051	BGWC-41D				
92529897052	BGWC-44D				
92529897001	BGWA-29	EPA 3010A	611093	EPA 6010D	611154
92529897002	DUP-1	EPA 3010A	611093	EPA 6010D	611154
92529897003	FB-1	EPA 3010A	611093	EPA 6010D	611154
92529897004	BGWC-8	EPA 3010A	611093	EPA 6010D	611154
92529897005	BGWC-9	EPA 3010A	611093	EPA 6010D	611154
92529897006	BGWC-12	EPA 3010A	611093	EPA 6010D	611154
92529897007	BGWC-14A	EPA 3010A	611093	EPA 6010D	611154
92529897008	BGWC-16	EPA 3010A	611093	EPA 6010D	611154
92529897009	BGWC-17	EPA 3010A	611093	EPA 6010D	611154
92529897010	BGWC-18	EPA 3010A	611093	EPA 6010D	611154

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897011	FB-2	EPA 3010A	611093	EPA 6010D	611154
92529897012	BGWA-47D	EPA 3010A	611093	EPA 6010D	611154
92529897013	BGWA-48D	EPA 3010A	611093	EPA 6010D	611154
92529897014	BGWC-30	EPA 3010A	611093	EPA 6010D	611154
92529897015	BGWC-36D	EPA 3010A	611093	EPA 6010D	611154
92529897016	FB-3	EPA 3010A	611093	EPA 6010D	611154
92529897017	EB-1	EPA 3010A	611093	EPA 6010D	611154
92529897018	BGWA-2	EPA 3010A	611682	EPA 6010D	611756
92529897019	BGWC-19	EPA 3010A	611682	EPA 6010D	611756
92529897020	BGWC-23	EPA 3010A	611682	EPA 6010D	611756
92529897021	BGWC-24	EPA 3010A	611682	EPA 6010D	611756
92529897022	BGWC-25	EPA 3010A	611682	EPA 6010D	611756
92529897023	BGWC-35D	EPA 3010A	611682	EPA 6010D	611756
92529897024	BGWC-37D	EPA 3010A	611682	EPA 6010D	611756
92529897025	DUP-2	EPA 3010A	611682	EPA 6010D	611756
92529897026	FB-4	EPA 3010A	611682	EPA 6010D	611756
92529897027	BGWC-20	EPA 3010A	611682	EPA 6010D	611756
92529897028	BGWC-21	EPA 3010A	611682	EPA 6010D	611756
92529897029	BGWC-22	EPA 3010A	611682	EPA 6010D	611756
92529897030	BGWC-31	EPA 3010A	611682	EPA 6010D	611756
92529897031	BGWC-38D	EPA 3010A	611682	EPA 6010D	611756
92529897032	BGWC-43D	EPA 3010A	611682	EPA 6010D	611756
92529897033	FB-5	EPA 3010A	611682	EPA 6010D	611756
92529897034	EB-2	EPA 3010A	611682	EPA 6010D	611756
92529897035	BGWC-7	EPA 3010A	611682	EPA 6010D	611756
92529897036	BGWC-10	EPA 3010A	611682	EPA 6010D	611756
92529897037	BGWC-32	EPA 3010A	611682	EPA 6010D	611756
92529897038	BGWC-34D	EPA 3010A	611684	EPA 6010D	611750
92529897039	BGWC-40	EPA 3010A	611684	EPA 6010D	611750
92529897040	BGWC-51	EPA 3010A	611684	EPA 6010D	611750
92529897041	BGWC-52	EPA 3010A	611684	EPA 6010D	611750
92529897042	DUP-3	EPA 3010A	611684	EPA 6010D	611750
92529897043	FB-6	EPA 3010A	611684	EPA 6010D	611750
92529897044	EB-3	EPA 3010A	611684	EPA 6010D	611750
92529897045	BGWA-33	EPA 3010A	611684	EPA 6010D	611750
92529897046	BGWC-42D	EPA 3010A	611684	EPA 6010D	611750
92529897047	EB-5	EPA 3010A	611684	EPA 6010D	611750
92529897048	FB-8	EPA 3010A	611684	EPA 6010D	611750
92529897049	BGWA-6	EPA 3010A	611684	EPA 6010D	611750
92529897050	BGWC-39	EPA 3010A	611684	EPA 6010D	611750
92529897051	BGWC-41D	EPA 3010A	611684	EPA 6010D	611750
92529897052	BGWC-44D	EPA 3010A	611684	EPA 6010D	611750
92529897053	DUP-4	EPA 3010A	611684	EPA 6010D	611750
92529897054	FB-7	EPA 3010A	611684	EPA 6010D	611750
92529897055	EB-4	EPA 3010A	611684	EPA 6010D	611750
92529897001	BGWA-29	EPA 3005A	611110	EPA 6020B	611177
92529897002	DUP-1	EPA 3005A	611110	EPA 6020B	611177

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897003	FB-1	EPA 3005A	611110	EPA 6020B	611177
92529897004	BGWC-8	EPA 3005A	611110	EPA 6020B	611177
92529897005	BGWC-9	EPA 3005A	611110	EPA 6020B	611177
92529897006	BGWC-12	EPA 3005A	611110	EPA 6020B	611177
92529897007	BGWC-14A	EPA 3005A	611110	EPA 6020B	611177
92529897008	BGWC-16	EPA 3005A	611110	EPA 6020B	611177
92529897009	BGWC-17	EPA 3005A	611110	EPA 6020B	611177
92529897010	BGWC-18	EPA 3005A	611110	EPA 6020B	611177
92529897011	FB-2	EPA 3005A	611110	EPA 6020B	611177
92529897012	BGWA-47D	EPA 3005A	611110	EPA 6020B	611177
92529897013	BGWA-48D	EPA 3005A	611110	EPA 6020B	611177
92529897014	BGWC-30	EPA 3005A	611110	EPA 6020B	611177
92529897015	BGWC-36D	EPA 3005A	611110	EPA 6020B	611177
92529897016	FB-3	EPA 3005A	611110	EPA 6020B	611177
92529897017	EB-1	EPA 3005A	611110	EPA 6020B	611177
92529897018	BGWA-2	EPA 3005A	611685	EPA 6020B	611817
92529897019	BGWC-19	EPA 3005A	611685	EPA 6020B	611817
92529897020	BGWC-23	EPA 3005A	611685	EPA 6020B	611817
92529897021	BGWC-24	EPA 3005A	611685	EPA 6020B	611817
92529897022	BGWC-25	EPA 3005A	611685	EPA 6020B	611817
92529897023	BGWC-35D	EPA 3005A	611685	EPA 6020B	611817
92529897024	BGWC-37D	EPA 3005A	611685	EPA 6020B	611817
92529897025	DUP-2	EPA 3005A	611685	EPA 6020B	611817
92529897026	FB-4	EPA 3005A	611685	EPA 6020B	611817
92529897027	BGWC-20	EPA 3005A	611685	EPA 6020B	611817
92529897028	BGWC-21	EPA 3005A	611685	EPA 6020B	611817
92529897029	BGWC-22	EPA 3005A	611685	EPA 6020B	611817
92529897030	BGWC-31	EPA 3005A	611685	EPA 6020B	611817
92529897031	BGWC-38D	EPA 3005A	611685	EPA 6020B	611817
92529897032	BGWC-43D	EPA 3005A	611685	EPA 6020B	611817
92529897033	FB-5	EPA 3005A	611685	EPA 6020B	611817
92529897034	EB-2	EPA 3005A	611685	EPA 6020B	611817
92529897035	BGWC-7	EPA 3005A	611685	EPA 6020B	611817
92529897036	BGWC-10	EPA 3005A	611685	EPA 6020B	611817
92529897037	BGWC-32	EPA 3005A	611685	EPA 6020B	611817
92529897038	BGWC-34D	EPA 3005A	611686	EPA 6020B	611755
92529897039	BGWC-40	EPA 3005A	611686	EPA 6020B	611755
92529897040	BGWC-51	EPA 3005A	611686	EPA 6020B	611755
92529897041	BGWC-52	EPA 3005A	611686	EPA 6020B	611755
92529897042	DUP-3	EPA 3005A	611686	EPA 6020B	611755
92529897043	FB-6	EPA 3005A	611686	EPA 6020B	611755
92529897044	EB-3	EPA 3005A	611686	EPA 6020B	611755
92529897045	BGWA-33	EPA 3005A	611686	EPA 6020B	611755
92529897046	BGWC-42D	EPA 3005A	611686	EPA 6020B	611755
92529897047	EB-5	EPA 3005A	611686	EPA 6020B	611755
92529897048	FB-8	EPA 3005A	611686	EPA 6020B	611755
92529897049	BGWA-6	EPA 3005A	611686	EPA 6020B	611755
92529897050	BGWC-39	EPA 3005A	611686	EPA 6020B	611755

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897051	BGWC-41D	EPA 3005A	611686	EPA 6020B	611755
92529897052	BGWC-44D	EPA 3005A	611686	EPA 6020B	611755
92529897053	DUP-4	EPA 3005A	611686	EPA 6020B	611755
92529897054	FB-7	EPA 3005A	611686	EPA 6020B	611755
92529897055	EB-4	EPA 3005A	611686	EPA 6020B	611755
92529897001	BGWA-29	EPA 7470A	610453	EPA 7470A	610717
92529897002	DUP-1	EPA 7470A	610453	EPA 7470A	610717
92529897003	FB-1	EPA 7470A	610453	EPA 7470A	610717
92529897004	BGWC-8	EPA 7470A	610453	EPA 7470A	610717
92529897005	BGWC-9	EPA 7470A	610453	EPA 7470A	610717
92529897006	BGWC-12	EPA 7470A	610453	EPA 7470A	610717
92529897007	BGWC-14A	EPA 7470A	610453	EPA 7470A	610717
92529897008	BGWC-16	EPA 7470A	611728	EPA 7470A	611831
92529897009	BGWC-17	EPA 7470A	611728	EPA 7470A	611831
92529897010	BGWC-18	EPA 7470A	611728	EPA 7470A	611831
92529897011	FB-2	EPA 7470A	611728	EPA 7470A	611831
92529897012	BGWA-47D	EPA 7470A	611728	EPA 7470A	611831
92529897013	BGWA-48D	EPA 7470A	611728	EPA 7470A	611831
92529897014	BGWC-30	EPA 7470A	611728	EPA 7470A	611831
92529897015	BGWC-36D	EPA 7470A	611728	EPA 7470A	611831
92529897016	FB-3	EPA 7470A	611728	EPA 7470A	611831
92529897017	EB-1	EPA 7470A	611728	EPA 7470A	611831
92529897018	BGWA-2	EPA 7470A	611728	EPA 7470A	611831
92529897019	BGWC-19	EPA 7470A	611728	EPA 7470A	611831
92529897020	BGWC-23	EPA 7470A	611728	EPA 7470A	611831
92529897021	BGWC-24	EPA 7470A	611728	EPA 7470A	611831
92529897022	BGWC-25	EPA 7470A	612453	EPA 7470A	612469
92529897023	BGWC-35D	EPA 7470A	612453	EPA 7470A	612469
92529897024	BGWC-37D	EPA 7470A	612453	EPA 7470A	612469
92529897025	DUP-2	EPA 7470A	612453	EPA 7470A	612469
92529897026	FB-4	EPA 7470A	612453	EPA 7470A	612469
92529897027	BGWC-20	EPA 7470A	612453	EPA 7470A	612469
92529897028	BGWC-21	EPA 7470A	612453	EPA 7470A	612469
92529897029	BGWC-22	EPA 7470A	612453	EPA 7470A	612469
92529897030	BGWC-31	EPA 7470A	612453	EPA 7470A	612469
92529897031	BGWC-38D	EPA 7470A	613664	EPA 7470A	613872
92529897032	BGWC-43D	EPA 7470A	613664	EPA 7470A	613872
92529897033	FB-5	EPA 7470A	613664	EPA 7470A	613872
92529897034	EB-2	EPA 7470A	613664	EPA 7470A	613872
92529897035	BGWC-7	EPA 7470A	613664	EPA 7470A	613872
92529897036	BGWC-10	EPA 7470A	613664	EPA 7470A	613872
92529897037	BGWC-32	EPA 7470A	613664	EPA 7470A	613872
92529897038	BGWC-34D	EPA 7470A	613664	EPA 7470A	613872
92529897039	BGWC-40	EPA 7470A	614849	EPA 7470A	614925
92529897040	BGWC-51	EPA 7470A	614849	EPA 7470A	614925
92529897041	BGWC-52	EPA 7470A	614849	EPA 7470A	614925

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897042	DUP-3	EPA 7470A	614849	EPA 7470A	614925
92529897043	FB-6	EPA 7470A	614849	EPA 7470A	614925
92529897044	EB-3	EPA 7470A	614849	EPA 7470A	614925
92529897045	BGWA-33	EPA 7470A	614849	EPA 7470A	614925
92529897046	BGWC-42D	EPA 7470A	614849	EPA 7470A	614925
92529897047	EB-5	EPA 7470A	614849	EPA 7470A	614925
92529897048	FB-8	EPA 7470A	614849	EPA 7470A	614925
92529897049	BGWA-6	EPA 7470A	614849	EPA 7470A	614925
92529897050	BGWC-39	EPA 7470A	614849	EPA 7470A	614925
92529897051	BGWC-41D	EPA 7470A	614849	EPA 7470A	614925
92529897052	BGWC-44D	EPA 7470A	614849	EPA 7470A	614925
92529897053	DUP-4	EPA 7470A	614849	EPA 7470A	614925
92529897054	FB-7	EPA 7470A	614849	EPA 7470A	614925
92529897055	EB-4	EPA 7470A	614849	EPA 7470A	614925
92529897001	BGWA-29	SM 2540C-2011	610168		
92529897002	DUP-1	SM 2540C-2011	610168		
92529897003	FB-1	SM 2540C-2011	610168		
92529897004	BGWC-8	SM 2540C-2011	610168		
92529897005	BGWC-9	SM 2540C-2011	610168		
92529897006	BGWC-12	SM 2540C-2011	610168		
92529897007	BGWC-14A	SM 2540C-2011	610168		
92529897008	BGWC-16	SM 2540C-2011	610168		
92529897009	BGWC-17	SM 2540C-2011	610168		
92529897010	BGWC-18	SM 2540C-2011	610168		
92529897011	FB-2	SM 2540C-2011	610168		
92529897012	BGWA-47D	SM 2540C-2011	610168		
92529897013	BGWA-48D	SM 2540C-2011	610168		
92529897014	BGWC-30	SM 2540C-2011	610734		
92529897015	BGWC-36D	SM 2540C-2011	610734		
92529897016	FB-3	SM 2540C-2011	610734		
92529897017	EB-1	SM 2540C-2011	610734		
92529897018	BGWA-2	SM 2540C-2011	610734		
92529897019	BGWC-19	SM 2540C-2011	610734		
92529897020	BGWC-23	SM 2540C-2011	610734		
92529897021	BGWC-24	SM 2540C-2011	610734		
92529897022	BGWC-25	SM 2540C-2011	610734		
92529897023	BGWC-35D	SM 2540C-2011	610734		
92529897024	BGWC-37D	SM 2540C-2011	610734		
92529897025	DUP-2	SM 2540C-2011	610734		
92529897026	FB-4	SM 2540C-2011	610734		
92529897027	BGWC-20	SM 2540C-2011	611498		
92529897028	BGWC-21	SM 2540C-2011	611498		
92529897029	BGWC-22	SM 2540C-2011	611498		
92529897030	BGWC-31	SM 2540C-2011	611498		
92529897031	BGWC-38D	SM 2540C-2011	611498		
92529897032	BGWC-43D	SM 2540C-2011	611498		
92529897033	FB-5	SM 2540C-2011	611498		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL

Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897034	EB-2	SM 2540C-2011	611498		
92529897035	BGWC-7	SM 2540C-2011	611498		
92529897036	BGWC-10	SM 2540C-2011	611498		
92529897037	BGWC-32	SM 2540C-2011	611498		
92529897038	BGWC-34D	SM 2540C-2011	611498		
92529897039	BGWC-40	SM 2540C-2011	611498		
92529897040	BGWC-51	SM 2540C-2011	611498		
92529897041	BGWC-52	SM 2540C-2011	611498		
92529897042	DUP-3	SM 2540C-2011	611498		
92529897043	FB-6	SM 2540C-2011	611498		
92529897044	EB-3	SM 2540C-2011	611498		
92529897045	BGWA-33	SM 2540C-2011	611643		
92529897046	BGWC-42D	SM 2540C-2011	611643		
92529897047	EB-5	SM 2540C-2011	611643		
92529897048	FB-8	SM 2540C-2011	612350		
92529897049	BGWA-6	SM 2540C-2011	611643		
92529897050	BGWC-39	SM 2540C-2011	611643		
92529897051	BGWC-41D	SM 2540C-2011	611643		
92529897052	BGWC-44D	SM 2540C-2011	611643		
92529897053	DUP-4	SM 2540C-2011	611643		
92529897054	FB-7	SM 2540C-2011	611643		
92529897055	EB-4	SM 2540C-2011	611643		
92529897001	BGWA-29	EPA 300.0 Rev 2.1 1993	610263		
92529897002	DUP-1	EPA 300.0 Rev 2.1 1993	610549		
92529897003	FB-1	EPA 300.0 Rev 2.1 1993	610549		
92529897004	BGWC-8	EPA 300.0 Rev 2.1 1993	610549		
92529897005	BGWC-9	EPA 300.0 Rev 2.1 1993	610549		
92529897006	BGWC-12	EPA 300.0 Rev 2.1 1993	610549		
92529897007	BGWC-14A	EPA 300.0 Rev 2.1 1993	610549		
92529897008	BGWC-16	EPA 300.0 Rev 2.1 1993	610549		
92529897009	BGWC-17	EPA 300.0 Rev 2.1 1993	610549		
92529897010	BGWC-18	EPA 300.0 Rev 2.1 1993	610549		
92529897011	FB-2	EPA 300.0 Rev 2.1 1993	610549		
92529897012	BGWA-47D	EPA 300.0 Rev 2.1 1993	610549		
92529897013	BGWA-48D	EPA 300.0 Rev 2.1 1993	610549		
92529897014	BGWC-30	EPA 300.0 Rev 2.1 1993	610549		
92529897015	BGWC-36D	EPA 300.0 Rev 2.1 1993	610955		
92529897016	FB-3	EPA 300.0 Rev 2.1 1993	610955		
92529897017	EB-1	EPA 300.0 Rev 2.1 1993	610955		
92529897018	BGWA-2	EPA 300.0 Rev 2.1 1993	610955		
92529897019	BGWC-19	EPA 300.0 Rev 2.1 1993	610955		
92529897020	BGWC-23	EPA 300.0 Rev 2.1 1993	610955		
92529897021	BGWC-24	EPA 300.0 Rev 2.1 1993	610955		
92529897022	BGWC-25	EPA 300.0 Rev 2.1 1993	610955		
92529897023	BGWC-35D	EPA 300.0 Rev 2.1 1993	610955		
92529897024	BGWC-37D	EPA 300.0 Rev 2.1 1993	610955		

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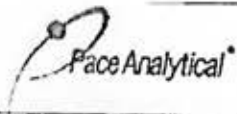
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP SEMIANNUAL
Pace Project No.: 92529897

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529897025	DUP-2	EPA 300.0 Rev 2.1 1993	610955		
92529897026	FB-4	EPA 300.0 Rev 2.1 1993	610955		
92529897027	BGWC-20	EPA 300.0 Rev 2.1 1993	611237		
92529897028	BGWC-21	EPA 300.0 Rev 2.1 1993	611237		
92529897029	BGWC-22	EPA 300.0 Rev 2.1 1993	611237		
92529897030	BGWC-31	EPA 300.0 Rev 2.1 1993	611237		
92529897031	BGWC-38D	EPA 300.0 Rev 2.1 1993	611237		
92529897032	BGWC-43D	EPA 300.0 Rev 2.1 1993	611237		
92529897033	FB-5	EPA 300.0 Rev 2.1 1993	611237		
92529897034	EB-2	EPA 300.0 Rev 2.1 1993	611237		
92529897035	BGWC-7	EPA 300.0 Rev 2.1 1993	611329		
92529897036	BGWC-10	EPA 300.0 Rev 2.1 1993	611329		
92529897037	BGWC-32	EPA 300.0 Rev 2.1 1993	611329		
92529897038	BGWC-34D	EPA 300.0 Rev 2.1 1993	611329		
92529897039	BGWC-40	EPA 300.0 Rev 2.1 1993	611329		
92529897040	BGWC-51	EPA 300.0 Rev 2.1 1993	611329		
92529897041	BGWC-52	EPA 300.0 Rev 2.1 1993	611329		
92529897042	DUP-3	EPA 300.0 Rev 2.1 1993	611329		
92529897043	FB-6	EPA 300.0 Rev 2.1 1993	611329		
92529897044	EB-3	EPA 300.0 Rev 2.1 1993	611329		
92529897045	BGWA-33	EPA 300.0 Rev 2.1 1993	611329		
92529897046	BGWC-42D	EPA 300.0 Rev 2.1 1993	611329		
92529897047	EB-5	EPA 300.0 Rev 2.1 1993	611499		
92529897048	FB-8	EPA 300.0 Rev 2.1 1993	611499		
92529897049	BGWA-6	EPA 300.0 Rev 2.1 1993	611499		
92529897050	BGWC-39	EPA 300.0 Rev 2.1 1993	611499		
92529897051	BGWC-41D	EPA 300.0 Rev 2.1 1993	611499		
92529897052	BGWC-44D	EPA 300.0 Rev 2.1 1993	611499		
92529897053	DUP-4	EPA 300.0 Rev 2.1 1993	611499		
92529897054	FB-7	EPA 300.0 Rev 2.1 1993	611499		
92529897055	EB-4	EPA 300.0 Rev 2.1 1993	611499		

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92529897



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

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 219 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 3.6 Correction Factor: Add/Subtract (°C) ±0.1

Date/Initials Person Examining Contents: MT 3/26/21
 Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

MSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Mather Road
 Atlanta, GA 30339
 Email: kjturnik@stuherr.com
 Phone: (404) 506-7239 Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Kristen Jurkio
 Copy To: Geographic Contacts
 Purchase Order #: Plant Bowen AP Semiannual
 Project Name: Plant Bowen AP Semiannual
 Project #:

Section C

Invoice Information:

Attention: Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin.Herring@pacelabs.com
 Pace Profile #: 315

Regulatory Agency

State / Location
GA

ITEM #	SAMPLE ID One character per box. A-Z, 0-9 /, - Sample IDs must be unique	MATRIX Drying Water Water Waste Water Process Sludge Oil Wipe Air Other Trace	CODE DM WT WW P SL OL WP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	BGWA-2																	
2	BGWA-25																	
3	BGWA-35																	
4	BGWA-47D			3/25/21	1603		5	2										
5	BGWA-48D			3/25/21	1136		5	2		3								
6	BGWA-7																	
7	BGWA-8																	
8	BGWA-9																	
9	BGWA-16																	
10	BGWA-15																	
11	BGWA-14A																	
12	BGWA-16																	

ADDITIONAL COMMENTS

REWORKED BY / AFFILIATION: *Kevin Stephenson*

DATE: *3/26/21* TIME: *1208*

ACCEPTED BY / AFFILIATION: *Kevin Williams / Pace*

DATE: *3/26/21* TIME: *0926*

SAMPLER NAME AND SIGNATURE: *Kevin Stephenson*

PRINT Name of SAMPLER: *Will Laker Kevin Stephenson*

SIGNATURE of SAMPLER: *[Signature]* DATE Signed: *3/15/21*

EMP In C

received on (N)

custody sealed cooler (N)

samples intact (N)



Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Maier Road Atlanta, GA 30339
 Report To: Kristen Jurkic
 Copy To: Geographic Contacts
 Project Name: Plant Bowen AP Semiannual
 Project #:
 Purchase Order #:
 Invoice Attention:
 Company Name:
 Address:
 POC Name:
 POC Project Manager: Kevin.Herrington@pacelabs.com
 POC Profile #: 315
 Regulatory Agency:
 State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drying Weir Water Waste Weir Pond Sediment OI Mud As Other Tank	CODE DW WT WW P SL OI WP AS OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requester Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH	
				DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
13	BGWC-17																
14	BGWE-18																
15	BGWE-15																
16	BGWE-20																
17	BGWE-21																
18	BGWE-22																
19	BGWC-23																
20	BGWE-24																
21	BGWC-25																
22	BGWC-30			3/25/21	1120		5	2	3								
23	BGWA-0																
24	BGWE-31																

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Kevin Stephenson / Pacelabs
 Date: 3/24/21
 TIME: 0728

ACCEPTED BY / AFFILIATION: Kevin Stephenson / Pacelabs
 Date: 3/25/21
 TIME: 1200

DATE SIGNED: 3/25/21

PH: 7.21

EMP in C: 3.6

received on site (Y/N): Y

custody sealed cooler (Y/N): N

samples intact (Y/N): Y



Section A
Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Mahner Road
 Atlanta, GA 30339
 Email: kjvink@southemco.com
 Phone: (404)504-7229 Fax
 Requested Due Date:

Section B
Required Project Information:

Report To: Kristan Jarrico
 Copy To: Geosynetic Contacts
 Purchase Order #:
 Project Name: Plant Bowen AP Semianual
 Project #:

Section C
Invoice Information:

Attention:
 Company Name:
 Address:
 Pico Quote:
 Pico Project Manager: Kevin.herring@pacelabs.com
 Pico Profile #: 315

Regulatory Agency

State / Location
GA

ITEM #	SAMPLE ID One Character per box. A-Z, 0-9 / - / + Sample IDs must be unique	MATRIX Droving Water Waste Water Waste Water Process CI Wipe Air Other Tissue	CODE DW WWT WW P SL WIP AS OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other
25	BGWE-94																		
26	BGWC-34B																		
27	BGWE-34B																		
28	BGWC-34D			3/25/21	1553		5	2											
29	BGWC-34B																		
30	BGWE-34B																		
31	BGWC-35																		
32	BGWC-44																		
33	BGWC-41D																		
34	BGWC-44B																		
35	BGWE-43B																		
36	BGWC-44D																		
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME	
				Kevin Stephens				3/24/21		1200		Kevin Stephens				3/24/21		1200	
				Kevin Stephens				3/24/21		1200		Kevin Stephens				3/24/21		1200	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Will LaRoc, Kevin Stephenson
 SIGNATURE OF SAMPLER: *Will LaRoc* *Kevin Stephenson*
 DATE Signed: 2/7/21

EMP In C
 Received on (Y/N)
 Custody sealed cooler (Y/N)
 Samples intact (Y/N)

Kevin Williams

Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Murrie Road
 Atlanta, GA 30339
 Email: KevinWilliams@ge.com
 Phone: (404) 506-7239 Fax
 Requested Due Date:

Section B

Required Project Information:

Report To: Kristen Jureha
 Copy To: Geosynthetic Contacts
 Purchase Order #:
 Project Name: Plant Bowen AP Semiannual
 Project #:

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pico Quater
 Pico Project Manager: [Kevin Williams](mailto:KevinWilliams@ge.com)
 Pico Profile #: 315

Page: 1 of 5

Regulatory Agency:
 State/Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyzes Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					START	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	BGWA-2																
2	BGWA-29																
3	BGWA-33																
4	BGWA-47E																
5	BGWA-48E																
6	BGWC-7		5G	3/30/21	0935			5	2	3							7.05
7	BGWC-8																
8	BGWC-9																
9	BGWC-10		5G	3/30/21	1137			5	2	3							7.11
10	BGWC-12																
11	BGWC-14A																
12	BGWC-16																

ADDITIONAL COMMENTS:
 RELINQUISHED BY / AFFILIATION:
 DATE:
 TIME:
 ACCEPTED BY / AFFILIATION:
 DATE:
 TIME:
 SAMPLE NAME AND SIGNATURE:
 PRINT Name of SAMPLER:
 SIGNATURE:
 DATE Signed:
 TEMP in C:
 Received on:
 Custody sealed cooler:
 Samples intact:
 SAMPLE CONDITIONS:
 Y/N

Kevin Williams

Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
 Address: 2460 Marler Road
 Atlanta, GA 30339
 Email: ktl@epa.com
 Phone: (404) 506-2219
 Requested Due Date:

Section B

Required Project Information:

Report To: Kristen Jurkko
 Copy To: Geosynthetic Contacts
 Project Name: Plant Bowen AP Semiannual
 Project #:

Section C

Invoice Information:

Attention: Company Name:
 Address:
 Pace Quota:
 Pace Project Manager: Kevin Henning
 Pace Profile #: 315

Regulatory Agency
 State / Location
 GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique	MATRIX Drinking Water Waste Water Process Surface Other TS	CODE DW WW P SL WP AP OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
37	BGWC-499																	
38	BGWC-509																	
39	BGWC-51						52	3										
40	BGWC-52						52	3										
41	DUP-1																	
42	DUP-2																	
43	DUP-3						52	3										
44	DUP-4																	
45	FB-1																	
46	FB-2																	
47	FB-3																	
48	FB-4																	

ADDITIONAL COMMENTS: *Kevin Williams / Pace*

RELINQUISHED BY / AFFILIATION: *Kevin Williams / Pace*

DATE: *3/31/12* TIME: *1200*

ACCEPTED BY / AFFILIATION: *Kevin Williams / Pace*

DATE: *3/31/12* TIME: *1200*

SAMPLER NAME AND SIGNATURE: *Kevin Williams*

DATE SHIPPED: *3/31/12*

EMP In C

Received on a (Y/N)

custody tested cooler (Y/N)

samples intact (Y/N)

Section A

Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Marler Road
 Atlanta, GA 30339
 Email: knlurthk@scd.jhrc.com
 Phone: (404) 905-2339 Fax:
 Requested Due Date:

Section B
Required Project Information:
 Report To: Kristen Juritko
 Copy To: Geosynthetic Contacts
 Purchase Order #:
 Project Name: Plant Bowen AP Semiannual
 Project #:

Section C
Invoice Information:
 Attention:
 Company Name:
 Address:
 POC Project Manager: Kevin Herring@pacslabs.com
 POC Profile #: 315

Regulatory Agency
 State: Georgia
 GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	BGWA-2	DW																	
2	BGWA-29	WT																	
3	BGWA-33	WW			4/1/21	0945		5	2	3									
4	BGWA-479	P																	
5	BGWA-489	SL																	
6	BGWA-7	CL																	
7	BGWA-8	WP																	
8	BGWA-9	AR																	
9	BGWA-10	TS																	
10	BGWA-12																		
11	BGWA-14A																		
12	BGWA-16																		
ADDITIONAL COMMENTS					REQUISITIONED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS						
					Will Laker / Resolute		4/2/21	1036	Ron Williams / Pace		4/2/21	1036							
					Ron Williams / Pace		4/2/21	1335	Ron Williams / Pace		4/2/21	1335							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Joe Booth
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 4/1/21

TEMP In C
 Received on to Y/N)
 Sustody ealed Cooler Y/N)
 Samples tfect Y/N)

pH 7.75



Section A Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Mosler Road
 Atlanta, GA 30339
 Email: kmurink@sqd.jherico.com
 Phone: (404)506-7239 Fax: _____
 Requested Due Date: _____

Section B Required Project Information:
 Report To: Kristin Jurfiko
 Copy To: Geosynthetic Contacts
 Purchase Order #: _____
 Project Name: Plant Bowen AP Semianual
 Project #: _____

Section C Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 315

Regulatory Agency: _____
 State / Location: _____
 GA

ITEM #	SAMPLE ID One Character per box. (1-2, 0-9 / -) Samples must be unique	MATRIX Drying Weir Weir Weir Weir Pond Suspended OI Weir AP OT TS	CODE DW WT WV P SL OK MP AP OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)
				DATE	TIME							
17	BGWC-32											
25	BGWC-34D											
27	BGWC-35D											
28	BGWC-36D											
29	BGWC-37D											
20	BGWC-38B											
21	BGWC-39											
42	BGWC-46											
35	BGWC-47B											
24	BGWC-42D	BGWC-42D		4/1/21	1105		5 2 3					
26	BGWC-43D											
36	BGWC-44D											

ADDITIONAL COMMENTS

REQUISITIONED BY / AFFILIATION: Will Leaker / Resolute
 Pym Williams / Pace

DATE: 4/1/21 1036
 4/2/21 1336

ACCEPTED BY / AFFILIATION: Pym Williams / Pace
 Pym Williams / Pace

DATE: 4/2/21 1036
 4/2/21 1335

SAMPLER NAME AND SIGNATURE: Joe Ruth

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: . . .

EMP In C

received on _____ (Y/N)

custody released cooler (Y/N)

samples act (Y/N)

PH 7.44



Section A

Section B

Section C

Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Walker Road
 Atlanta, GA 30339

Required Project Information:
 Report To: Kristin Juritko
 Copy To: Geosynthetic Contacts
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pico Quote:
 Pico Project Manager: Kevin Herring@picoelabs.com
 Pico Profile #: 315

Requested Analytical Titration (Y/N)
 State / Location: GA

Regulatory Agency

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Requested Analytical Titration (Y/N)	Residual Chlorine (Y/N)	PH											
					START	DATE			TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3						Methanol	Other									
13	BGWC-47	DW WT P SL OK WP AR DT TS																													
14	BGWC-46																														
15	BGWC-46																														
16	BGWC-26																														
17	BGWC-24																														
18	BGWC-22																														
19	BGWC-22																														
20	BGWC-24																														
21	BGWC-25																														
22	BGWC-36																														
23	BGWA-6																														
24	BGWC-37																														
ADDITIONAL COMMENTS		REIMBURSED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		EMP In C		received on		Y/N)		ustody		selected		cooler		Y/N)		amples		fact		Y/N)	
		Will Leaker / Resolute Byron Williams / Pico		4/2/21	1036	Byron Williams / Pico		4/2/21	1036																						
				4/2/21	1335	Byron Williams / Pico		4/2/21	1335																						



Section A

Required Client Information:

Company: Georgia Power - Coal Combustion Residuals
Address: 2480 Walker Road
Atlanta, GA 30339
Phone: (404)506-7239 Fax:
Email: krlunin@scd.jheresco.com
Requested Due Date:

Section B

Required Project Information:

Report To: Kristen Junkko
Copy To: Geographic Contacts
Purchase Order #:
Project Name: Plant Bowen AP Semiannual
Project #:

Section C

Invoice Information:

Attention:
Company Name:
Address:
Paco Quote:
Paco Project Manager: Kevin Herring@pacelabs.com
Paco Profile #: 315

Regulatory Agency:
State/Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)				
				DM	WT					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	RAD 9315/9320	TDS	Cl, F, SO4
		Droxy Water Water Waste Water Product Solid Oil Wipe Air Other Tissue			START																			
37	BGWS-49D																							
38	BGWS-50B																							
39	BGWS-51																							
40	BGWS-52																							
41	DUP-1																							
42	DUP-2																							
43	DUP-3																							
44	DUP-4					3/31/21			5	2	3													
45	FB-1																							
46	FB-2																							
47	FB-3																							
48	FB-4																							

ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Will Locker / Resolute	4/2/21	1036	Ryan Williams / Paco	4/2/21	1036	
	Ryan Williams / Paco	4/2/21	1335	Ryan Williams / Paco	4/2/21	1335	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Will Locker, Joe Booth, Kevin Stephenson
 SIGNATURE of SAMPLER: [Signatures]
 DATE Signed: 2/21/21

EMP In C
 Received on (N)
 Custody sealed cooler (N)
 Samples intact (N)

June 01, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP S/A RADS
Pace Project No.: 92534163

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP S/A RAD5
Pace Project No.: 92534163

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92534163001	BGWC-49D	Water	04/19/21 16:49	04/20/21 10:50
92534163002	BGWC-50D	Water	04/19/21 11:37	04/20/21 10:50
92534163003	FB-9	Water	04/19/21 17:10	04/20/21 10:50
92534163004	EB-6	Water	04/19/21 17:56	04/20/21 10:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92534163001	BGWC-49D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534163002	BGWC-50D	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534163003	FB-9	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92534163004	EB-6	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP S/A RADS
Pace Project No.: 92534163

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92534163001	BGWC-49D					
EPA 9315	Radium-226	1.57 ± 0.512 (0.380) C:82% T:NA	pCi/L		05/11/21 08:42	
EPA 9320	Radium-228	0.881 ± 0.506 (0.945) C:75% T:81%	pCi/L		05/21/21 11:18	
Total Radium Calculation	Total Radium	2.45 ± 1.02 (1.33)	pCi/L		05/24/21 14:41	
92534163002	BGWC-50D					
EPA 9315	Radium-226	0.605 ± 0.299 (0.353) C:91% T:NA	pCi/L		05/11/21 08:58	
EPA 9320	Radium-228	0.402 ± 0.415 (0.861) C:75% T:79%	pCi/L		05/21/21 11:18	
Total Radium Calculation	Total Radium	1.01 ± 0.714 (1.21)	pCi/L		05/24/21 14:41	
92534163003	FB-9					
EPA 9315	Radium-226	0.0553 ± 0.135 (0.328) C:88% T:NA	pCi/L		05/11/21 08:43	
EPA 9320	Radium-228	0.182 ± 0.409 (0.905) C:79% T:76%	pCi/L		05/21/21 11:18	
Total Radium Calculation	Total Radium	0.237 ± 0.544 (1.23)	pCi/L		05/24/21 14:41	
92534163004	EB-6					
EPA 9315	Radium-226	0.0346 ± 0.196 (0.506) C:81% T:NA	pCi/L		05/11/21 08:43	
EPA 9320	Radium-228	0.402 ± 0.421 (0.878) C:78% T:84%	pCi/L		05/21/21 11:18	
Total Radium Calculation	Total Radium	0.437 ± 0.617 (1.38)	pCi/L		05/24/21 14:41	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-49D Lab ID: 92534163001 Collected: 04/19/21 16:49 Received: 04/20/21 10:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.57 ± 0.512 (0.380) C:82% T:NA	pCi/L	05/11/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.881 ± 0.506 (0.945) C:75% T:81%	pCi/L	05/21/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.45 ± 1.02 (1.33)	pCi/L	05/24/21 14:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BGWC-50D Lab ID: 92534163002 Collected: 04/19/21 11:37 Received: 04/20/21 10:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.605 ± 0.299 (0.353) C:91% T:NA	pCi/L	05/11/21 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.402 ± 0.415 (0.861) C:75% T:79%	pCi/L	05/21/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.01 ± 0.714 (1.21)	pCi/L	05/24/21 14:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Sample: FB-9 **Lab ID: 92534163003** Collected: 04/19/21 17:10 Received: 04/20/21 10:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0553 ± 0.135 (0.328) C:88% T:NA	pCi/L	05/11/21 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.182 ± 0.409 (0.905) C:79% T:76%	pCi/L	05/21/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.237 ± 0.544 (1.23)	pCi/L	05/24/21 14:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

Sample: EB-6 **Lab ID: 92534163004** Collected: 04/19/21 17:56 Received: 04/20/21 10:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0346 ± 0.196 (0.506) C:81% T:NA	pCi/L	05/11/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.402 ± 0.421 (0.878) C:78% T:84%	pCi/L	05/21/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.437 ± 0.617 (1.38)	pCi/L	05/24/21 14:41	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

QC Batch: 446113

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534163001, 92534163002, 92534163003, 92534163004

METHOD BLANK: 2153172

Matrix: Water

Associated Lab Samples: 92534163001, 92534163002, 92534163003, 92534163004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0351 ± 0.201 (0.568) C:85% T:NA	pCi/L	05/11/21 08:34	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

QC Batch: 447812

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92534163001, 92534163002, 92534163003, 92534163004

METHOD BLANK: 2161166

Matrix: Water

Associated Lab Samples: 92534163001, 92534163002, 92534163003, 92534163004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.403 ± 0.302 (0.581) C:76% T:89%	pCi/L	05/21/21 11:16	

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

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QUALIFIERS

Project: BOWEN AP S/A RADS

Pace Project No.: 92534163

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP S/A RAD5
Pace Project No.: 92534163

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534163001	BGWC-49D	EPA 9315	446113		
92534163002	BGWC-50D	EPA 9315	446113		
92534163003	FB-9	EPA 9315	446113		
92534163004	EB-6	EPA 9315	446113		
92534163001	BGWC-49D	EPA 9320	447812		
92534163002	BGWC-50D	EPA 9320	447812		
92534163003	FB-9	EPA 9320	447812		
92534163004	EB-6	EPA 9320	447812		
92534163001	BGWC-49D	Total Radium Calculation	449391		
92534163002	BGWC-50D	Total Radium Calculation	449391		
92534163003	FB-9	Total Radium Calculation	449391		
92534163004	EB-6	Total Radium Calculation	449391		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92534163



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *4/20/21*
CPH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: *2.2* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.2*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 23, 2010
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92534163

PM: KLH1

Due Date: 05/11/21

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LHRg

**Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (p>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	IG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Uru (N/A)	DG9P-40 mL VOA HPO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/CR (3 vials per kit)-V/CR/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NI12)SO4 (0.1-0.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

BPIN

Y.P.P.P.S

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 5/10/2021
Worklist: 60299
Matrix: DW

Method Blank Assessment	
MB Sample ID	2153172
MB concentration:	-0.035
M/B Counting Uncertainty:	0.201
MB MDC:	0.568
MB Numerical Performance Indicator:	-0.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS D (Y or N)?	Y
Count Date:		LCS60299	LCS60299
Spike I.D.:	5/11/2021	5/11/2021	5/11/2021
Decay Corrected Spike Concentration (pCi/mL):	19-033	19-033	19-033
Volume Used (mL):	24.038	24.038	24.038
Aliquot Volume (L, g, F):	0.10	0.10	0.10
Target Conc. (pCi/L, g, F):	0.504	0.504	0.504
Uncertainty (Calculated):	4.773	4.773	4.773
Result (pCi/L, g, F):	0.058	0.057	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	5.300	4.771	4.771
Numerical Performance Indicator:	0.803	0.761	0.761
Percent Recovery:	1.21	110.33%	99.96%
Status vs Numerical Indicator:	N/A	N/A	N/A
Upper % Recovery Limits:	Pass	Pass	Pass
Lower % Recovery Limits:	125%	125%	125%
	75%	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS60299
Duplicate Sample I.D.:	LCS60299
Sample Result (pCi/L, g, F):	5.300
Sample Result Counting Uncertainty (pCi/L, g, F):	0.803
Sample Duplicate Result (pCi/L, g, F):	4.771
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.761
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.936
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.86%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Matrix Spike Duplicate Result:
Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

Quality Control Sample Performance Assessment



Test: Re-228
Analyst: VAL
Date: 5/18/2021
Worksheet: B0521
MainX: WJF

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2161168
MB Concentration:	0.403
MB 2 Sigma CSU	0.302
MB MDCC	0.681
MB Numerical Performance Indicator	2.62
MB Status vs Numerical Indicator	Warn
MB Status vs MDCC	Pass

Laboratory Control Sample Assessment		
Count date	LCSD (Y or N)?	Y
Sample ID: 5211021	LCSD0621	LCSD0621
Decay Corrected Spike Concentration (pCi/mL)	21.003	21.003
Volume Used (mL)	37.617	37.617
Aliquot Volume (L, g, F)	0.10	0.10
Target Conc. (pCi/L, g, F)	0.811	0.810
Uncertainty (Calculated)	4.636	4.646
Result (pCi/L, g, F)	0.227	0.228
LCSD Used 2 Sigma CSU (pCi/L, g, F)	0.876	0.789
Numerical Performance Indicator:	-2.41	-3.75
Percent Recovery:	75.99%	66.18%
Status vs Numerical Indicator:	NA	NA
Status vs Recovery:	Pass	Pass
Upper % Recovery Limit:	135%	135%
Lower % Recovery Limit:	60%	60%

Duplicate Sample Assessment	
Sample ID:	LCSD0521
Duplicate Sample ID:	LCSD0621
Sample Result (pCi/L, g, F):	3.523
Sample Duplicate Result (pCi/L, g, F):	0.876
Sample Duplicate Result (pCi/L, g, F):	3.075
Avg sample under duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.745
(Based on the LCSD Percent Recoveries) Duplicate RPD:	13.81%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	26%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date	Sample ID		
Sample MS ID	Sample MS ID		
Spike ID	Spike ID		
MS/MSD Decay Corrected Spike Concentration (pCi/mL)	Spike Volume Used in MS (mL)		
Spike Volume Used in MS (mL)	Spike Volume Used in MSD (mL)		
MS Aliquot (L, g, F)	MS Aliquot (L, g, F)		
MS Target Conc. (pCi/L, g, F)	MSD Aliquot (L, g, F)		
MSD Target Conc. (pCi/L, g, F)	MSD Target Conc. (pCi/L, g, F)		
MS Spike (Uncertainty Calculated)	MSD Spike (Uncertainty Calculated)		
MSD Spike (Uncertainty Calculated)	MSD Spike (Uncertainty Calculated)		
Sample Result	Sample Result		
Sample Result 2 Sigma CSU (pCi/L, g, F)	Sample Result 2 Sigma CSU (pCi/L, g, F)		
Sample Matrix Spike Result	Sample Matrix Spike Result		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F)		
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:	MSD Numerical Performance Indicator:		
MS Percent Recovery:	MS Percent Recovery:		
MSD Percent Recovery:	MSD Percent Recovery:		
Status vs Numerical Indicator:	Status vs Numerical Indicator:		
Status vs Recovery:	Status vs Recovery:		
MS/MSD Upper % Recovery Limit:	MS/MSD Upper % Recovery Limit:		
MS/MSD Lower % Recovery Limit:	MS/MSD Lower % Recovery Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample ID:	Sample MS ID
Sample MS ID	Sample MS ID
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
MS/MSD Duplicate Status vs RPD:	% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDCC.

Comments:

QUALIFIED
 5/21/21

May 04, 2021

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: BOWEN AP S/A
Pace Project No.: 92534169

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BOWEN AP S/A

Pace Project No.: 92534169

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BOWEN AP S/A

Pace Project No.: 92534169

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92534169001	BGWC-49D	Water	04/19/21 16:49	04/20/21 10:50
92534169002	BGWC-50D	Water	04/19/21 11:37	04/20/21 10:50
92534169003	FB-9	Water	04/19/21 17:10	04/20/21 10:50
92534169004	EB-6	Water	04/19/21 17:56	04/20/21 10:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BOWEN AP S/A

Pace Project No.: 92534169

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92534169001	BGWC-49D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92534169002	BGWC-50D	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	ECH	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92534169003	FB-9	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92534169004	EB-6	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP S/A

Pace Project No.: 92534169

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92534169001	BGWC-49D					
	Performed by	CUSTOME			04/20/21 16:18	
		R				
	pH	7.45	Std. Units		04/20/21 16:18	
EPA 6010D	Iron	0.27	mg/L	0.040	04/22/21 21:05	
EPA 6010D	Manganese	0.25	mg/L	0.040	04/22/21 21:05	
EPA 6010D	Potassium	2.6	mg/L	0.20	04/22/21 21:05	
EPA 6010D	Sodium	33.1	mg/L	1.0	04/22/21 21:05	
EPA 6010D	Calcium	204	mg/L	1.0	04/22/21 21:05	
EPA 6010D	Magnesium	88.2	mg/L	0.050	04/22/21 21:05	
EPA 6020B	Antimony	0.00039J	mg/L	0.0030	04/29/21 15:10	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	04/29/21 15:10	
EPA 6020B	Barium	0.077	mg/L	0.0050	04/29/21 15:10	
EPA 6020B	Boron	7.8	mg/L	0.040	04/29/21 15:10	M1
EPA 6020B	Chromium	0.00071J	mg/L	0.0050	04/29/21 15:10	
EPA 6020B	Cobalt	0.00079J	mg/L	0.0050	04/29/21 15:10	
EPA 6020B	Lead	0.000044J	mg/L	0.0010	04/29/21 15:10	
EPA 6020B	Lithium	0.0083J	mg/L	0.030	04/29/21 15:10	
EPA 6020B	Molybdenum	0.0067J	mg/L	0.010	04/29/21 15:10	
SM 2540C-2011	Total Dissolved Solids	970	mg/L	100	04/21/21 23:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	105	mg/L	5.0	04/29/21 17:24	
SM 2320B-2011	Alkalinity, Total as CaCO3	105	mg/L	5.0	04/29/21 17:24	
EPA 300.0 Rev 2.1 1993	Chloride	419	mg/L	9.0	04/27/21 07:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	04/22/21 02:45	
EPA 300.0 Rev 2.1 1993	Sulfate	223	mg/L	3.0	04/26/21 23:08	
92534169002	BGWC-50D					
	Performed by	CUSTOME			04/20/21 16:18	
		R				
	pH	7.54	Std. Units		04/20/21 16:18	
EPA 6010D	Iron	0.77	mg/L	0.040	04/22/21 21:09	
EPA 6010D	Manganese	0.10	mg/L	0.040	04/22/21 21:09	
EPA 6010D	Potassium	1.3	mg/L	0.20	04/22/21 21:09	
EPA 6010D	Sodium	12.3	mg/L	1.0	04/22/21 21:09	
EPA 6010D	Calcium	50.8	mg/L	1.0	04/22/21 21:09	
EPA 6010D	Magnesium	27.8	mg/L	0.050	04/22/21 21:09	
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	04/29/21 15:32	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	04/29/21 15:32	
EPA 6020B	Barium	0.033	mg/L	0.0050	04/29/21 15:32	
EPA 6020B	Boron	0.16	mg/L	0.040	04/29/21 15:32	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	04/29/21 15:32	
EPA 6020B	Lead	0.00014J	mg/L	0.0010	04/29/21 15:32	
EPA 6020B	Molybdenum	0.0043J	mg/L	0.010	04/29/21 15:32	
SM 2540C-2011	Total Dissolved Solids	270	mg/L	10.0	04/21/21 23:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	247	mg/L	5.0	04/29/21 23:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	247	mg/L	5.0	04/29/21 23:35	
EPA 300.0 Rev 2.1 1993	Chloride	25.6	mg/L	1.0	04/27/21 09:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	04/27/21 09:46	
EPA 300.0 Rev 2.1 1993	Sulfate	26.7	mg/L	1.0	04/27/21 09:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: BOWEN AP S/A

Pace Project No.: 92534169

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92534169003	FB-9					
EPA 6020B	Antimony	0.00056J	mg/L	0.0030	04/29/21 15:38	
EPA 6020B	Boron	0.026J	mg/L	0.040	04/29/21 15:38	
92534169004	EB-6					
EPA 6020B	Antimony	0.00033J	mg/L	0.0030	04/29/21 15:44	
EPA 6020B	Boron	0.015J	mg/L	0.040	04/29/21 15:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP S/A

Sample Project No.: 92534169

Sample: BGWC-49D		Lab ID: 92534169001		Collected: 04/19/21 16:49		Received: 04/20/21 10:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 16:18		
pH	7.45	Std. Units			1		04/20/21 16:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.27	mg/L	0.040	0.016	1	04/22/21 12:16	04/22/21 21:05	7439-89-6	
Manganese	0.25	mg/L	0.040	0.0017	1	04/22/21 12:16	04/22/21 21:05	7439-96-5	
Potassium	2.6	mg/L	0.20	0.056	1	04/22/21 12:16	04/22/21 21:05	7440-09-7	
Sodium	33.1	mg/L	1.0	0.26	1	04/22/21 12:16	04/22/21 21:05	7440-23-5	
Calcium	204	mg/L	1.0	0.070	1	04/22/21 12:16	04/22/21 21:05	7440-70-2	
Magnesium	88.2	mg/L	0.050	0.0076	1	04/22/21 12:16	04/22/21 21:05	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00039J	mg/L	0.0030	0.00028	1	04/22/21 12:12	04/29/21 15:10	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.00078	1	04/22/21 12:12	04/29/21 15:10	7440-38-2	
Barium	0.077	mg/L	0.0050	0.00071	1	04/22/21 12:12	04/29/21 15:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/22/21 12:12	04/29/21 15:10	7440-41-7	
Boron	7.8	mg/L	0.040	0.0052	1	04/22/21 12:12	04/29/21 15:10	7440-42-8	M1
Cadmium	ND	mg/L	0.00050	0.00012	1	04/22/21 12:12	04/29/21 15:10	7440-43-9	
Chromium	0.00071J	mg/L	0.0050	0.00055	1	04/22/21 12:12	04/29/21 15:10	7440-47-3	
Cobalt	0.00079J	mg/L	0.0050	0.00038	1	04/22/21 12:12	04/29/21 15:10	7440-48-4	
Lead	0.000044J	mg/L	0.0010	0.000036	1	04/22/21 12:12	04/29/21 15:10	7439-92-1	
Lithium	0.0083J	mg/L	0.030	0.00081	1	04/22/21 12:12	04/29/21 15:10	7439-93-2	
Molybdenum	0.0067J	mg/L	0.010	0.00069	1	04/22/21 12:12	04/29/21 15:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/22/21 12:12	04/29/21 15:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/22/21 12:12	04/29/21 15:10	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	970	mg/L	100	100	1		04/21/21 23:10		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	105	mg/L	5.0	5.0	1		04/29/21 17:24		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		04/29/21 17:24		
Alkalinity, Total as CaCO ₃	105	mg/L	5.0	5.0	1		04/29/21 17:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP S/A

Pace Project No.: 92534169

Sample: BGWC-49D		Lab ID: 92534169001		Collected: 04/19/21 16:49	Received: 04/20/21 10:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		04/22/21 04:45	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	419	mg/L	9.0	5.4	9		04/27/21 07:52	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		04/22/21 02:45	16984-48-8	
Sulfate	223	mg/L	3.0	1.5	3		04/26/21 23:08	14808-79-8	

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ANALYTICAL RESULTS

Project: BOWEN AP S/A

Pace Project No.: 92534169

Sample: BGWC-50D		Lab ID: 92534169002		Collected: 04/19/21 11:37		Received: 04/20/21 10:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		04/20/21 16:18		
pH	7.54	Std. Units			1		04/20/21 16:18		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	0.77	mg/L	0.040	0.016	1	04/22/21 12:16	04/22/21 21:09	7439-89-6	
Manganese	0.10	mg/L	0.040	0.0017	1	04/22/21 12:16	04/22/21 21:09	7439-96-5	
Potassium	1.3	mg/L	0.20	0.056	1	04/22/21 12:16	04/22/21 21:09	7440-09-7	
Sodium	12.3	mg/L	1.0	0.26	1	04/22/21 12:16	04/22/21 21:09	7440-23-5	
Calcium	50.8	mg/L	1.0	0.070	1	04/22/21 12:16	04/22/21 21:09	7440-70-2	
Magnesium	27.8	mg/L	0.050	0.0076	1	04/22/21 12:16	04/22/21 21:09	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0019J	mg/L	0.0030	0.00028	1	04/22/21 12:12	04/29/21 15:32	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.00078	1	04/22/21 12:12	04/29/21 15:32	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00071	1	04/22/21 12:12	04/29/21 15:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	04/22/21 12:12	04/29/21 15:32	7440-41-7	
Boron	0.16	mg/L	0.040	0.0052	1	04/22/21 12:12	04/29/21 15:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/22/21 12:12	04/29/21 15:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	04/22/21 12:12	04/29/21 15:32	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00038	1	04/22/21 12:12	04/29/21 15:32	7440-48-4	
Lead	0.00014J	mg/L	0.0010	0.000036	1	04/22/21 12:12	04/29/21 15:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	04/22/21 12:12	04/29/21 15:32	7439-93-2	
Molybdenum	0.0043J	mg/L	0.010	0.00069	1	04/22/21 12:12	04/29/21 15:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	04/22/21 12:12	04/29/21 15:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	04/22/21 12:12	04/29/21 15:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	270	mg/L	10.0	10.0	1		04/21/21 23:10		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	247	mg/L	5.0	5.0	1		04/29/21 23:35		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		04/29/21 23:35		
Alkalinity, Total as CaCO ₃	247	mg/L	5.0	5.0	1		04/29/21 23:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP S/A

Pace Project No.: 92534169

Sample: BGWC-50D		Lab ID: 92534169002		Collected: 04/19/21 11:37	Received: 04/20/21 10:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		04/22/21 04:45	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	25.6	mg/L	1.0	0.60	1		04/27/21 09:46	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		04/27/21 09:46	16984-48-8	
Sulfate	26.7	mg/L	1.0	0.50	1		04/27/21 09:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP S/A
Pace Project No.: 92534169

Sample: FB-9		Lab ID: 92534169003		Collected: 04/19/21 17:10	Received: 04/20/21 10:50	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/22/21 12:16	04/22/21 21:19	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00056J	mg/L	0.0030	0.00028	1	04/22/21 12:12	04/29/21 15:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/22/21 12:12	04/29/21 15:38	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/22/21 12:12	04/29/21 15:38	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/22/21 12:12	04/29/21 15:38	7440-41-7		
Boron	0.026J	mg/L	0.040	0.0052	1	04/22/21 12:12	04/29/21 15:38	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/22/21 12:12	04/29/21 15:38	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/22/21 12:12	04/29/21 15:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/22/21 12:12	04/29/21 15:38	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/22/21 12:12	04/29/21 15:38	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/22/21 12:12	04/29/21 15:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/22/21 12:12	04/29/21 15:38	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/22/21 12:12	04/29/21 15:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/22/21 12:12	04/29/21 15:38	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:38	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/21/21 23:10			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/22/21 13:03	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/22/21 13:03	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/22/21 13:03	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BOWEN AP S/A
Pace Project No.: 92534169

Sample: EB-6		Lab ID: 92534169004		Collected: 04/19/21 17:56	Received: 04/20/21 10:50	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	04/22/21 12:16	04/22/21 21:33	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00033J	mg/L	0.0030	0.00028	1	04/22/21 12:12	04/29/21 15:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	04/22/21 12:12	04/29/21 15:44	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	04/22/21 12:12	04/29/21 15:44	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	04/22/21 12:12	04/29/21 15:44	7440-41-7		
Boron	0.015J	mg/L	0.040	0.0052	1	04/22/21 12:12	04/29/21 15:44	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	04/22/21 12:12	04/29/21 15:44	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	04/22/21 12:12	04/29/21 15:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	04/22/21 12:12	04/29/21 15:44	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	04/22/21 12:12	04/29/21 15:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	04/22/21 12:12	04/29/21 15:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	04/22/21 12:12	04/29/21 15:44	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	04/22/21 12:12	04/29/21 15:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	04/22/21 12:12	04/29/21 15:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	04/22/21 07:30	04/22/21 18:40	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		04/21/21 23:11			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/22/21 13:30	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		04/22/21 13:30	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		04/22/21 13:30	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP S/A

Pace Project No.: 92534169

QC Batch:	615498	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

METHOD BLANK: 3238985 Matrix: Water

Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	04/22/21 20:21	
Iron	mg/L	ND	0.040	0.016	04/22/21 20:21	
Magnesium	mg/L	ND	0.050	0.0076	04/22/21 20:21	
Manganese	mg/L	ND	0.040	0.0017	04/22/21 20:21	
Potassium	mg/L	ND	0.20	0.056	04/22/21 20:21	
Sodium	mg/L	ND	1.0	0.26	04/22/21 20:21	

LABORATORY CONTROL SAMPLE: 3238986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Manganese	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3238987 3238988

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Calcium	mg/L	1	7.7	1	8.5	79	80	75-125	0	20	
Iron	mg/L	1	0.051	1	1.1	102	103	75-125	1	20	
Magnesium	mg/L	1	1.4	1	2.4	97	97	75-125	0	20	
Manganese	mg/L	1	0.18	1	1.2	98	98	75-125	0	20	
Potassium	mg/L	1	1.5	1	2.5	98	103	75-125	2	20	
Sodium	mg/L	1	5.5	1	6.5	93	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: BOWEN AP S/A
Pace Project No.: 92534169

QC Batch: 615500 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

METHOD BLANK: 3239004 Matrix: Water
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	04/29/21 14:58	
Arsenic	mg/L	ND	0.0050	0.00078	04/29/21 14:58	
Barium	mg/L	ND	0.0050	0.00071	04/29/21 14:58	
Beryllium	mg/L	ND	0.00050	0.000046	04/29/21 14:58	
Boron	mg/L	ND	0.040	0.0052	04/29/21 14:58	
Cadmium	mg/L	ND	0.00050	0.00012	04/29/21 14:58	
Chromium	mg/L	ND	0.0050	0.00055	04/29/21 14:58	
Cobalt	mg/L	ND	0.0050	0.00038	04/29/21 14:58	
Lead	mg/L	ND	0.0010	0.000036	04/29/21 14:58	
Lithium	mg/L	ND	0.030	0.00081	04/29/21 14:58	
Molybdenum	mg/L	ND	0.010	0.00069	04/29/21 14:58	
Selenium	mg/L	ND	0.0050	0.0016	04/29/21 14:58	
Thallium	mg/L	ND	0.0010	0.00014	04/29/21 14:58	

LABORATORY CONTROL SAMPLE: 3239005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3239006 3239007

Parameter	Units	92534169001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	0.00039J	0.1	0.1	0.10	0.10	103	101	75-125	3	20	
Arsenic	mg/L	0.0023J	0.1	0.1	0.10	0.10	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: BOWEN AP S/A

Pace Project No.: 92534169

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3239006		3239007		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92534169001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.077	0.1	0.1	0.19	0.18	110	101	75-125	5	20		
Beryllium	mg/L	ND	0.1	0.1	0.095	0.097	94	97	75-125	2	20		
Boron	mg/L	7.8	1	1	9.2	8.8	139	104	75-125	4	20	M1	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Chromium	mg/L	0.00071J	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Cobalt	mg/L	0.00079J	0.1	0.1	0.099	0.099	98	98	75-125	0	20		
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.094	94	94	75-125	0	20		
Lithium	mg/L	0.0083J	0.1	0.1	0.11	0.11	99	98	75-125	1	20		
Molybdenum	mg/L	0.0067J	0.1	0.1	0.11	0.11	104	101	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP S/A
Pace Project No.: 92534169

QC Batch: 615195 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

METHOD BLANK: 3237403 Matrix: Water
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	04/22/21 17:46	

LABORATORY CONTROL SAMPLE: 3237404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3237405 3237406

Parameter	Units	92533808001		3237406		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: BOWEN AP S/A
Pace Project No.: 92534169

QC Batch: 615203 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

METHOD BLANK: 3237454 Matrix: Water
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/21/21 23:09	

LABORATORY CONTROL SAMPLE: 3237455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	90-111	

SAMPLE DUPLICATE: 3237456

Parameter	Units	92533757001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	137	148	8	10	

SAMPLE DUPLICATE: 3237457

Parameter	Units	92533251003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	222	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BOWEN AP S/A

Pace Project No.: 92534169

QC Batch: 617069

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92534169001, 92534169002

METHOD BLANK: 3246729

Matrix: Water

Associated Lab Samples: 92534169001, 92534169002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	5.0	5.0	04/29/21 15:36	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	5.0	5.0	04/29/21 15:36	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	5.0	5.0	04/29/21 15:36	

LABORATORY CONTROL SAMPLE: 3246730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	50	52.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3246731 3246732

Parameter	Units	92533944006		3246732		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO ₃	mg/L	13.6	50	50	65.7	65.3	104	104	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3246733 3246734

Parameter	Units	92533944009		3246734		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO ₃	mg/L	ND	50	50	54.3	54.1	105	105	80-120	0	25

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QUALITY CONTROL DATA

Project: BOWEN AP S/A

Pace Project No.: 92534169

QC Batch: 615383

Analysis Method: SM 4500-S2D-2011

QC Batch Method: SM 4500-S2D-2011

Analysis Description: 4500S2D Sulfide Water

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92534169001, 92534169002

METHOD BLANK: 3238566

Matrix: Water

Associated Lab Samples: 92534169001, 92534169002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	04/22/21 04:36	

LABORATORY CONTROL SAMPLE: 3238567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3238568 3238569

Parameter	Units	92533634003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfide	mg/L	ND	0.5	0.5	0.29	0.29	57	57	80-120	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3238570 3238571

Parameter	Units	92534090001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Sulfide	mg/L	ND	0.5	0.5	0.44	0.44	89	89	80-120	0	10	

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QUALITY CONTROL DATA

Project: BOWEN AP S/A
Pace Project No.: 92534169

QC Batch: 615330 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

METHOD BLANK: 3238320 Matrix: Water
Associated Lab Samples: 92534169001, 92534169002, 92534169003, 92534169004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/22/21 10:35	
Fluoride	mg/L	ND	0.10	0.050	04/22/21 10:35	
Sulfate	mg/L	ND	1.0	0.50	04/22/21 10:35	

LABORATORY CONTROL SAMPLE: 3238321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3238322 3238323

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92534213001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	73.0	50	50	50	110	112	74	79	90-110	2	10	M1
Fluoride	mg/L	2.8	2.5	2.5	2.5	4.7	4.7	73	73	90-110	0	10	M1
Sulfate	mg/L	58.7	50	50	50	97.9	99.2	78	81	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3238324 3238325

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92534169003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50	45.7	47.5	91	95	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	2.5	99	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50	50.3	50.6	100	100	90-110	1	10	

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

REPORT OF LABORATORY ANALYSIS

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

Project: BOWEN AP S/A

Pace Project No.: 92534169

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BOWEN AP S/A
Pace Project No.: 92534169

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92534169001	BGWC-49D				
92534169002	BGWC-50D				
92534169001	BGWC-49D	EPA 3010A	615498	EPA 6010D	615595
92534169002	BGWC-50D	EPA 3010A	615498	EPA 6010D	615595
92534169003	FB-9	EPA 3010A	615498	EPA 6010D	615595
92534169004	EB-6	EPA 3010A	615498	EPA 6010D	615595
92534169001	BGWC-49D	EPA 3005A	615500	EPA 6020B	615598
92534169002	BGWC-50D	EPA 3005A	615500	EPA 6020B	615598
92534169003	FB-9	EPA 3005A	615500	EPA 6020B	615598
92534169004	EB-6	EPA 3005A	615500	EPA 6020B	615598
92534169001	BGWC-49D	EPA 7470A	615195	EPA 7470A	615468
92534169002	BGWC-50D	EPA 7470A	615195	EPA 7470A	615468
92534169003	FB-9	EPA 7470A	615195	EPA 7470A	615468
92534169004	EB-6	EPA 7470A	615195	EPA 7470A	615468
92534169001	BGWC-49D	SM 2540C-2011	615203		
92534169002	BGWC-50D	SM 2540C-2011	615203		
92534169003	FB-9	SM 2540C-2011	615203		
92534169004	EB-6	SM 2540C-2011	615203		
92534169001	BGWC-49D	SM 2320B-2011	617069		
92534169002	BGWC-50D	SM 2320B-2011	617069		
92534169001	BGWC-49D	SM 4500-S2D-2011	615383		
92534169002	BGWC-50D	SM 4500-S2D-2011	615383		
92534169001	BGWC-49D	EPA 300.0 Rev 2.1 1993	615330		
92534169002	BGWC-50D	EPA 300.0 Rev 2.1 1993	615330		
92534169003	FB-9	EPA 300.0 Rev 2.1 1993	615330		
92534169004	EB-6	EPA 300.0 Rev 2.1 1993	615330		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

WO# : 92534169



Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 4/20/21
CP

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice:

Wet Blue None

Cooler Temp: 2.2

Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: October 23, 2010
Page 2 of 2

Document No:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92534169

PM: KLH1

Due Date: 05/04/21

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DPO/8015 (water) DOC, UHg

**Bottom half of box is to list number of bottles

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3S-250 mL plastic HNO3 (pH < 2)	BP2S-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	VG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Uhp (N/A)	DG9P-40 mL VOA H PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/TK (3 vials per kit)-VTH/Gas kit (N/A)	SP2T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (0, 2, 9, 7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Section A Required Client Information: Georgia Power - Coal Combustion Residuals
Section B Required Project Information: Report To: Kristen Jurinjo
Section C Invoice Information: Attention: Company Name: Address: Picoa Project Manager: Kevin.herring@pacelabs.com

Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Warner Road Atlanta, GA 30339
 Phone: (404)506-7239 Fax: (404)506-7239
 Email: krlurink@southernco.com
 Requested Due Date: Project #:
 Report To: Kristen Jurinjo
 Copy To: Geosynthetic Contacts
 Purchase Order #: Plant Bowen AP Non Routine
 Project Name: Project #:
 Attention: Company Name: Address: Picoa Project Manager: Kevin.herring@pacelabs.com
 Picoa Profile #: 315
 Requested Analysis Filtered (Y/N)
 Regulatory Agency: State / Location: GA

ITEM #	SAMPLE ID	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	Residual Chlorine (Y/N)	PH
				DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	BGWC-49D	Drinking Water Waste Water Product Sewer Other	DW WW P SL WP AR OT TS	4/19/21	1649		3	2										PH: 7.45
2	BGWC-50D			4/19/21	1137		3	2				1						PH: 7.54
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS
 RELINQUISHED BY / AFFILIATION: Will Locker / Resolute
 DATE: 4/20/21 TIME: 1050
 ACCEPTED BY / AFFILIATION: Bryan Williams / Picoa
 DATE: 4/20/21 TIME: 1054

SAMPLER NAME AND SIGNATURE
 FRONT Name of SAMPLER: Will Locker
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 4/19/21

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



Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2490 Marner Road
 Atlanta, GA 30339
 Email: KLUMIN@SOUTHERNCO.COM
 Phone: (404)506-7239 Fax
 Requested Due Date:

Section B
 Required Project Information:
 Report To: Kristen Juritko
 Copy To: Geosynthetic Contacts
 Purchase Order #:
 Project Name: Plant Bowen AP Semiannual
 Project #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Order Manager: kevin.herring@pacelabs.com
 Pace Project Manager: kevin.herring@pacelabs.com
 Pace Profile #: 315
 Regulatory Agency:
 State / Location: GA

Page : 4 Of 5

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH
					DATE	TIME			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
37	BGWC-49D				4/19/21	1649		5	2	3									PH: 7.45	
38	BGWC-50D				4/19/21	1137		5	2	3									PH: 7.54	
39	BGWC-64-																			
40	BGWC-62-																			
41	DUP-4-																			
42	DUP-2-																			
43	DUP-3-																			
44	DUP-4-																			
45	FB-1-																			
46	FB-2-																			
47	FB-3-																			
48	FB-4-																			

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Will Laker / Resolute
 DATE: 4/20/21
 TIME: 1050
 ACCEPTED BY / AFFILIATION: Kevin Williams / Pace
 DATE: 4/20/21
 TIME: 1515

SAMPLER NAME AND SIGNATURE: Will Laker Joe Booth, Kevin Stephenson
 PRINT Name of SAMPLER: Will Laker Joe Booth, Kevin Stephenson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 4/19/21

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



Section A
 Required Client Information:
 Company: Georgia Power - Coal Combustion Residuals
 Address: 2480 Manor Road
 Atlanta, GA 30339
 Phone: (404)506-7239 Fax: [Redacted]
 Email: kniunkn@southemco.com
 Requested Due Date: [Redacted]

Section B
 Required Project Information:
 Report To: Kristen Larkins
 Copy To: Geosynetic Contacts
 Project Name: Plant Power AP Semiannual
 Project #: [Redacted]

Section C
 Invoice Information:
 Attention: [Redacted]
 Company Name: [Redacted]
 Address: [Redacted]
 Place Order: [Redacted]
 Place Project Manager: Kevin.herring@paceelabs.com
 Place Profile #: 315
 Regulatory Agency: [Redacted]
 State / Location: GA

ITEM #	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
						START	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			
49	FB-5	Distilled Water	DW															
50	FB-6	Distilled Water	DW															
51	FB-7	Distilled Water	DW															
52	FB-8	Distilled Water	DW															
53	EB-2	Distilled Water	DW															
54	EB-3	Distilled Water	DW															
55	EB-4	Distilled Water	DW															
56	EB-6	Distilled Water	DW															
57																		
58																		
59																		
60																		

ADDITIONAL COMMENTS: [Redacted]

RELINQUISHED BY / AFFILIATION: Will Leaker / Regolute
 Date: 4/24/21 Time: 1050
 ACCEPTED BY / AFFILIATION: Byron Williams / Pace
 Date: 4/28/21 Time: 1650

SAMPLER NAME AND SIGNATURE: Will Leaker Joe Booth Kevin Stephenson
 DATE SIGNED: 4/19/21

TEMP in C: [Redacted]
 Received on Ice (Y/N): [Redacted]
 Custody Sealed Cooler (Y/N): [Redacted]
 Samples Intact (Y/N): [Redacted]

Data Validation Reports

Memorandum

Date: February 8, 2021
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92512098 and 92512103**

SITE: Plant Bowen AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three aqueous samples, one field duplicate, one field blank and one equipment blank, collected 15 December 2020, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States (US) Environmental Protection Agency (EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92512098001	BGWC-14A
92512098002	BGWA-47D
92512098003	BGWA-48D
92512098004	FBL121520
92512098005	EQBL121520
92512098006	DUP-1

Laboratory ID	Client ID
92512103001	BGWC-14A
92512103002	BGWA-47D
92512103003	BGWA-48D
92512103004	FBL121520
92512103005	EQBL121520
92512103006	DUP-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented for the field duplicate. The field duplicate was logged in with the collection time of 00:00.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 587757, 588640 and 589337). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Antimony, beryllium, boron and lead were detected in the method blank in batch 588640 at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Since beryllium was not detected in the associated samples, no qualifications were applied to the beryllium data. However, the estimated concentrations antimony, boron and lead in the associated samples were U qualified as not detected at the RLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWC-14A	Lead	0.000056	J B	0.000056	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWA-47D	Antimony	0.0018	J B	0.0030	U	3
BGWA-47D	Boron	0.031	J B	0.031	U	3
BGWA-47D	Lead	0.00008	J B	0.000080	U	3
BGWA-48D	Antimony	0.0018	J B	0.0030	U	3
BGWA-48D	Boron	0.034	J B	0.034	U	3
BGWA-48D	Lead	0.00011	J B	0.00011	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory indicating the analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample FBL121520. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL121520. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Antimony was detected in EQBL121520 at an estimated concentration greater than the MDL and less than the RL. Since the estimated concentrations in samples BGWA-47D and BGWA-48D were U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to samples BGWA-47D and BGWA-48D. However, the estimated concentration of antimony in sample DUP-1 was U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-1	Antimony	0.00047	J	0.0030	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

1.7 Field Blank

One field blank was collected with the sample set, FBL121520. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A, with the following exceptions.

Antimony was not detected in BGWC-14A and antimony was detected in DUP-1 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Since the estimated concentration of antimony in DUP-1 was U qualified due to equipment blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Lead was not detected in DUP-1 and lead was detected in BGWC-14A at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Since the estimated concentration of lead in BGWC-14A was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD
BGWC-14A	Antimony	0.00028	U	NC*
DUP-1	Antimony	0.00047	J	
BGWC-14A	Lead	0.000056	J B	NC*
DUP-1	Lead	0.000036	U	

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

B-laboratory indicating the analyte was detected in both the method blank and sample

NC-not calculable

*no qualifications, see explanation above

1.9 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 587972). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL121520. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, FBL121520. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 587413) and one method blank was reported for the anions (batch 588917). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS and one LCS was reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample BGWA-48D. The RPD result was within the laboratory specified acceptance criteria.

One batch laboratory duplicate was also reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EQBL121520. The wet chemistry parameters were not detected in the equipment blank above the MDL.

3.8 Field Blank

One field blank was collected with the sample set, FBL121520. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A, with the following exceptions.

Fluoride was not detected in DUP-1 and fluoride was detected in BGWC-14A at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Therefore, the fluoride concentration in BGWC-14A was J qualified as estimated and the non-detect fluoride result in DUP-1 was UJ qualified as estimated less than the MDL.

The RPD of TDS was greater than 20%; therefore, the TDS concentration in the field duplicate pair were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-14A	Fluoride	0.052	J	NC	0.052	J	7
DUP-1	Fluoride	0.05	U		0.050	UJ	7
BGWC-14A	TDS	876	NA	67	876	J	7
DUP-1	TDS	437	NA		437	J	7

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

3.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 428749). One method blank was reported for the radium-226 data (batch 429175). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One LCS/LCSD pair was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank was collected with the sample set, EQBL121520. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank was collected with the sample set, FBL121520. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision ($RER(1\sigma) < 3$) was demonstrated between the field duplicate and the original sample, BGWC-14A.

4.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

**Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville**

Project: Plant Bowen-CCR Ash Pond	Completed by: Kristoffer Henderson	Reviewed by:
Laboratory Name/Report ID: 92514909	Date: 01/12/2021	Date:

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
COC					
1. Was the project name listed?	x				
2. Were the client sample IDs listed?	x				
3. Were the sample matrices listed?	x				
4. Were the date & time of sample collection listed for each sample?	x				
5. Were the sample preservations noted?		x			No preservation issues were noted by the laboratory.
6. Were the analyses noted?	x				
7. Were the samples properly relinquished and received?	x				
Report Review					
1. Were sample receipt issues noted/described?	x				The samples were received at 12.9°C outside the sample receipt criteria. Since the samples were received the day of sample collection on ice and the cooling process had begun, no qualifications were applied to the data.
2. Was the date & time of lab receipt noted?	x				
3. Did the reported sample IDs match those listed on COC?	x				
4. Did the lab complete all requested analyses?	x				
5. Did all samples arrive in good condition at the laboratory?	x				
6. Was the sample login information complete and compared to the COC?	x				
7. Is the report narrative present and complete?		x			
8. Did the case narrative flag any issues not noted elsewhere?			x		
9. Did the EDD and the hard copy agree?	x				
Holding Time and Preservation					
1. Were the holding times met?	x				
2. Were the samples appropriately preserved?	x				
Data Review					
1. Were the correct compound lists reported?	x				

Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
2. Were all the compounds reported in the blanks and LCSs?	x				
3. Were the sample results consistently reported to the MDLs or RLs?	x				
4. Were the MDLs/RLs at or below the project required limits?			x		
5. Were the lab flags defined?	x				
6. Were the units correct?	x				
7. Were the times of analyses reported?	x				
8. Were the correct methods used?	x				
QC Review					
1. Were the surrogate recoveries within control limits?			x		
2. Were the analytes nondetect in the blanks (method, trip, field and equipment).		x			
3. Were the LCS recoveries within control limits?	x				
4. Were the LCS/LCSD RPDs within control limits?			x		
5. Were the MS/MSD recoveries within control limits?		x			<p>The recoveries of calcium and magnesium in the MS/MSD pair using sample EC-1.13 were low and outside the laboratory specified acceptance criteria. Since the calcium and magnesium concentrations in sample EC-1.13 were greater than four times the spiked concentrations, no qualifications were applied to the data.</p> <p>The recovery of fluoride in the MS/MSD pair using sample EC-1.61 were low and outside the laboratory specified acceptance criteria. Therefore, the non-detect fluoride result in sample EC-1.61 was UJ qualified as estimated less than the RL.</p>
6. Were the MS/MSD RPDs within control limits?	x				
7. Were the laboratory duplicate RPDs within control limits?			x		
8. Were the field duplicates within precision limits (RPD \leq 30% for aqueous; \leq 40% for soils)?			x		
9. Were the total concentrations greater than the dissolved concentrations or the RPD \leq 30%?			x		

Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
10. Is further validation required based on Stage 1 Validation?		x			

Comments: none

Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville

Definitions

%D – Percent Difference

COC – Chain of Custody

EDD – Electronic Data Deliverable

ID – Identification

LCS – Laboratory Control Sample

LCSD – Laboratory Control Sample Duplicate

MDL – Method detection limit

MS – Matrix Spike

MSD – Matrix Spike Duplicate

PQL – Project Quantitation Limit

QAPP - Quality assurance project plan

QC - Quality Control

RL – Reporting limit

RPD – Relative Percent Difference

**Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville**

Project: Plant Bowen-CCR Ash Pond	Completed by: Kristoffer Henderson	Reviewed by:
Laboratory Name/Report ID: 92514916	Date: 01/12/2021	Date:

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
COC					
1. Was the project name listed?	x				
2. Were the client sample IDs listed?	x				
3. Were the sample matrices listed?	x				
4. Were the date & time of sample collection listed for each sample?	x				
5. Were the sample preservations noted?	x				No preservation issues were noted by the laboratory.
6. Were the analyses noted?	x				
7. Were the samples properly relinquished and received?	x				
Report Review					
1. Were sample receipt issues noted/described?	x				The samples were received at 12.9°C outside the sample receipt criteria. Since the samples were received the day of sample collection on ice and the cooling process had begun, no qualifications were applied to the data.
2. Was the date & time of lab receipt noted?	x				
3. Did the reported sample IDs match those listed on COC?	x				
4. Did the lab complete all requested analyses?	x				
5. Did all samples arrive in good condition at the laboratory?	x				
6. Was the sample login information complete and compared to the COC?	x				
7. Is the report narrative present and complete?		x			
8. Did the case narrative flag any issues not noted elsewhere?			x		
9. Did the EDD and the hard copy agree?	x				
Holding Time and Preservation					
1. Were the holding times met?	x				
2. Were the samples appropriately preserved?	x				
Data Review					
1. Were the correct compound lists reported?	x				

Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
2. Were all the compounds reported in the blanks and LCSs?	x				
3. Were the sample results consistently reported to the MDLs or RLs?	x				
4. Were the MDLs/RLs at or below the project required limits?			x		
5. Were the lab flags defined?	x				
6. Were the units correct?	x				
7. Were the times of analyses reported?	x				
8. Were the correct methods used?	x				
QC Review					
1. Were the surrogate recoveries within control limits?			x		
2. Were the analytes nondetect in the blanks (method, trip, field and equipment).		x			
3. Were the LCS recoveries within control limits?	x				
4. Were the LCS/LCSD RPDs within control limits?			x		
5. Were the MS/MSD recoveries within control limits?	x				
6. Were the MS/MSD RPDs within control limits?	x				
7. Were the laboratory duplicate RPDs within control limits?			x		
8. Were the field duplicates within precision limits (RPD \leq 30% for aqueous; \leq 40% for soils)?			x		
9. Were the total concentrations greater than the dissolved concentrations or the RPD \leq 30%?			x		
10. Is further validation required based on Stage 1 Validation?		x			

Comments: none

**Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville**

Definitions

%D – Percent Difference

COC – Chain of Custody

EDD – Electronic Data Deliverable

ID – Identification

LCS – Laboratory Control Sample

LCSD – Laboratory Control Sample Duplicate

MDL – Method detection limit

MS – Matrix Spike

MSD – Matrix Spike Duplicate

PQL – Project Quantitation Limit

QAPP - Quality assurance project plan

QC - Quality Control

RL – Reporting limit

RPD – Relative Percent Difference

**Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville**

Project: Plant Bowen-CCR Ash Pond	Completed by: Kristoffer Henderson	Reviewed by:
Laboratory Name/Report ID: 92514921	Date: 01/12/2021	Date:

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
COC					
1. Was the project name listed?	x				
2. Were the client sample IDs listed?	x				
3. Were the sample matrices listed?	x				
4. Were the date & time of sample collection listed for each sample?	x				
5. Were the sample preservations noted?		x			No preservation issues were noted by the laboratory.
6. Were the analyses noted?	x				
7. Were the samples properly relinquished and received?	x				
Report Review					
1. Were sample receipt issues noted/described?	x				The samples were received at 12.9°C outside the sample receipt criteria. Since the samples were received the day of sample collection on ice and the cooling process had begun, no qualifications were applied to the data.
2. Was the date & time of lab receipt noted?	x				
3. Did the reported sample IDs match those listed on COC?	x				
4. Did the lab complete all requested analyses?	x				
5. Did all samples arrive in good condition at the laboratory?	x				
6. Was the sample login information complete and compared to the COC?	x				
7. Is the report narrative present and complete?		x			
8. Did the case narrative flag any issues not noted elsewhere?			x		
9. Did the EDD and the hard copy agree?	x				
Holding Time and Preservation					
1. Were the holding times met?	x				
2. Were the samples appropriately preserved?	x				
Data Review					
1. Were the correct compound lists reported?	x				

Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville

<i>Item</i>	<i>Y</i>	<i>N</i>	<i>NA</i>	<i>Reviewer</i>	<i>Comments</i>
2. Were all the compounds reported in the blanks and LCSs?	x				
3. Were the sample results consistently reported to the MDLs or RLs?	x				
4. Were the MDLs/RLs at or below the project required limits?			x		
5. Were the lab flags defined?	x				
6. Were the units correct?	x				
7. Were the times of analyses reported?	x				
8. Were the correct methods used?	x				
QC Review					
1. Were the surrogate recoveries within control limits?			x		
2. Were the analytes nondetect in the blanks (method, trip, field and equipment).		x			
3. Were the LCS recoveries within control limits?	x				
4. Were the LCS/LCSD RPDs within control limits?			x		
5. Were the MS/MSD recoveries within control limits?	x				
6. Were the MS/MSD RPDs within control limits?	x				
7. Were the laboratory duplicate RPDs within control limits?			x		
8. Were the field duplicates within precision limits (RPD \leq 30% for aqueous; \leq 40% for soils)?			x		
9. Were the total concentrations greater than the dissolved concentrations or the RPD \leq 30%?			x		
10. Is further validation required based on Stage 1 Validation?		x			

Comments: none

**Stage 1 Data Validation Checklist
Geosyntec Consultants, Knoxville**

Definitions

%D – Percent Difference

COC – Chain of Custody

EDD – Electronic Data Deliverable

ID – Identification

LCS – Laboratory Control Sample

LCSD – Laboratory Control Sample Duplicate

MDL – Method detection limit

MS – Matrix Spike

MSD – Matrix Spike Duplicate

PQL – Project Quantitation Limit

QAPP - Quality assurance project plan

QC - Quality Control

RL – Reporting limit

RPD – Relative Percent Difference

Memorandum

Date: March 31, 2021
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92517692 and 92517740**

SITE: Plant Bowen AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three aqueous samples, one field duplicate, one field blank and one equipment blank, collected 20 January 2021, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States (US) Environmental Protection Agency (EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92517692001	BGWC-14A
92517692002	BGWA-47D
92517692003	BGWA-48D
92517692004	FBL012021
92517692005	EQBL012021
92517692006	DUP-1

Laboratory ID	Client ID
92517740001	BGWC-14A
92517740002	BGWA-47D
92517740003	BGWA-48D
92517740004	FBL012021
92517740005	EQBL012021
92517740006	DUP-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented for the field duplicate. The field duplicate was logged in with the collection time of 00:00.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 596653 and 596887). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exception.

Antimony was detected in the method blank in batch 3147679 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony concentration in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWA-47D	Antimony	0.00068	J B	0.0030	U	3
BGWA-48D	Antimony	0.0015	J B	0.0030	U	3
DUP-1	Antimony	0.00029	J B	0.0030	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory indicating the analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported using samples BGWC-14A and BGWA-47D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recovery was high, and the MSD recovery was low, both outside of the laboratory specified acceptance criteria in the MS/MSD pair using sample BGWC-14A. Since the calcium concentration in sample BGWC-14A was greater than four times the spiked concentration, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL012021. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank was collected with the sample set, FBL012021. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A, with the following exception.

Antimony was not detected in BGWC-14A and was detected in DUP-01 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. However, since the antimony concentration in DUP-01 was U qualified due to method blank contamination and based on professional and technical judgment, no qualifications were applied to the data.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 594783). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample BGWC-14A. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL012021. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, FBL012021. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 594404) and two method blanks were reported for the anions (batches 594492 and 594878). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample EQBL012021. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of sulfate in the MS using sample EQBL012021 was high and outside of the laboratory specified acceptance criteria. Since sulfate was not detected in sample EQBL012021, no qualifications were applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS and one LCS was reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EQBL012021. The wet chemistry parameters were not detected in the equipment blank above the MDL.

3.8 Field Blank

One field blank was collected with the sample set, FBL012021. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-14A.

3.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 432561). One method blank was reported for the radium-226 data (batch 433326). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One LCS/LCSD pair was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of radium-228 in the LCS was low and outside of the laboratory specified acceptance criteria. Therefore, the radium-228 and combined radium 226+228 results in the associated samples that were less than the MDCs were UJ qualified as estimated less than the MDC, and the radium-228 concentration in the associated sample that was greater than the MDC was J qualified as estimated.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BGWC-14A	Radium-228	0.542	U	0.542	UJ	5
BGWC-14A	Combined Radium 226 + 228	0.701	U	0.701	UJ	5
BGWA-47D	Radium-228	0.292	U	0.292	UJ	5
BGWA-47D	Combined Radium 226 + 228	0.669	U	0.669	UJ	5
BGWA-48D	Radium-228	1.14	NA	1.14	J	5
BGWA-48D	Combined Radium 226 + 228	1.33	U	1.33	UJ	5
FBL012021	Radium-228	0.262	U	0.262	UJ	5
FBL012021	Combined Radium 226 + 228	0.375	U	0.375	UJ	5
EQBL012021	Radium-228	0.102	U	0.102	UJ	5
EQBL012021	Combined Radium 226 + 228	0.244	U	0.244	UJ	5
DUP-1	Radium-228	0.0443	U	0.0443	UJ	5
DUP-1	Combined Radium 226 + 228	0.364	U	0.364	UJ	5

pCi/L-picocuries per liter

U-not detected at or above the MDC

NA-not applicable

4.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank was collected with the sample set, EQBL012021. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank was collected with the sample set, FBL012021. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, BGWC-14A.

4.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: March 31, 2021
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92519074 and 92519078**

SITE: Plant Bowen AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two aqueous samples, one field duplicate, one field blank and one equipment blank, collected 28 January 2021, as part of the Plant Bowen AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States (US) Environmental Protection Agency (EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92519074001	BGWC-51
92519074002	BGWC-52
92519074003	DUP-1
92519074004	FBL012821
92519074005	EQBL012821

Laboratory ID	Client ID
92519078001	BGWC-51
92519078002	BGWC-52
92519078003	DUP-1
92519078004	FBL012821
92519078005	EQBL012821

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented for the field duplicate. The field duplicate was logged in with the collection time of 00:00.

The relinquished and received by signatures, dates and times were not documented on the chain of custody (COC) included in laboratory report 92519078.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 596683 and 596788). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exception.

Antimony was detected in the method blank in batch 596788 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony concentration in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWC-52	Antimony	0.0019	J B	0.0030	U	3
DUP-1	Antimony	0.00067	J B	0.0030	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory indicating the analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample BGWC-51. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of boron in the MSD was low and outside of the laboratory specified acceptance criteria. Since the boron concentration in sample BGWC-51 was greater than four times the spiked concentration, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL012821. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Boron and chromium were detected in EQBL012821 at estimated concentrations greater than the MDLs and less than the RLs. Since the boron concentration in EQBL012821 was U qualified due to field blank contamination, chromium was not detected in the associated samples, and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, FBL012821. Metals were not detected in the field blank above the MDLs, with the following exception.

Boron was detected in FBL012821 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated boron concentration in EQBL012821 was U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EQBL012821	Boron	0.0052	J	0.10	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-52, with the following exception.

Arsenic was detected in BGWC-52 at an estimated concentration greater than the MDL and less than the RL and was not detected in DUP-1, resulting in a noncalculable RPD. Therefore, the arsenic concentration in BGWC-52 was J qualified as estimated and the non-detect arsenic result in DUP-1 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-52	Arsenic	0.00099	J	NC	0.00099	J	7
DUP-1	Arsenic	0.00078	U		0.00078	UJ	7

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

NC-not calculable

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 596026). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EQBL012821.

Mercury was detected in EQBL012821 at an estimated concentration greater than the MDL and less than the RL. Since the mercury concentration in EQBL012821 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

2.7 Field Blank

One field blank was collected with the sample set, FBL012821.

Mercury was detected in FBL012821 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated mercury concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-52	Mercury	0.00019	J	0.00050	U	3
DUP-1	Mercury	0.00018	J	0.00050	U	3
EQBL012821	Mercury	0.00015	J	0.00050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD ≤ 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, BGWC-52.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 596261) and one method blank was reported for the anions (batch 596400). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS and one LCS was reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One batch laboratory duplicate was reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EQBL012821. The wet chemistry parameters were not detected in the equipment blank above the MDL.

3.8 Field Blank

One field blank was collected with the sample set, FBL012821. The wet chemistry parameters were not detected in the field blank above the MDL with the following exceptions.

Chloride (27.1 mg/L) and sulfate (19.3 mg/L) were detected in FBL012821 at concentrations greater than the RL. Since the chloride and sulfate concentrations in the associated samples were greater than ten times the field blank concentrations, no qualifications were applied to the data.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, BGWC-52, with the following exception.

Fluoride was detected in BGWC-52 at a concentration greater than the RL and was detected in DUP-1 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Therefore, the fluoride concentrations in the field duplicate pair were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-52	Fluoride	0.10	NA	NC	0.10	J	7
DUP-1	Fluoride	0.081	J		0.081	J	7

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

NC-not calculable

3.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 433216). One method blank was reported for the radium-226 data (batch 433327). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One

LCS/LCSD pair was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank was collected with the sample set, EQBL012821. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank was collected with the sample set, FBL012821. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, BGWC-52.

4.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: April 16, 2021
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92529119**

SITE: Plant Bowen AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two aqueous samples, one field blank and one equipment blank, collected 23 February 2021, as part of the Plant Bowen AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3010A/6010D
- Boron by USEPA Methods 3005A/6020B
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical tests:

- Alkalinity by Standard Method 2320B
- Sulfide by Standard Method 4500-S2D
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92523272010	BGWC-51
92523272011	BGWC-52

Laboratory ID	Client ID
92523272012	FBL022321
92523272013	EQBL022321

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The samples were also reported in laboratory report 92526941. Per the client, the analyses reported in laboratory report 92529119 were an additional request.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate

- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 603215 and 603526). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was submitted with the sample set, EQBL022321. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Iron was detected in the equipment blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the iron concentration in the equipment blank was U qualified due to field blank contamination, and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank was submitted with the sample set, FBL022321. Metals were not detected in the field blank above the MDLs, with the following exception.

Iron (0.058 mg/L) was detected in the field blank at a concentration greater than the RL. Therefore, based on professional and technical judgment the iron concentration in sample BGWC-51 was J+ qualified as estimated with high bias, and the estimated iron concentration in EQB022321 was U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWC-51	Iron	0.15	NA	0.15	J+	3
EQBL022321	Iron	0.026	J	0.040	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

Field duplicates were not submitted with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C, alkalinity by Standard method 2320B, sulfide by Standard method 4500 S2D and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 602703), one method blank was reported for alkalinity (batch 604532), one method blank was reported for sulfide (batch 603512) and one method blank was reported for the anions (batch 603111). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs for alkalinity, two batch MS/MSD pairs for sulfide and two batch MS/MSD pairs for the anions were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS, one LCS was reported for alkalinity, one LCS was reported for sulfide and one LCS was reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One batch laboratory duplicate was reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.7 Equipment Blank

One equipment blank was submitted with the sample set, EQBL022321. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

2.8 Field Blank

One field blank was submitted with the sample set, FBL022321. The wet chemistry parameters were not detected in the field blank above the MDLs.

2.9 Field Duplicate

Field duplicates were not submitted with the sample set.

2.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

2.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: May 17, 2021
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92523254 Revision 2 and 92526941**

SITE: Plant Bowen AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-eight aqueous samples, four field duplicates, eight field blanks and seven equipment blanks collected 16 February – March 9, 2021, as part of the Plant Bowen AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Fluoride by USEPA Method 300.0

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92523254001	BGWA-47D
92523254002	BGWA-48D
92523254003	BGWC-9
92523254004	FBL021721
92523254005	EQBL021721
92523254006	DUP-1
92523254007	FBL021621
92523254008	BGWC-17
92523254009	BGWC-18
92523254010	BGWC-19
92523254011	BGWC-20
92523254012	BGWA-6
92523254013	BGWC-44D
92523254014	DUP-2
92523254015	FBL021821
92523254016	EQBL021821
92523254017	BGWC-21
92523254018	BGWC-22
92523254019	BGWC-23
92523254020	BGWC-24
92523254021	BGWC-34D
92523254022	FBL021921
92523254023	EQBL021921
92523254024	BGWC-25
92523254025	BGWC-32

Laboratory ID	Client ID
92523254026	DUP-4
92523254027	FBL022321
92523254028	EQBL022321
92523254029	BGWC-51
92523254030	BGWC-52
92523254031	BGWC-35D
92523254032	BGWC-37D
92523254033	BGWC-39
92523254034	BGWC-40
92523254035	BGWC-41D
92523254036	BGWC-42D
92523254037	BGWC-31
92523254038	DUP-3
92523254039	FBL022221
92523254040	EQBL022221
92523249001	BGWA-2
92523249002	BGWA-29
92523249003	BGWC-8
92523249004	BGWA-33
92523249005	BGWC-12
92523249006	BGWC-7
92523249007	BGWC-10
92523249008	BGWC-14A
92523249009	BGWC-16
92526935001	FBL030821

Laboratory ID	Client ID
92526935002	EQBL030821
92526935003	BGWC-36D
92526935004	BGWC-43D
92526935005	BGWC-30
92526935006	BGWC-38D
92526935007	FBL030921
92526935008	EQBL030921
92526941001	FBL030821
92526941002	EQBL030821
92526941003	BGWC-36D
92526941004	BGWC-43D
92526941005	BGWC-30
92526941006	BGWC-38D
92526941007	FBL030921
92526941008	EQBL030921
92523272001	BGWA-2
92523272002	BGWA-29
92523272003	BGWC-8
92523272004	BGWA-33
92523272005	BGWC-12
92523272006	BGWC-7
92523272007	BGWC-10
92523272008	BGWC-14A
92523272009	BGWC-16
92523277001	BGWA-47D
92523277002	BGWA-48D
92523277003	BGWC-9
92523277004	FBL021721
92523277005	EQBL021721
92523277006	DUP-1
92523277007	FBL021621
92523277008	BGWC-17

Laboratory ID	Client ID
92523277009	BGWC-18
92523277010	BGWC-19
92523277011	BGWC-20
92523277012	BGWA-6
92523277013	BGWC-44D
92523277014	DUP-2
92523277015	FBL021821
92523277016	EQBL021821
92523277017	BGWC-21
92523277018	BGWC-22
92523277019	BGWC-23
92523277020	BGWC-24
92523277021	BGWC-34D
92523277022	FBL021921
92523277023	EQBL021921
92523277024	BGWC-25
92523277025	BGWC-32
92523277026	DUP-4
92523277027	FBL022321
92523277028	EQBL022321
92523277029	BGWC-51
92523277030	BGWC-52
92523277031	BGWC-35D
92523277032	BGWC-37D
92523277033	BGWC-39
92523277034	BGWC-40
92523277035	BGWC-41D
92523277036	BGWC-42D
92523277037	BGWC-31
92523277038	DUP-3
92523277039	FBL022221
92523277040	EQBL022221

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The following issues were noted on the chain of custody (COC). No qualifications were applied based on these issues.

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- Collection times were not documented on the COC for the field duplicates, DUP-1, DUP-2, DUP-3 and DUP-4. The field duplicates were logged in with the collection time of 00:00.

- There were time discrepancies for the sample transfers on pages 1-3 of the COC. The relinquished by time was documented as 3/10/21 0848 and the received by time was documented as 3/10/21 0847.
- There were time discrepancies for the sample transfers on pages 4-6 of the COC. The first relinquished by time was documented as 3/10/21 0848 and the received by time was documented as 3/10/21 0951. The second relinquished by time was documented as 3/10/21 1423 and the received by time was documented as 3/10/21 1426.
- The received by date and time were not documented for the final transfer on page 11 of the COC.
- There were time discrepancies for sample transfers on pages 19-21 of the COC. The relinquished by time was documented as 3/25/21 0930 and the received by time was documented as 3/25/21 0937.
- There were time discrepancies for the sample transfers on pages 22-24 of the COC. The first relinquished by time was documented as 3/25/21 0930 and the received by time was documented as 3/25/21 0937. The second relinquished by time was documented as 3/25/21 1339 and the received by time was documented as 3/25/21 1336.

Laboratory report 92523254 was revised on April 29, 2021 to delete duplicate samples. The revised report was identified as 92523254 Revision 1. The laboratory report was revised a second time on May 7, 2021 to cancel samples reported in laboratory report 30407322 and replace samples reported in error. The revised report was identified as 92523254 Revision 2.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank

- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 602214, 602560, 603526 and 607964). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported using samples BGWA-47D, BGWA-2, BGWC-25 and FBL030821. The recovery and relative percent difference (RPD) and results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Seven equipment blanks were collected with the sample set, EQBL021721, EQBL021821, EQBL021921, EQBL022321, EQBL022221, EQBL030821 and EQBL030921. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Barium was detected in EQBL021721, EQBL021821 and EQBL021921 at estimated concentrations greater than the MDL and less than the reporting limit (RL). Since the barium concentrations in EQBL021721, EQBL021821 and EQBL021921 were U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Antimony was detected in EQBL030821 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated antimony concentrations in the associated samples were U qualified as not detected at the RL.

Lead was detected in EQBL030921 at an estimated concentration greater than the MDL and less than the RL. Since lead was not detected in the associated sample, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWC-36D	Antimony	0.00096	J	0.0030	U	3
BGWC-43D	Antimony	0.00058	J	0.0030	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.7 Field Blank

Eight field blanks were collected with the sample set, FBL021721, FBL021621, FBL021821, FBL021921, FBL022321, FBL022221, FBL030821 and FBL030921. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Barium was detected in FBL021721, FBL021621, FBL021821, FBL021921 and FBL022221 at estimated concentrations greater than the MDL and less than the RL. Therefore, the estimated barium concentrations in the associated samples were U qualified as not detected at the RL.

Antimony was detected in FBL021721 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated antimony concentrations in the associated samples were U qualified as not detected at the RL.

Chromium was detected in FBL030821 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated chromium concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EQBL021721	Barium	0.0022	J	0.0050	U	3
EQBL021821	Barium	0.0021	J	0.0050	U	3
EQBL021921	Barium	0.0020	J	0.0050	U	3
BGWA-47D	Antimony	0.0013	J	0.0030	U	3
BGWA-48D	Antimony	0.0013	J	0.0030	U	3
BGWC-9	Antimony	0.00075	J	0.0030	U	3
BGWC-36D	Chromium	0.00057	J	0.0050	U	3
BGWC-30	Chromium	0.0011	J	0.0050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

1.8 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, BGWC-8, BGWC-14A, BGWC-42D and BGWC-25, respectively, with the following exceptions.

Antimony was detected in BGWC-8 at an estimated concentration greater than the MDL and less than the RL and was not detected in DUP-1, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment the antimony concentration in BGWC-8 was J qualified as estimated and the non-detect antimony result in DUP-1 was UJ qualified as estimated less than the MDL.

Arsenic was not detected in BGWC-8 and was detected at an estimated concentration greater than the MDL and less than the RL in DUP-1, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment the non-detect arsenic result in BGWC-8 was UJ qualified as estimated less than the MDL and the arsenic concentration in DUP-1 was J qualified as estimated.

Arsenic was not detected in BGWC-14A and was detected at an estimated concentration greater than the MDL and less than the RL in DUP-2, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment the non-detect arsenic result in BGWC-14A was UJ qualified as estimated less than the MDL and the arsenic concentration in DUP-2 was J qualified as estimated.

Chromium was detected in BGWC-14A at a concentration greater than the RL and was not detected in DUP-2, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment the chromium concentration in BGWC-14A was J qualified as estimated and the non-detect chromium result in DUP-2 was UJ qualified as estimated less than the MDL.

Chromium was detected in BGWC-42D at an estimated concentration greater than the MDL and less than the RL and was not detected in DUP-3, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment the chromium concentration in BGWC-42D was J qualified as estimated and the non-detect chromium result in DUP-3 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-8	Antimony	0.00046	J	NC	0.00046	J	7
DUP-1	Antimony	0.00028	U		0.00028	UJ	7
BGWC-8	Arsenic	0.00078	U	NC	0.00078	UJ	7
DUP-1	Arsenic	0.00091	J		0.00091	J	7
BGWC-14A	Arsenic	0.00078	U	NC	0.00078	UJ	7
DUP-2	Arsenic	0.0012	J		0.0012	J	7
BGWC-14A	Chromium	0.026	NA	NC	0.026	J	7
DUP-2	Chromium	0.00055	U		0.00055	UJ	7
BGWC-42D	Chromium	0.0011	J	NC	0.0011	J	7
DUP-3	Chromium	0.00055	U		0.00055	UJ	7

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 601883, 602268, 602886, 603897, 606880 and 607630). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported using samples BGWC-20, BGWC-39 and BGWC-30. The recovery and RPD results were within the laboratory specified acceptance criteria.

Three batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Seven equipment blanks were collected with the sample set, EQBL021721, EQBL021821, EQBL021921, EQBL022321, EQBL022221, EQBL030821 and EQBL030921. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Eight field blanks were collected with the sample set, FBL021721, FBL021621, FBL021821, FBL021921, FBL022321, FBL022221, FBL030821 and FBL030921. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, BGWC-8, BGWC-14A, BGWC-42D and BGWC-25, respectively.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 FLUORIDE

The samples were analyzed for fluoride by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The fluoride data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the fluoride analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight method blanks were reported (batches 601823, 601824, 601825, 602932, 603111, 603536, 606814 and 606815). Fluoride was not detected in the method blanks above the MDL.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six sample set specific MS/MSD pairs were reported using samples BGWA-2, BGWA-47D, BGWC-20, BGWC-34D, FBL022221 and BGWC-43D. The recovery and RPD results were within the laboratory specified acceptance criteria.

Ten batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Equipment Blank

Seven equipment blanks were collected with the sample set, EQBL021721, EQBL021821, EQBL021921, EQBL022321, EQBL022221, EQBL030821 and EQBL030921. Fluoride was not detected in the equipment blanks above the MDL.

3.7 Field Blank

Eight field blanks were collected with the sample set, FBL021721, FBL021621, FBL021821, FBL021921, FBL022321, FBL022221, FBL030821 and FBL030921. Fluoride was not detected in the field blanks above the MDL.

3.8 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, BGWC-8, BGWC-14A, BGWC-42D and BGWC-25, respectively.

3.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

3.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for the radium-228 data (batches 436983, 436814, 439298, 436161 and 436492). Five method blanks were reported for the radium-226 data (batches 436822, 436494, 436162, 439300 and 436984). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate

One batch MS/MSD pair was reported for radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and four LCS/LCS duplicate (LCSD) pairs were reported for radium-226. One LCS and four LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported using samples BGWC-24, BGWC-9, FBL021721 and FBL030821. The RER (1σ) results were within the laboratory specified acceptance criteria.

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

Seven equipment blanks were collected with the sample set, EQBL021721, EQBL021821, EQBL021921, EQBL022321, EQBL022221, EQBL030821 and EQBL030921. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs, with the following exceptions.

Radium-226 was detected in EQBL030921 at a concentration greater than the MDC. Therefore, the radium-226 and total radium concentrations in the associated sample were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
BGWC-38D	Radium-226	1.57	NA	1.57	J+	3
BGWC-38D	Combined Radium 226 + 228	3.34	NA	3.34	J+	3

pCi/L-picocuries per liter

NA-not applicable

4.9 Field Blank

Eight field blanks were collected with the sample set, FBL021721, FBL021621, FBL021821, FBL021921, FBL022321, FBL022221, FBL030821 and FBL030921. Radium-226 and Radium-228 were not detected in the field blanks above the MDLs.

4.10 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RER (1\sigma) < 3$) was demonstrated between the field duplicates and the original samples, BGWC-8, BGWC-14A, BGWC-42D and BGWC-25, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 17, 2021
To: Whitney Law
From: Kristoffer Henderson
Linda Scharpenberg
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92529896, 92529897, 92534163 and 92534169**

SITE: Plant Bowen AP Semiannual

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of forty aqueous samples, four field duplicate samples, nine field blanks and six equipment blanks, collected March 23-26, 2021; March 29 - April 1, 2021 and April 19, 2021 as part of the Bowen AP Semiannual sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C-2011

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Alkalinity by Standard Method 2320B-2011
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 Rev 2.1 1993
- Sulfide by Standard Method 4500-S2D-2011

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives, with the following exception.

The non-detect result for TDS in sample FB-1 was R qualified as rejected due to the analysis being performed outside of the holding time. The remaining qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 540-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92529896001	BGWA-29
92529896002	DUP-1
92529896003	FB-1
92529896004	BGWC-8
92529896005	BGWC-9
92529896006	BGWC-12
92529896007	BGWC-14A
92529896008	BGWC-16
92529896009	BGWC-17
92529896010	BGWC-18
92529896011	FB-2
92529896012	BGWA-47D
92529896013	BGWA-48D
92529896014	BGWC-30
92529896015	BGWC-36D

Laboratory ID	Client ID
92529896016	FB-3
92529896017	EB-1
92529896018	BGWA-2
92529896019	BGWC-19
92529896020	BGWC-23
92529896021	BGWC-24
92529896022	BGWC-25
92529896023	BGWC-35D
92529896024	BGWC-37D
92529896025	DUP-2
92529896026	FB-4
92529896027	BGWC-20
92529896028	BGWC-21
92529896029	BGWC-22
92529896030	BGWC-31

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Laboratory ID	Client ID
92529896031	BGWC-38D
92529896032	BGWC-43D
92529896033	FB-5
92529896034	EB-2
92529896035	BGWC-7
92529896036	BGWC-10
92529896037	BGWC-32
92529896038	BGWC-34D
92529896039	BGWC-40
92529896040	BGWC-51
92529896041	BGWC-52
92529896042	DUP-3
92529896043	FB-6
92529896044	EB-3
92529896045	BGWA-33
92529896046	BGWC-42D
92529896047	EB-5
92529896048	FB-8
92529896049	BGWA-6
92529896050	BGWC-39
92529896051	BGWC-41D
92529896052	BGWC-44D
92529896053	DUP-4
92529896054	FB-7
92529896055	EB-4
92529897001	BGWA-29
92529897002	DUP-1
92529897003	FB-1
92529897004	BGWC-8
92529897005	BGWC-9
92529897006	BGWC-12
92529897007	BGWC-14A
92529897008	BGWC-16
92529897009	BGWC-17
92529897010	BGWC-18
92529897011	FB-2
92529897012	BGWA-47D
92529897013	BGWA-48D
92529897014	BGWC-30
92529897015	BGWC-36D
92529897016	FB-3
92529897017	EB-1
92529897018	BGWA-2
92529897019	BGWC-19

Laboratory ID	Client ID
92529897020	BGWC-23
92529897021	BGWC-24
92529897022	BGWC-25
92529897023	BGWC-35D
92529897024	BGWC-37D
92529897025	DUP-2
92529897026	FB-4
92529897027	BGWC-20
92529897028	BGWC-21
92529897029	BGWC-22
92529897030	BGWC-31
92529897031	BGWC-38D
92529897032	BGWC-43D
92529897033	FB-5
92529897034	EB-2
92529897035	BGWC-7
92529897036	BGWC-10
92529897037	BGWC-32
92529897038	BGWC-34D
92529897039	BGWC-40
92529897040	BGWC-51
92529897041	BGWC-52
92529897042	DUP-3
92529897043	FB-6
92529897044	EB-3
92529897045	BGWA-33
92529897046	BGWC-42D
92529897047	EB-5
92529897048	FB-8
92529897049	BGWA-6
92529897050	BGWC-39
92529897051	BGWC-41D
92529897052	BGWC-44D
92529897053	DUP-4
92529897054	FB-7
92529897055	EB-4
92534163001	BGWC-49D
92534163002	BGWC-50D
92534163003	FB-9
92534163004	EB-6
92534169001	BGWC-49D
92534169002	BGWC-50D
92534169003	FB-9
92534169004	EB-6

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The following issues were noted for the chain of custody (COC) forms:

- 92529896 and 92529897: Sample collection times were not noted for the four field duplicate samples. The field duplicate samples were logged in with a sample collection time of 00:00.
- 92529896 and 92529897: There were time discrepancies for the sample transfers on pages 15-21. The first sample relinquishing was documented as 03/31/21, 09:36 and the first sample receiving was documented as 3/31/21 at 09:38.
- 92529896 and 92529897: The relinquished by time was not documented for the first sample transfer on page 16 of the COC.
- Incorrect error corrections were observed on the COCs, instead of the proper procedure of a single strike through, correction and initials and date of person making the corrections.

The field pH data included in the laboratory reports were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Field Blank
- ⊗ Equipment Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the total metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight method blanks were reported (batches 611093, 611682, 611684, 611110, 611685, 611686, 615498 and 615500). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exception.

Antimony was detected in the method blank in batch 611686 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
BGWC-34D	Antimony	0.00079	J B	0.0030	U	3
BGWC-40	Antimony	0.00050	J B	0.0030	U	3
BGWC-51	Antimony	0.0019	J B	0.0030	U	3
BGWC-52	Antimony	0.00085	J B	0.0030	U	3
DUP-3	Antimony	0.00057	J B	0.0030	U	3
FB-6	Antimony	0.00047	J B	0.0030	U	3
BGWA-33	Antimony	0.0020	J B	0.0030	U	3
BGWC-42D	Antimony	0.0019	J B	0.0030	U	3
BGWC-44D	Antimony	0.0026	J B	0.0030	U	3
DUP-4	Antimony	0.0025	J B	0.0030	U	3

mg/L -milligram per liter

J – laboratory flag indicating estimated concentration greater than the MDL and less than the RL

B -laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

** Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven sample set specific MS/MSD pairs were reported for metals using samples BGWA-29, DUP-1, BGWA2, BGWC-19, BGWC-34D, BGWC-40 and BGWC-49D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of calcium in the MS/MSD pairs using samples BGWA-29 and BGWA-2 were low and outside of the laboratory specified acceptance criteria and the recoveries of calcium in the MS/MSD pair using sample BGWC-34D were high and outside of the laboratory specified acceptance criteria. Since the calcium concentrations in samples BGWA-29, BGWA-2 and BGWC-34D were greater than four times the spiked concentrations, no qualifications were applied to the data.

The recovery of boron in the MS using sample BGWC-49D was high and outside of the laboratory specified acceptance criteria. Since the boron concentration in sample BGWC-49D was greater than four times the spiked concentration, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Blank

Nine field blanks were collected with the sample sets, FB-1, FB-2, FB-3, FB-4, FB-5, FB-6, FB-7, FB-8 and FB-9. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Antimony and boron were detected in FB-9 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated antimony and boron concentrations in the associated samples were U qualified as not detected at the RLs.

Antimony and arsenic were detected in FB-1 at estimated concentrations greater than the MDLs and less than the RLs. Since antimony was not detected in the associated samples, no qualifications were applied to the arsenic data. However, the estimated arsenic concentration in the associated sample was U qualified as not detected at the RL.

Arsenic was detected in FB-2 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated arsenic concentrations in the associated samples were U qualified as not detected at the RLs.

Arsenic and boron were detected in FB-3 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated arsenic and boron concentrations in the associated samples were U qualified as not detected at the RLs.

Boron was detected in FB-4 and FB-5 at estimated concentrations greater than the MDL and less than the RL. Therefore, the estimated boron concentrations in the associated samples were U qualified as not detected at the RLs.

Antimony was detected in FB-6 at an estimated concentration greater than the MDL and less than the RL. Since the antimony concentration in FB-6 was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Chromium was detected in FB-7 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated chromium concentrations in the associated samples were U qualified as not detected at the RLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result	Validation Qualifier	Reason Code
BGWC-49D	Antimony	0.00039	J	0.0030	U	3
BGWC-50D	Antimony	0.0019	J	0.0030	U	3
EB-6	Antimony	0.00033	J	0.0030	U	3
EB-6	Boron	0.015	J	0.040	U	3
DUP-1	Arsenic	0.0011	J	0.0050	U	3
BGWC-8	Arsenic	0.0012	J	0.0050	U	3
BGWC-9	Arsenic	0.0025	J	0.0050	U	3
BGWC-12	Arsenic	0.0020	J	0.0050	U	3
BGWC-14A	Arsenic	0.0020	J	0.0050	U	3
BGWC-16	Arsenic	0.0013	J	0.0050	U	3
BGWC-17	Arsenic	0.0017	J	0.0050	U	3
BGWC-18	Arsenic	0.0014	J	0.0050	U	3
BGWA-47D	Arsenic	0.0014	J	0.0050	U	3
BGWA-47D	Boron	0.017	J	0.040	U	3
BGWA-48D	Arsenic	0.0042	J	0.0050	U	3
BGWA-48D	Boron	0.026	J	0.040	U	3
BGWC-30	Arsenic	0.0015	J	0.0050	U	3
BGWC-36D	Arsenic	0.0021	J	0.0050	U	3
EB-1	Arsenic	0.00089	J	0.0050	U	3
BGWA-2	Boron	0.0094	J	0.040	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result	Validation Qualifier	Reason Code
BGWC-21	Boron	0.038	J	0.040	U	3
EB-2	Boron	0.0083	J	0.040	U	3
BGWC-41D	Chromium	0.00068	J	0.0050	U	3
BGWC-44D	Chromium	0.00094	J	0.0050	U	3
EB-4	Chromium	0.00067	J	0.0050	U	3

mg/L -milligram per liter

J -estimated concentration greater than the MDL and less than the RL

1.7 Equipment Blank

Six equipment blanks were collected with the sample sets, EB-1, EB-2, EB-3, EB-4, EB-5 and EB-6. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Antimony and boron were detected in EB-6 at estimated concentrations greater than the MDLs and less than the RLs. Since the antimony and boron concentrations in EB-6 were U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Arsenic and chromium were detected in EB-1 at estimated concentrations greater than the MDLs and less than the RLs. Since the arsenic concentration in EB-1 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the arsenic data. However, the estimated chromium concentrations in the associated samples were U qualified as not detected at the RL.

Boron was detected in EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the boron concentration in EB-2 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Boron and chromium were detected in EB-5 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated boron and chromium concentrations in the associated samples were U qualified as not detected at the RLs.

Chromium was detected in EB-4 at an estimated concentration greater than the MDL and less than the RL. Since the chromium concentration in EB-4 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-30	Chromium	0.00082	J	0.0050	U	3
BGWC-36D	Chromium	0.00057	J	0.0050	U	3
BGWA-33	Chromium	0.00076	J	0.0050	U	3
BGWC-42D	Chromium	0.00062	J	0.0050	U	3
BGWA-33	Boron	0.0069	J	0.040	U	3

mg/L- milligram per liter

J -estimated concentration greater than the MDL and less than the RL

1.8 Field Duplicate

Four field duplicate samples were collected with the sample sets, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, BGWA-29, BGWC-24, BGWC-40 and BGWC-44D, respectively, with the following exceptions.

Arsenic was detected in DUP-1 at an estimated concentration greater than the MDL and less than the RL and was not detected in BGWA-29, resulting in a noncalculable RPD. However, since the arsenic concentration in DUP-1 was U qualified at the RL due to field blank contamination, no additional qualifications were applied to the data, based on professional and technical judgment.

Chromium was detected in BGWC-44D at an estimated concentration greater than the MDL and less than the RL and was not detected in DUP-4, resulting in a noncalculable RPD. However, since the chromium concentration in BGWC-44D was U qualified at the RL due to field blank contamination, no additional qualifications were applied to the data, based on professional and technical judgment.

Lead was detected in DUP-4 at an estimated concentration greater than the MDL and less than the RL and was not detected in BGWC-44D, resulting in a noncalculable RPD. Therefore, the lead concentration in DUP-4 was J qualified as estimated and the non-detect lead result in BGWC-44D was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-44D	Lead	0.000036	U	NC	0.000036	UJ	7
DUP-4	Lead	0.000045	J		0.000045	J	7

mg/L -milligrams per liter

J -laboratory flag indicating estimated concentration greater than the MDL and less than the RL

U-laboratory flag indicating not detected at or above the MDL

NC -not calculated

1.9 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were reported for samples BGWC-23, BGWC-24, DUP-2, BGWC-22 and BGWC-51 due to the dilutions analyzed.

1.10 Electronic Data Deliverables (EDDs) Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (Batches 610453, 611728, 612453, 613664, 614849 and 615195). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported for mercury using samples BGWC-17, BGWC-25 and BGWC-40. The recovery and RPD results were within the laboratory specified acceptance criteria,

Three batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Field Blank

Nine field blanks were collected with the sample set, FB-1, FB-2, FB-3, FB-4, FB-5, FB-6, FB-7, FB-8 and FB-9. Mercury was not detected in the field blanks above the MDL.

2.7 Equipment Blank

Six equipment blanks were collected with the sample set, EB-1, EB-2, EB-3, EB-4, EB-5 and EB-6. Mercury was not detected in the equipment blanks above the MDL.

2.8 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, BGWA-29, BGWC-24, BGWC-40 and BGWC-44D, respectively.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverables Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard Method 2540C, alkalinity by Standard Method 2320B, anions by USEPA method 300.0 and sulfide by Standard Method 4500-S2D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Laboratory Duplicate
- ⊗ Field Blank
- ✓ Equipment Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives with the following exceptions. The non-detect result for TDS in sample FB-1 was R qualified as rejected due to the analysis being performed outside of the holding time. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 99.6%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the anions (chloride, fluoride and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the sulfide

analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses with the following exceptions.

The TDS analyses of samples BGWA-29, DUP-1 and FB-1 were performed outside of the holding time. Therefore, based on professional and technical judgment, the TDS concentrations in samples BGWA-29 and DUP-1 were J qualified as estimated and the non-detect result in sample FB-1 was R qualified as rejected.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWA-29	Total Dissolved Solids	108	H1	108	J	2
DUP-1	Total Dissolved Solids	116	H1	116	J	2
FB-1	Total Dissolved Solids	10	U H1	10	R	2

mg/L -milligrams per liter

U -laboratory flag indicating not detected at the MDL

H1 -laboratory flag indicating the analysis was performed outside the holding time

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported for TDS (batches 610168, 610734, 611498, 611643, 612350 and 615203), seven method blanks were reported for the anions (batches 610263, 610549, 610955, 611237, 611329, 611499 and 615330), one method blank was reported for alkalinity (batch 617069) and one method blank was reported for sulfide (batch 615383). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported for the anions using samples BGWC-16, BGWC-25, BGWC-32 and FB-9. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries for sulfate in the MS/MSD pair using sample BGWC-16 and for chloride in the MS/MSD pair using sample BGWC-32, were low and outside of laboratory acceptance criteria. Since the chloride and sulfate concentrations in samples BGWC-16 and BGWC-32, respectively, were greater than four times the spiked concentrations, no qualifications were applied to the data.

Batch MS/MSD pairs were also reported anions, alkalinity and sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported for TDS, seven LCSs were reported for the anions, one LCS was reported for alkalinity and one LCS was reported for sulfide. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Six sample set specific laboratory duplicates were reported for TDS using samples BGWC-16, BGWC-30, BGWC-37D, BGWC-7, BGWC-41D and FB-8. The RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPD results for the laboratory duplicates using samples BGWC-7 and BGW41D were high and outside of the laboratory specified acceptance criteria. Therefore, the TDS concentrations in samples BGWC-7 and BGW41D were J qualified as estimated.

Batch laboratory duplicates were also reported for TDS. Since these were batch QC there was no impact on this data and qualifications were not applied.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWC-7	TDS	570	D6	570	J	12
BGWC-41D	TDS	1010	D6	1010	J	12

mg/L-milligrams per liter

D6 -the precision between the sample and sample duplicate exceeded the laboratory control limits

3.7 Field Blank

Nine field blanks were collected with the sample set, FB-1, FB-2, FB-3, FB-4, FB-5, FB-6, FB-7, FB-8 and FB-9. The wet chemistry parameters were not detected in the field blanks above the MDLs, with the following exceptions.

TDS was detected in FB-2 (10.0 mg/L) and FB-4 (27.0 mg/L) at concentrations greater than the RL. Therefore, the TDS concentrations in samples BGWA-2, BGWC-19 and BGWC-25 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWA-2	TDS	204	NA	204	J+	3
BGWC-19	TDS	205	NA	205	J+	3
BGWC-25	TDS	215	NA	215	J+	3

mg/L-milligrams per liter

NA-not applicable

3.8 Equipment Blank

Six equipment blanks were collected with the sample set, EB-1, EB-2, EB-3, EB-4, EB-5 and EB-6. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

3.9 Field Duplicate

Four field duplicate samples were collected with the sample sets, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original samples, BGWA-29, BGWC-24, BGWC-40 and BGWC-44D, respectively, with the following exception.

The sulfate RPD for the field duplicate pair BGWA-29/DUP-1 was greater than 20%. Therefore, the sulfate results in samples BGWA-29 and DUP-1 were J qualified.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
BGWA-29	Sulfate	4.6	NA	22	4.6	J	7
DUP-1	Sulfate	3.7	NA		3.7	J	7

mg/L -milligrams per liter

NA -not applicable

3.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

3.11 Electronic Data Deliverables Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

4 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Field Blank
- ⊗ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for the radium-228 data (batches 447812, 443753, 441735, 441743 and 443103). Six method blanks were reported for the radium-226 data (batches 446113, 442608, 441707, 442607, 443919 and 441705). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Five LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for radium-226 using samples BGWC-20, BGWC-36D and EB-4. The RER (1σ) results were within the laboratory specified acceptance criteria.

One batch laboratory duplicate was reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Field Blank

Nine field blanks were collected with the sample set, FB-1, FB-2, FB-3, FB-4, FB-5, FB-6, FB-7, FB-8 and FB-9. Radium-226 and radium-228 were not detected in the field blanks above the MDCs.

4.9 Equipment Blank

Six equipment blanks were collected with the sample set, EB-1, EB-2, EB-3, EB-4, EB-5 and EB-6. Radium-226 and radium-228 were not detected in the equipment blanks above the MDCs, with the following exception.

Radium-228 was detected in EB-1 at a concentration greater than the MDC. Therefore, the radium-228 and total radium concentrations in sample BGWC-36D were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result	Validation Qualifier	Reason Code
BGWC-36D	Radium-228	1.85	NA	1.85	J+	3
BGWC-36D	Combined Radium 226 + 228	2.43	NA	2.43	J+	3

pCi/L-picocuries per liter

NA-not applicable

4.10 Field Duplicate

Four field duplicate samples were collected with the sample set, DUP-1, DUP-2, DUP-3 and DUP-4. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicates and the original samples, BGWA-29, BGWC-24, BGWC-40 and BGWC-44D, respectively.

4.11 Sensitivity

The sample was reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverables Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX C2

Field Sampling Forms

Purge Logs

Low-Flow Test Report:

Test Date / Time: 1/20/2021 10:48:30 AM

Project: January 2021 AP Background

Operator Name: Joe Booth

Location Name: BGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89.46 ft Total Depth: 99.46 ft Initial Depth to Water: 70.59 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 94.46 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Prepurge 4 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
1/20/2021 10:48 AM	00:00	7.10 pH	16.73 °C	961.73 µS/cm	0.82 mg/L	0.72 NTU	-68.3 mV	70.59 ft	0.48 PSU	170.00 ml/min
1/20/2021 10:52 AM	04:00	7.10 pH	16.64 °C	952.22 µS/cm	0.61 mg/L	0.67 NTU	-55.8 mV	70.64 ft	0.47 PSU	170.00 ml/min
1/20/2021 10:56 AM	08:00	7.11 pH	16.55 °C	955.27 µS/cm	0.54 mg/L	0.84 NTU	-50.6 mV	70.64 ft	0.47 PSU	170.00 ml/min
1/20/2021 11:00 AM	12:00	7.11 pH	16.46 °C	957.56 µS/cm	0.52 mg/L	0.71 NTU	-51.3 mV	70.64 ft	0.48 PSU	170.00 ml/min
1/20/2021 11:04 AM	16:00	7.12 pH	16.46 °C	960.25 µS/cm	0.51 mg/L	0.45 NTU	-51.8 mV	70.64 ft	0.48 PSU	170.00 ml/min
1/20/2021 11:08 AM	20:00	7.12 pH	16.36 °C	960.56 µS/cm	0.50 mg/L		-52.0 mV	70.64 ft	0.48 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-14A	Metals, TDS, Inorganic, Radium
DUP-1	Metals, TDS, Inorganic, Radium

Low-Flow Test Report:

Test Date / Time: 1/20/2021 1:30:16 PM

Project: January 2021 AP Background

Operator Name: William Laaker

Location Name: BGWA-47D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 144.96 ft Total Depth: 154.96 ft Initial Depth to Water: 59.05 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 149.96 ft Estimated Total Volume Pumped: 18480 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728541
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Test Notes:

Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
1/20/2021 1:30 PM	00:00	7.04 pH	18.99 °C	667.64 µS/cm	1.71 mg/L	10.68 NTU	53.5 mV	59.08 ft	0.33 PSU	140.00 ml/min
1/20/2021 1:34 PM	04:00	6.89 pH	17.63 °C	682.75 µS/cm	0.81 mg/L	9.22 NTU	33.1 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 1:38 PM	08:00	6.87 pH	17.65 °C	681.45 µS/cm	0.49 mg/L	7.04 NTU	27.3 mV	59.08 ft	0.33 PSU	140.00 ml/min
1/20/2021 1:42 PM	12:00	6.87 pH	17.50 °C	683.83 µS/cm	0.34 mg/L	7.63 NTU	24.3 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 1:46 PM	16:00	6.86 pH	17.61 °C	684.32 µS/cm	0.28 mg/L	8.36 NTU	22.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 1:50 PM	20:00	6.86 pH	17.37 °C	687.35 µS/cm	0.25 mg/L	6.98 NTU	21.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 1:54 PM	24:00	6.85 pH	17.34 °C	687.43 µS/cm	0.23 mg/L	7.59 NTU	21.3 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 1:58 PM	28:00	6.86 pH	17.32 °C	690.92 µS/cm	0.22 mg/L	8.60 NTU	20.3 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:02 PM	32:00	6.86 pH	17.19 °C	693.18 µS/cm	0.21 mg/L	7.36 NTU	20.1 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:06 PM	36:00	6.86 pH	17.10 °C	693.43 µS/cm	0.21 mg/L	6.19 NTU	19.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:10 PM	40:00	6.85 pH	17.11 °C	695.79 µS/cm	0.21 mg/L	6.43 NTU	19.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:14 PM	44:00	6.85 pH	17.19 °C	695.04 µS/cm	0.21 mg/L	6.08 NTU	19.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:18 PM	48:00	6.85 pH	17.01 °C	693.77 µS/cm	0.20 mg/L	6.10 NTU	19.5 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:22 PM	52:00	6.85 pH	17.10 °C	694.34 µS/cm	0.20 mg/L	6.26 NTU	19.4 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:26 PM	56:00	6.85 pH	17.11 °C	695.17 µS/cm	0.20 mg/L	6.27 NTU	18.9 mV	59.08 ft	0.34 PSU	140.00 ml/min

1/20/2021 2:30 PM	01:00:00	6.85 pH	17.10 °C	695.14 µS/cm	0.20 mg/L	6.42 NTU	18.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:34 PM	01:04:00	6.84 pH	17.23 °C	695.16 µS/cm	0.20 mg/L	7.35 NTU	19.0 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:38 PM	01:08:00	6.84 pH	17.28 °C	694.19 µS/cm	0.20 mg/L	6.16 NTU	18.9 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:42 PM	01:12:00	6.84 pH	17.32 °C	693.67 µS/cm	0.19 mg/L	5.53 NTU	18.9 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:46 PM	01:16:00	6.84 pH	17.30 °C	694.86 µS/cm	0.19 mg/L	6.59 NTU	18.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:50 PM	01:20:00	6.84 pH	17.23 °C	694.15 µS/cm	0.19 mg/L	5.94 NTU	18.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:54 PM	01:24:00	6.84 pH	17.05 °C	695.78 µS/cm	0.19 mg/L	5.82 NTU	19.0 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 2:58 PM	01:28:00	6.84 pH	17.04 °C	695.73 µS/cm	0.19 mg/L	4.75 NTU	18.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:02 PM	01:32:00	6.84 pH	17.05 °C	695.77 µS/cm	0.19 mg/L	6.03 NTU	18.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:06 PM	01:36:00	6.84 pH	17.07 °C	696.10 µS/cm	0.19 mg/L	5.97 NTU	18.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:10 PM	01:40:00	6.84 pH	17.20 °C	696.38 µS/cm	0.19 mg/L	5.72 NTU	18.7 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:14 PM	01:44:00	6.84 pH	17.01 °C	695.12 µS/cm	0.19 mg/L	5.57 NTU	18.8 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:18 PM	01:48:00	6.84 pH	16.92 °C	698.85 µS/cm	0.19 mg/L	4.59 NTU	18.4 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:22 PM	01:52:00	6.84 pH	17.00 °C	697.90 µS/cm	0.19 mg/L	4.20 NTU	18.4 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:26 PM	01:56:00	6.84 pH	16.99 °C	699.05 µS/cm	0.19 mg/L	5.89 NTU	18.3 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:30 PM	02:00:00	6.84 pH	16.92 °C	698.46 µS/cm	0.20 mg/L	5.74 NTU	18.2 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:34 PM	02:04:00	6.83 pH	16.93 °C	699.08 µS/cm	0.19 mg/L	4.56 NTU	18.4 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:38 PM	02:08:00	6.83 pH	16.87 °C	699.80 µS/cm	0.25 mg/L	4.14 NTU	18.4 mV	59.08 ft	0.34 PSU	140.00 ml/min
1/20/2021 3:42 PM	02:12:00	6.83 pH	16.83 °C	697.36 µS/cm	0.19 mg/L	3.59 NTU	18.2 mV	59.08 ft	0.34 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWA-47D	Metals, TDS, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 1/20/2021 10:24:39 AM

Project: January 2021 AP Background

Operator Name: William Laaker

Location Name: BGWA-48D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 184.79 ft Total Depth: 194.79 ft Initial Depth to Water: 58.87 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 189.79 ft Estimated Total Volume Pumped: 16120 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 1.67 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728541
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Test Notes:

Prepurged 3 L

Large flaky white sediment at the start of pumping.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
1/20/2021 10:24 AM	00:00	7.29 pH	17.46 °C	508.57 µS/cm	0.46 mg/L	4.41 NTU	62.1 mV	60.39 ft	0.25 PSU	130.00 ml/min
1/20/2021 10:28 AM	04:00	7.29 pH	16.67 °C	568.45 µS/cm	0.24 mg/L	4.80 NTU	41.8 mV	60.40 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:32 AM	08:00	7.30 pH	16.56 °C	571.39 µS/cm	0.21 mg/L	5.35 NTU	36.4 mV	60.40 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:36 AM	12:00	7.29 pH	16.50 °C	575.88 µS/cm	0.21 mg/L	5.79 NTU	33.5 mV	60.40 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:40 AM	16:00	7.30 pH	16.79 °C	574.95 µS/cm	0.19 mg/L	3.82 NTU	31.4 mV	60.40 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:44 AM	20:00	7.29 pH	16.83 °C	575.84 µS/cm	0.19 mg/L	5.79 NTU	30.3 mV	60.41 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:48 AM	24:00	7.30 pH	16.86 °C	575.26 µS/cm	0.18 mg/L	6.76 NTU	29.2 mV	60.42 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:52 AM	28:00	7.30 pH	16.78 °C	575.74 µS/cm	0.18 mg/L	6.30 NTU	28.5 mV	60.43 ft	0.28 PSU	130.00 ml/min
1/20/2021 10:56 AM	32:00	7.30 pH	16.79 °C	572.59 µS/cm	0.17 mg/L	6.15 NTU	27.9 mV	60.44 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:00 AM	36:00	7.30 pH	16.78 °C	576.11 µS/cm	0.16 mg/L	6.05 NTU	27.4 mV	60.45 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:04 AM	40:00	7.30 pH	16.87 °C	575.10 µS/cm	0.16 mg/L	14.60 NTU	27.2 mV	60.46 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:08 AM	44:00	7.30 pH	16.93 °C	574.13 µS/cm	0.16 mg/L	13.00 NTU	26.7 mV	60.47 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:12 AM	48:00	7.30 pH	16.91 °C	574.78 µS/cm	0.15 mg/L	17.60 NTU	26.2 mV	60.47 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:16 AM	52:00	7.30 pH	17.06 °C	573.39 µS/cm	0.15 mg/L	14.60 NTU	25.8 mV	60.47 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:20 AM	56:00	7.31 pH	17.01 °C	573.73 µS/cm	0.15 mg/L	17.20 NTU	25.8 mV	60.49 ft	0.28 PSU	130.00 ml/min

1/20/2021 11:24 AM	01:00:00	7.31 pH	17.05 °C	572.12 µS/cm	0.14 mg/L	14.80 NTU	25.4 mV	60.50 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:28 AM	01:04:00	7.31 pH	17.17 °C	572.10 µS/cm	0.15 mg/L	11.80 NTU	25.1 mV	60.49 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:32 AM	01:08:00	7.31 pH	17.20 °C	573.22 µS/cm	0.15 mg/L	10.82 NTU	25.0 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:36 AM	01:12:00	7.31 pH	17.14 °C	572.61 µS/cm	0.15 mg/L	10.59 NTU	24.9 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:40 AM	01:16:00	7.31 pH	17.13 °C	571.44 µS/cm	0.14 mg/L	10.05 NTU	24.9 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:44 AM	01:20:00	7.31 pH	17.14 °C	569.34 µS/cm	0.14 mg/L	9.40 NTU	24.6 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:48 AM	01:24:00	7.31 pH	17.28 °C	571.74 µS/cm	0.15 mg/L	7.14 NTU	24.4 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:52 AM	01:28:00	7.31 pH	17.27 °C	569.16 µS/cm	0.14 mg/L	7.99 NTU	24.4 mV	60.48 ft	0.28 PSU	130.00 ml/min
1/20/2021 11:56 AM	01:32:00	7.31 pH	16.97 °C	575.91 µS/cm	0.15 mg/L	7.02 NTU	24.3 mV	60.51 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:00 PM	01:36:00	7.31 pH	16.79 °C	578.35 µS/cm	0.15 mg/L	6.57 NTU	24.5 mV	60.53 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:04 PM	01:40:00	7.31 pH	16.78 °C	578.81 µS/cm	0.15 mg/L	6.61 NTU	24.4 mV	60.52 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:08 PM	01:44:00	7.32 pH	16.70 °C	577.57 µS/cm	0.15 mg/L	6.40 NTU	24.3 mV	60.51 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:12 PM	01:48:00	7.31 pH	16.68 °C	578.59 µS/cm	0.15 mg/L	5.22 NTU	23.9 mV	60.51 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:16 PM	01:52:00	7.32 pH	16.65 °C	578.55 µS/cm	0.15 mg/L	5.30 NTU	23.7 mV	60.52 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:20 PM	01:56:00	7.32 pH	16.87 °C	573.65 µS/cm	0.15 mg/L	4.52 NTU	23.4 mV	60.52 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:24 PM	02:00:00	7.32 pH	17.41 °C	570.70 µS/cm	0.14 mg/L	4.43 NTU	23.1 mV	60.53 ft	0.28 PSU	130.00 ml/min
1/20/2021 12:28 PM	02:04:00	7.31 pH	17.66 °C	569.33 µS/cm	0.15 mg/L	4.12 NTU	23.3 mV	60.54 ft	0.28 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWA-48D	Metals, TDS, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 1/28/2021 9:26:37 AM

Project: Plant Bowen AP 2021 Well Background

Operator Name: Veronica Fay

<p>Location Name: BGWC-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 54.5 ft Total Depth: 67.29 ft Initial Depth to Water: 40.7 ft</p>	<p>Pump Type: QED Bladder Tubing Type: LDPE Tubing Inner Diameter: 0.5 in Tubing Length: 70 ft Pump Intake From TOC: 59.4 ft Estimated Total Volume Pumped: 19040 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 789310</p>
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Test Notes:

Prepurged 2L

Well needs more pea gravel

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
1/28/2021 9:26 AM	00:00	6.76 pH	14.74 °C	3,804.6 µS/cm	0.59 mg/L	68.10 NTU	-132.7 mV	40.70 ft	2.02 PSU	140.00 ml/min
1/28/2021 9:30 AM	04:00	6.77 pH	14.88 °C	3,785.7 µS/cm	0.43 mg/L	45.50 NTU	-132.3 mV	40.70 ft	2.01 PSU	140.00 ml/min
1/28/2021 9:34 AM	08:00	6.78 pH	14.95 °C	3,768.2 µS/cm	0.34 mg/L	43.20 NTU	-130.1 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 9:38 AM	12:00	6.79 pH	14.79 °C	3,762.2 µS/cm	0.30 mg/L	33.50 NTU	-122.2 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 9:42 AM	16:00	6.79 pH	14.83 °C	3,766.4 µS/cm	0.28 mg/L	24.80 NTU	-117.2 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 9:46 AM	20:00	6.79 pH	14.70 °C	3,785.9 µS/cm	0.25 mg/L	23.20 NTU	-112.3 mV	40.70 ft	2.01 PSU	140.00 ml/min
1/28/2021 9:50 AM	24:00	6.79 pH	14.74 °C	3,765.3 µS/cm	0.23 mg/L	16.60 NTU	-109.1 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 9:54 AM	28:00	6.80 pH	14.77 °C	3,762.0 µS/cm	0.21 mg/L	18.00 NTU	-102.8 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 9:58 AM	32:00	6.80 pH	15.02 °C	3,757.9 µS/cm	0.21 mg/L	17.10 NTU	-98.9 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 10:02 AM	36:00	6.80 pH	14.96 °C	3,746.2 µS/cm	0.20 mg/L	15.80 NTU	-95.3 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:06 AM	40:00	6.80 pH	14.95 °C	3,750.1 µS/cm	0.19 mg/L	15.40 NTU	-90.0 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:10 AM	44:00	6.80 pH	15.19 °C	3,748.2 µS/cm	0.19 mg/L	15.60 NTU	-86.1 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:14 AM	48:00	6.80 pH	15.01 °C	3,746.0 µS/cm	0.18 mg/L	14.00 NTU	-82.2 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:18 AM	52:00	6.80 pH	14.82 °C	3,757.3 µS/cm	0.18 mg/L	12.70 NTU	-78.2 mV	40.70 ft	1.99 PSU	140.00 ml/min

1/28/2021 10:22 AM	56:00	6.80 pH	14.91 °C	3,753.5 µS/cm	0.17 mg/L	12.40 NTU	-74.5 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:26 AM	01:00:00	6.81 pH	14.86 °C	3,746.9 µS/cm	0.17 mg/L	12.50 NTU	-70.3 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:30 AM	01:04:00	6.80 pH	14.92 °C	3,751.6 µS/cm	0.17 mg/L	12.00 NTU	-65.4 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:34 AM	01:08:00	6.81 pH	14.79 °C	3,754.6 µS/cm	0.16 mg/L	12.49 NTU	-62.9 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:38 AM	01:12:00	6.81 pH	14.75 °C	3,752.5 µS/cm	0.16 mg/L	12.26 NTU	-58.5 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:42 AM	01:16:00	6.81 pH	14.83 °C	3,761.8 µS/cm	0.16 mg/L	11.24 NTU	-53.4 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 10:46 AM	01:20:00	6.81 pH	14.88 °C	3,754.8 µS/cm	0.15 mg/L	9.63 NTU	-49.2 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 10:50 AM	01:24:00	6.80 pH	14.88 °C	3,775.1 µS/cm	0.16 mg/L	9.56 NTU	-45.1 mV	40.70 ft	2.01 PSU	140.00 ml/min
1/28/2021 10:54 AM	01:28:00	6.81 pH	14.93 °C	3,760.2 µS/cm	0.15 mg/L	9.05 NTU	-41.4 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 10:58 AM	01:32:00	6.81 pH	14.79 °C	3,756.9 µS/cm	0.15 mg/L	8.88 NTU	-38.4 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 11:02 AM	01:36:00	6.81 pH	14.78 °C	3,755.5 µS/cm	0.15 mg/L	7.90 NTU	-34.8 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 11:06 AM	01:40:00	6.81 pH	14.79 °C	3,762.0 µS/cm	0.15 mg/L	8.16 NTU	-32.8 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:10 AM	01:44:00	6.81 pH	14.92 °C	3,759.6 µS/cm	0.14 mg/L	6.97 NTU	-30.2 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:14 AM	01:48:00	6.81 pH	14.93 °C	3,758.4 µS/cm	0.14 mg/L	5.85 NTU	-26.4 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:18 AM	01:52:00	6.81 pH	14.92 °C	3,754.0 µS/cm	0.14 mg/L	6.12 NTU	-22.8 mV	40.70 ft	1.99 PSU	140.00 ml/min
1/28/2021 11:22 AM	01:56:00	6.80 pH	14.88 °C	3,772.2 µS/cm	0.14 mg/L	6.45 NTU	-20.3 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:26 AM	02:00:00	6.81 pH	14.97 °C	3,771.4 µS/cm	0.14 mg/L	6.12 NTU	-17.4 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:30 AM	02:04:00	6.81 pH	14.97 °C	3,772.2 µS/cm	0.14 mg/L	5.50 NTU	-15.7 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:34 AM	02:08:00	6.81 pH	15.05 °C	3,761.3 µS/cm	0.14 mg/L	4.94 NTU	-14.4 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:38 AM	02:12:00	6.81 pH	15.06 °C	3,761.5 µS/cm	0.14 mg/L	4.63 NTU	-12.8 mV	40.70 ft	2.00 PSU	140.00 ml/min
1/28/2021 11:42 AM	02:16:00	6.81 pH	14.93 °C	3,759.4 µS/cm	0.14 mg/L	4.50 NTU	-10.9 mV	40.70 ft	2.00 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-51	Metals, Inorganics, TDS, RADIUM

Low-Flow Test Report:

Test Date / Time: 1/28/2021 9:42:09 AM

Project: Plant Bowen AP 2021 Well Background

Operator Name: Kevin Stephenson

Location Name: BGWC-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 72.18 ft Total Depth: 82.18 ft Initial Depth to Water: 39.93 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 77.18 ft Estimated Total Volume Pumped: 7280 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 6 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
1/28/2021 9:42 AM	00:00	6.98 pH	11.56 °C	2,387.5 µS/cm	3.36 mg/L	11.50 NTU	-40.5 mV	39.95 ft	1.23 PSU	140.00 ml/min
1/28/2021 9:46 AM	04:00	7.02 pH	14.24 °C	2,259.4 µS/cm	1.67 mg/L	11.05 NTU	-390.0 mV	39.95 ft	1.17 PSU	140.00 ml/min
1/28/2021 9:50 AM	08:00	7.02 pH	14.66 °C	2,247.0 µS/cm	0.91 mg/L	9.32 NTU	-404.8 mV	39.95 ft	1.16 PSU	140.00 ml/min
1/28/2021 9:54 AM	12:00	7.02 pH	14.80 °C	2,261.7 µS/cm	0.84 mg/L	9.20 NTU	-394.4 mV	39.95 ft	1.17 PSU	140.00 ml/min
1/28/2021 9:58 AM	16:00	7.01 pH	14.93 °C	2,278.8 µS/cm	0.81 mg/L	7.79 NTU	-386.7 mV	39.96 ft	1.18 PSU	140.00 ml/min
1/28/2021 10:02 AM	20:00	7.01 pH	14.84 °C	2,253.1 µS/cm	0.73 mg/L	7.62 NTU	-377.6 mV	39.96 ft	1.16 PSU	140.00 ml/min
1/28/2021 10:06 AM	24:00	7.01 pH	14.86 °C	2,252.0 µS/cm	0.67 mg/L	7.00 NTU	-369.3 mV	39.96 ft	1.16 PSU	140.00 ml/min
1/28/2021 10:10 AM	28:00	7.01 pH	14.96 °C	2,255.8 µS/cm	0.65 mg/L	6.96 NTU	-364.3 mV	39.96 ft	1.16 PSU	140.00 ml/min
1/28/2021 10:14 AM	32:00	7.01 pH	14.91 °C	2,262.9 µS/cm	0.58 mg/L	5.87 NTU	-353.1 mV	39.96 ft	1.17 PSU	140.00 ml/min
1/28/2021 10:18 AM	36:00	7.01 pH	14.87 °C	2,261.3 µS/cm	0.56 mg/L	5.49 NTU	-342.9 mV	39.96 ft	1.17 PSU	140.00 ml/min
1/28/2021 10:22 AM	40:00	7.01 pH	14.82 °C	2,254.4 µS/cm	0.51 mg/L	5.45 NTU	-338.3 mV	39.96 ft	1.16 PSU	140.00 ml/min
1/28/2021 10:26 AM	44:00	7.01 pH	15.01 °C	2,252.1 µS/cm	0.48 mg/L	4.94 NTU	-333.5 mV	39.96 ft	1.16 PSU	140.00 ml/min
1/28/2021 10:30 AM	48:00	7.00 pH	15.02 °C	2,257.9 µS/cm	0.46 mg/L	4.99 NTU	-327.6 mV	39.96 ft	1.17 PSU	140.00 ml/min
1/28/2021 10:34 AM	52:00	7.01 pH	14.86 °C	2,254.9 µS/cm	0.43 mg/L	4.60 NTU	-319.4 mV	39.96 ft	1.16 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-52	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 2/16/2021 1:04:08 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 79.17 ft Total Depth: 89.17 ft Initial Depth to Water: 55.78 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 84.17 ft Estimated Total Volume Pumped: 12240 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: -1.11 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/16/2021 1:04 PM	00:00	7.63 pH	10.71 °C	389.32 µS/cm	2.53 mg/L	6.69 NTU	28.2 mV	53.78 ft	0.19 PSU	180.00 ml/min
2/16/2021 1:08 PM	04:00	7.68 pH	9.97 °C	384.31 µS/cm	2.40 mg/L	58.30 NTU	40.6 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:12 PM	08:00	7.69 pH	9.78 °C	382.19 µS/cm	2.19 mg/L	52.70 NTU	44.3 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:16 PM	12:00	7.70 pH	10.01 °C	381.43 µS/cm	1.99 mg/L	44.70 NTU	47.5 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:20 PM	16:00	7.71 pH	9.96 °C	373.79 µS/cm	1.77 mg/L	41.60 NTU	47.6 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:24 PM	20:00	7.71 pH	9.98 °C	373.98 µS/cm	1.69 mg/L	30.10 NTU	49.6 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:28 PM	24:00	7.71 pH	10.25 °C	372.03 µS/cm	1.62 mg/L	21.60 NTU	52.0 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:32 PM	28:00	7.72 pH	10.26 °C	367.93 µS/cm	1.56 mg/L	18.40 NTU	51.3 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:36 PM	32:00	7.72 pH	10.20 °C	366.88 µS/cm	1.53 mg/L	14.80 NTU	51.4 mV	54.67 ft	0.18 PSU	180.00 ml/min
2/16/2021 1:40 PM	36:00	7.72 pH	10.15 °C	363.36 µS/cm	1.49 mg/L	14.50 NTU	51.6 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 1:44 PM	40:00	7.73 pH	10.20 °C	362.12 µS/cm	1.46 mg/L	10.73 NTU	51.8 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 1:48 PM	44:00	7.73 pH	10.20 °C	361.32 µS/cm	1.44 mg/L	9.30 NTU	50.5 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 1:52 PM	48:00	7.74 pH	10.08 °C	360.56 µS/cm	1.42 mg/L	8.06 NTU	50.7 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 1:56 PM	52:00	7.74 pH	10.15 °C	359.36 µS/cm	1.40 mg/L	6.55 NTU	49.6 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 2:00 PM	56:00	7.74 pH	10.06 °C	361.51 µS/cm	1.42 mg/L	5.82 NTU	50.3 mV	54.67 ft	0.17 PSU	180.00 ml/min

2/16/2021 2:04 PM	01:00:00	7.75 pH	10.34 °C	361.76 µS/cm	1.41 mg/L	4.70 NTU	48.5 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 2:08 PM	01:04:00	7.76 pH	10.10 °C	360.72 µS/cm	1.42 mg/L	4.14 NTU	47.6 mV	54.67 ft	0.17 PSU	180.00 ml/min
2/16/2021 2:12 PM	01:08:00	7.75 pH	10.19 °C	363.00 µS/cm	1.44 mg/L	4.57 NTU	47.1 mV	54.67 ft	0.17 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWA-2	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 12:24:07 PM

Project: Plant Bowen AP February 2021 AP Scan (2)

Operator Name: Joe Booth

Location Name: BGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.74 ft Total Depth: 62.74 ft Initial Depth to Water: 42.31 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.74 ft Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/18/2021 12:24 PM	00:00	7.45 pH	13.84 °C	710.00 µS/cm	4.91 mg/L	11.30 NTU	-43.8 mV	42.31 ft	0.35 PSU	150.00 ml/min
2/18/2021 12:28 PM	04:00	7.39 pH	14.79 °C	706.07 µS/cm	1.84 mg/L	21.60 NTU	-28.0 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 12:32 PM	08:00	7.37 pH	14.84 °C	704.10 µS/cm	1.47 mg/L	36.60 NTU	-23.4 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 12:36 PM	12:00	7.36 pH	14.41 °C	703.23 µS/cm	1.37 mg/L	53.70 NTU	-21.3 mV	42.39 ft	0.34 PSU	150.00 ml/min
2/18/2021 12:40 PM	16:00	7.36 pH	14.20 °C	701.92 µS/cm	1.06 mg/L	46.67 NTU	-19.5 mV	42.39 ft	0.34 PSU	150.00 ml/min
2/18/2021 12:44 PM	20:00	7.35 pH	14.31 °C	702.59 µS/cm	0.90 mg/L	53.60 NTU	-18.7 mV	42.39 ft	0.34 PSU	150.00 ml/min
2/18/2021 12:48 PM	24:00	7.35 pH	13.97 °C	704.04 µS/cm	0.87 mg/L	50.43 NTU	-17.7 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 12:52 PM	28:00	7.34 pH	14.21 °C	704.22 µS/cm	0.85 mg/L	50.50 NTU	-17.3 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 12:56 PM	32:00	7.34 pH	14.32 °C	704.38 µS/cm	0.84 mg/L	36.50 NTU	-16.6 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:00 PM	36:00	7.34 pH	14.34 °C	704.34 µS/cm	0.83 mg/L	31.20 NTU	-16.2 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:04 PM	40:00	7.33 pH	14.47 °C	705.30 µS/cm	0.84 mg/L	28.20 NTU	-15.8 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:08 PM	44:00	7.33 pH	14.52 °C	704.08 µS/cm	0.91 mg/L	19.70 NTU	-15.3 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:12 PM	48:00	7.33 pH	14.33 °C	704.14 µS/cm	0.95 mg/L	17.40 NTU	-14.8 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:16 PM	52:00	7.33 pH	14.48 °C	705.71 µS/cm	0.95 mg/L	14.30 NTU	-14.7 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:20 PM	56:00	7.33 pH	14.65 °C	704.88 µS/cm	0.93 mg/L	11.50 NTU	-14.3 mV	42.39 ft	0.35 PSU	150.00 ml/min

2/18/2021 1:24 PM	01:00:00	7.33 pH	14.51 °C	705.34 µS/cm	0.92 mg/L	9.84 NTU	-14.0 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:28 PM	01:04:00	7.33 pH	14.56 °C	704.95 µS/cm	0.90 mg/L	8.56 NTU	-14.0 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:32 PM	01:08:00	7.33 pH	14.33 °C	703.91 µS/cm	0.90 mg/L	8.53 NTU	-13.5 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:36 PM	01:12:00	7.33 pH	14.28 °C	703.65 µS/cm	0.87 mg/L	8.33 NTU	-13.4 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:40 PM	01:16:00	7.34 pH	14.34 °C	703.85 µS/cm	0.87 mg/L	7.71 NTU	-13.4 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:44 PM	01:20:00	7.34 pH	14.40 °C	704.16 µS/cm	0.85 mg/L	7.25 NTU	-13.4 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:48 PM	01:24:00	7.34 pH	14.40 °C	702.44 µS/cm	0.83 mg/L	6.59 NTU	-13.1 mV	42.39 ft	0.34 PSU	150.00 ml/min
2/18/2021 1:52 PM	01:28:00	7.34 pH	14.47 °C	704.22 µS/cm	0.82 mg/L	6.42 NTU	-13.0 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 1:56 PM	01:32:00	7.34 pH	14.41 °C	702.46 µS/cm	0.82 mg/L	5.83 NTU	-12.9 mV	42.39 ft	0.34 PSU	150.00 ml/min
2/18/2021 2:00 PM	01:36:00	7.34 pH	14.52 °C	705.23 µS/cm	0.83 mg/L	5.17 NTU	-12.9 mV	42.39 ft	0.35 PSU	150.00 ml/min
2/18/2021 2:04 PM	01:40:00	7.34 pH	14.56 °C	703.75 µS/cm	0.80 mg/L	4.82 NTU	-12.8 mV	42.39 ft	0.35 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWA-6	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/17/2021 12:54:24 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 80.40 ft Total Depth: 90.40 ft Initial Depth to Water: 41.42 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 85.40 ft Estimated Total Volume Pumped: 20880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 38.78 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

WL dropped below the top of screen. Complete evacuation method initiated. Samples to be collected 2/18.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/17/2021 12:54 PM	00:00	6.79 pH	17.55 °C	1,079.3 µS/cm	1.98 mg/L	0.70 NTU	63.6 mV	50.64 ft	0.54 PSU	180.00 ml/min
2/17/2021 12:58 PM	04:00	6.85 pH	16.48 °C	1,045.9 µS/cm	0.15 mg/L	0.61 NTU	-16.2 mV	52.22 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:02 PM	08:00	6.89 pH	16.23 °C	1,042.2 µS/cm	0.14 mg/L	0.74 NTU	-42.9 mV	53.53 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:06 PM	12:00	6.91 pH	16.28 °C	1,046.9 µS/cm	0.14 mg/L	0.76 NTU	-53.8 mV	54.67 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:10 PM	16:00	6.92 pH	16.49 °C	1,044.2 µS/cm	0.14 mg/L	0.87 NTU	-58.8 mV	55.13 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:14 PM	20:00	6.93 pH	16.44 °C	1,046.5 µS/cm	0.15 mg/L	1.01 NTU	-60.5 mV	56.34 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:18 PM	24:00	6.93 pH	16.28 °C	1,044.5 µS/cm	0.16 mg/L	0.83 NTU	-60.1 mV	57.64 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:22 PM	28:00	6.94 pH	16.68 °C	1,038.1 µS/cm	0.15 mg/L	0.89 NTU	-59.9 mV	58.73 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:26 PM	32:00	6.96 pH	16.68 °C	1,034.2 µS/cm	0.16 mg/L	0.78 NTU	-59.4 mV	60.50 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:30 PM	36:00	6.98 pH	16.55 °C	1,040.5 µS/cm	0.17 mg/L	0.80 NTU	-58.2 mV	61.04 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:34 PM	40:00	6.99 pH	16.72 °C	1,037.7 µS/cm	0.20 mg/L	0.89 NTU	-57.2 mV	61.49 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:38 PM	44:00	7.01 pH	16.91 °C	1,037.7 µS/cm	0.24 mg/L	0.67 NTU	-55.7 mV	62.53 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:42 PM	48:00	7.02 pH	16.58 °C	1,037.6 µS/cm	0.27 mg/L	0.91 NTU	-53.6 mV	64.12 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:46 PM	52:00	7.03 pH	16.86 °C	1,036.3 µS/cm	0.30 mg/L	1.02 NTU	-52.3 mV	65.03 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:50 PM	56:00	7.04 pH	16.68 °C	1,035.7 µS/cm	0.31 mg/L	1.22 NTU	-50.3 mV	65.99 ft	0.52 PSU	180.00 ml/min

2/17/2021 1:54 PM	01:00:00	7.04 pH	16.88 °C	1,038.3 µS/cm	0.33 mg/L	0.87 NTU	-48.9 mV	66.88 ft	0.52 PSU	180.00 ml/min
2/17/2021 1:58 PM	01:04:00	7.04 pH	16.96 °C	1,036.7 µS/cm	0.35 mg/L	0.94 NTU	-47.8 mV	66.88 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:02 PM	01:08:00	7.05 pH	17.06 °C	1,035.5 µS/cm	0.35 mg/L	0.83 NTU	-46.8 mV	67.79 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:06 PM	01:12:00	7.05 pH	17.00 °C	1,036.6 µS/cm	0.34 mg/L	0.79 NTU	-45.4 mV	68.87 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:10 PM	01:16:00	7.05 pH	17.00 °C	1,035.7 µS/cm	0.34 mg/L	0.90 NTU	-44.5 mV	69.10 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:14 PM	01:20:00	7.06 pH	17.12 °C	1,034.3 µS/cm	0.34 mg/L	1.31 NTU	-43.6 mV	70.67 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:18 PM	01:24:00	7.05 pH	17.08 °C	1,036.6 µS/cm	0.35 mg/L	0.90 NTU	-42.5 mV	72.14 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:22 PM	01:28:00	7.05 pH	17.09 °C	1,037.6 µS/cm	0.35 mg/L	0.98 NTU	-41.9 mV	73.39 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:26 PM	01:32:00	7.06 pH	16.99 °C	1,036.2 µS/cm	0.37 mg/L	0.84 NTU	-40.7 mV	74.40 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:30 PM	01:36:00	7.05 pH	17.02 °C	1,039.0 µS/cm	0.37 mg/L	0.79 NTU	-40.2 mV	75.33 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:34 PM	01:40:00	7.05 pH	16.73 °C	1,041.6 µS/cm	0.37 mg/L	0.66 NTU	-39.5 mV	76.25 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:38 PM	01:44:00	7.05 pH	16.82 °C	1,039.4 µS/cm	0.39 mg/L	0.70 NTU	-39.6 mV	76.25 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:42 PM	01:48:00	7.05 pH	16.92 °C	1,040.8 µS/cm	0.41 mg/L	0.71 NTU	-39.9 mV	76.25 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:46 PM	01:52:00	7.05 pH	16.99 °C	1,039.7 µS/cm	0.41 mg/L	0.71 NTU	-40.1 mV	78.74 ft	0.52 PSU	180.00 ml/min
2/17/2021 2:50 PM	01:56:00	7.05 pH	17.00 °C	1,038.6 µS/cm	0.40 mg/L	0.58 NTU	-40.5 mV	80.20 ft	0.52 PSU	180.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/16/2021 2:00:06 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.73 ft Total Depth: 79.73 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 74.73 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/16/2021 2:00 PM	00:00	8.03 pH	13.03 °C	350.84 µS/cm	5.80 mg/L	8.12 NTU	49.3 mV	42.17 ft	0.17 PSU	180.00 ml/min
2/16/2021 2:04 PM	04:00	7.70 pH	14.21 °C	333.16 µS/cm	5.34 mg/L	7.17 NTU	45.1 mV	42.17 ft	0.16 PSU	180.00 ml/min
2/16/2021 2:08 PM	08:00	7.68 pH	14.60 °C	332.52 µS/cm	5.30 mg/L	5.38 NTU	43.8 mV	42.17 ft	0.16 PSU	180.00 ml/min
2/16/2021 2:12 PM	12:00	7.68 pH	14.89 °C	330.51 µS/cm	5.21 mg/L	4.68 NTU	43.4 mV	42.17 ft	0.16 PSU	180.00 ml/min
2/16/2021 2:16 PM	16:00	7.68 pH	14.95 °C	332.05 µS/cm	5.18 mg/L	4.21 NTU	42.7 mV	42.18 ft	0.16 PSU	180.00 ml/min
2/16/2021 2:20 PM	20:00	7.69 pH	14.89 °C	332.11 µS/cm	5.04 mg/L	3.43 NTU	42.1 mV	42.18 ft	0.16 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWC-8	Metals, Inorganics, Radium
DUP-1	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/17/2021 3:30:34 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.74 ft Total Depth: 63.74 ft Initial Depth to Water: 23.93 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 58.74 ft Estimated Total Volume Pumped: 4320 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/17/2021 3:30 PM	00:00	7.44 pH	19.88 °C	560.28 µS/cm	3.61 mg/L	1.04 NTU	-37.8 mV	23.97 ft	0.27 PSU	180.00 ml/min
2/17/2021 3:34 PM	04:00	7.37 pH	17.68 °C	557.44 µS/cm	0.51 mg/L	1.40 NTU	-71.0 mV	23.97 ft	0.27 PSU	180.00 ml/min
2/17/2021 3:38 PM	08:00	7.40 pH	17.52 °C	546.94 µS/cm	0.44 mg/L	1.43 NTU	-78.9 mV	23.97 ft	0.27 PSU	180.00 ml/min
2/17/2021 3:42 PM	12:00	7.42 pH	17.53 °C	545.59 µS/cm	0.38 mg/L	1.34 NTU	-83.0 mV	23.97 ft	0.27 PSU	180.00 ml/min
2/17/2021 3:46 PM	16:00	7.43 pH	17.51 °C	535.82 µS/cm	0.45 mg/L	1.42 NTU	-82.2 mV	23.97 ft	0.26 PSU	180.00 ml/min
2/17/2021 3:50 PM	20:00	7.43 pH	17.49 °C	531.08 µS/cm	0.52 mg/L	1.36 NTU	-79.8 mV	23.97 ft	0.26 PSU	180.00 ml/min
2/17/2021 3:54 PM	24:00	7.43 pH	17.53 °C	528.51 µS/cm	0.62 mg/L	1.30 NTU	-76.7 mV	23.97 ft	0.26 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWC-9	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 12:10:13 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.36 ft Total Depth: 62.36 ft Initial Depth to Water: 20.88 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.36 ft Estimated Total Volume Pumped: 38400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 26.47 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 12:10 PM	00:00	7.51 pH	14.66 °C	626.77 µS/cm	0.45 mg/L	3.24 NTU	-32.2 mV	25.34 ft	0.31 PSU	160.00 ml/min
2/18/2021 12:14 PM	04:00	7.51 pH	14.86 °C	621.26 µS/cm	0.34 mg/L	2.70 NTU	-30.2 mV	26.18 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:18 PM	08:00	7.51 pH	15.02 °C	619.83 µS/cm	0.33 mg/L	2.25 NTU	-30.6 mV	27.04 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:22 PM	12:00	7.51 pH	15.16 °C	613.69 µS/cm	0.35 mg/L	2.20 NTU	-31.9 mV	27.28 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:26 PM	16:00	7.49 pH	15.11 °C	612.59 µS/cm	0.38 mg/L	2.26 NTU	-32.7 mV	27.61 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:30 PM	20:00	7.49 pH	15.11 °C	609.10 µS/cm	0.43 mg/L	1.95 NTU	-33.9 mV	28.44 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:34 PM	24:00	7.48 pH	15.17 °C	606.68 µS/cm	0.48 mg/L	1.91 NTU	-36.3 mV	28.69 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:38 PM	28:00	7.47 pH	15.07 °C	604.29 µS/cm	0.54 mg/L	2.44 NTU	-37.7 mV	29.18 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:42 PM	32:00	7.47 pH	15.02 °C	604.10 µS/cm	0.58 mg/L	1.96 NTU	-39.4 mV	29.74 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:46 PM	36:00	7.47 pH	14.90 °C	605.42 µS/cm	0.62 mg/L	2.33 NTU	-40.2 mV	30.04 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:50 PM	40:00	7.47 pH	14.75 °C	601.42 µS/cm	0.63 mg/L	2.32 NTU	-40.7 mV	30.48 ft	0.29 PSU	160.00 ml/min
2/18/2021 12:54 PM	44:00	7.46 pH	14.75 °C	606.35 µS/cm	0.65 mg/L	2.23 NTU	-42.4 mV	30.93 ft	0.30 PSU	160.00 ml/min
2/18/2021 12:58 PM	48:00	7.47 pH	14.85 °C	607.33 µS/cm	0.67 mg/L	2.10 NTU	-44.0 mV	31.31 ft	0.30 PSU	160.00 ml/min
2/18/2021 1:02 PM	52:00	7.47 pH	14.93 °C	600.56 µS/cm	0.67 mg/L	2.09 NTU	-45.3 mV	31.69 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:06 PM	56:00	7.47 pH	14.93 °C	605.27 µS/cm	0.69 mg/L	2.03 NTU	-46.6 mV	32.15 ft	0.30 PSU	160.00 ml/min

2/18/2021 1:10 PM	01:00:00	7.47 pH	14.97 °C	601.29 µS/cm	0.68 mg/L	1.91 NTU	-48.2 mV	32.54 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:14 PM	01:04:00	7.47 pH	15.06 °C	603.03 µS/cm	0.68 mg/L	1.79 NTU	-48.9 mV	32.87 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:18 PM	01:08:00	7.47 pH	15.09 °C	601.30 µS/cm	0.68 mg/L	1.84 NTU	-50.0 mV	33.17 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:22 PM	01:12:00	7.48 pH	15.02 °C	602.04 µS/cm	0.69 mg/L	1.71 NTU	-51.1 mV	33.46 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:26 PM	01:16:00	7.48 pH	15.14 °C	601.71 µS/cm	0.69 mg/L	1.59 NTU	-52.5 mV	33.84 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:30 PM	01:20:00	7.48 pH	14.93 °C	601.11 µS/cm	0.69 mg/L	1.63 NTU	-52.4 mV	34.10 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:34 PM	01:24:00	7.48 pH	15.04 °C	603.05 µS/cm	0.68 mg/L	1.53 NTU	-54.2 mV	34.46 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:38 PM	01:28:00	7.48 pH	15.20 °C	601.63 µS/cm	0.69 mg/L	1.56 NTU	-55.0 mV	34.83 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:42 PM	01:32:00	7.48 pH	15.37 °C	598.18 µS/cm	0.69 mg/L	1.46 NTU	-54.0 mV	35.28 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:46 PM	01:36:00	7.48 pH	15.25 °C	597.11 µS/cm	0.70 mg/L	1.28 NTU	-52.6 mV	35.64 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:50 PM	01:40:00	7.48 pH	15.19 °C	597.38 µS/cm	0.70 mg/L	1.28 NTU	-52.5 mV	35.97 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:54 PM	01:44:00	7.48 pH	15.20 °C	596.89 µS/cm	0.71 mg/L	1.27 NTU	-53.4 mV	36.29 ft	0.29 PSU	160.00 ml/min
2/18/2021 1:58 PM	01:48:00	7.48 pH	15.13 °C	596.08 µS/cm	0.71 mg/L	1.23 NTU	-54.3 mV	36.59 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:02 PM	01:52:00	7.49 pH	15.19 °C	596.37 µS/cm	0.72 mg/L	1.13 NTU	-56.0 mV	36.86 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:06 PM	01:56:00	7.49 pH	15.17 °C	596.31 µS/cm	0.73 mg/L	1.06 NTU	-57.0 mV	37.14 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:10 PM	02:00:00	7.49 pH	15.20 °C	595.34 µS/cm	0.74 mg/L	1.04 NTU	-58.7 mV	37.39 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:14 PM	02:04:00	7.49 pH	15.10 °C	594.19 µS/cm	0.75 mg/L	0.99 NTU	-57.6 mV	37.64 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:18 PM	02:08:00	7.49 pH	14.99 °C	595.00 µS/cm	0.76 mg/L	0.99 NTU	-58.8 mV	37.93 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:22 PM	02:12:00	7.49 pH	15.18 °C	593.48 µS/cm	0.76 mg/L	0.97 NTU	-59.6 mV	38.43 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:26 PM	02:16:00	7.48 pH	15.47 °C	594.67 µS/cm	0.83 mg/L	0.96 NTU	-56.6 mV	38.97 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:30 PM	02:20:00	7.48 pH	15.62 °C	591.96 µS/cm	0.97 mg/L	0.95 NTU	-53.9 mV	39.74 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:34 PM	02:24:00	7.48 pH	15.56 °C	590.84 µS/cm	1.13 mg/L	0.93 NTU	-51.8 mV	40.25 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:38 PM	02:28:00	7.48 pH	15.47 °C	591.08 µS/cm	1.24 mg/L	1.01 NTU	-51.0 mV	40.81 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:42 PM	02:32:00	7.49 pH	15.47 °C	587.72 µS/cm	1.28 mg/L	1.15 NTU	-51.2 mV	41.21 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:46 PM	02:36:00	7.49 pH	15.29 °C	590.69 µS/cm	1.28 mg/L	0.84 NTU	-53.0 mV	41.61 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:50 PM	02:40:00	7.50 pH	15.25 °C	590.86 µS/cm	1.28 mg/L	0.85 NTU	-54.5 mV	42.05 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:54 PM	02:44:00	7.50 pH	15.07 °C	589.43 µS/cm	1.29 mg/L	0.84 NTU	-55.3 mV	42.34 ft	0.29 PSU	160.00 ml/min
2/18/2021 2:58 PM	02:48:00	7.50 pH	15.07 °C	593.04 µS/cm	1.29 mg/L	0.84 NTU	-56.6 mV	42.69 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:02 PM	02:52:00	7.50 pH	15.11 °C	590.80 µS/cm	1.30 mg/L	0.81 NTU	-57.5 mV	43.06 ft	0.29 PSU	160.00 ml/min

2/18/2021 3:06 PM	02:56:00	7.51 pH	15.26 °C	588.56 µS/cm	1.30 mg/L	0.79 NTU	-57.7 mV	43.44 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:10 PM	03:00:00	7.51 pH	15.24 °C	589.00 µS/cm	1.30 mg/L	0.78 NTU	-58.5 mV	43.75 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:14 PM	03:04:00	7.51 pH	15.37 °C	587.96 µS/cm	1.29 mg/L	0.73 NTU	-59.6 mV	44.10 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:18 PM	03:08:00	7.51 pH	15.30 °C	588.31 µS/cm	1.29 mg/L	0.81 NTU	-60.2 mV	44.37 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:22 PM	03:12:00	7.52 pH	15.21 °C	585.58 µS/cm	1.26 mg/L	0.73 NTU	-60.4 mV	44.81 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:26 PM	03:16:00	7.51 pH	15.06 °C	589.37 µS/cm	1.26 mg/L	0.70 NTU	-61.2 mV	44.92 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:30 PM	03:20:00	7.52 pH	15.06 °C	586.24 µS/cm	1.23 mg/L	0.71 NTU	-61.0 mV	45.20 ft	0.29 PSU	160.00 ml/min
2/18/2021 3:34 PM	03:24:00	7.51 pH	14.75 °C	589.37 µS/cm	1.25 mg/L	0.64 NTU	-61.3 mV	45.45 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:38 PM	03:28:00	7.53 pH	15.00 °C	584.27 µS/cm	1.10 mg/L	0.65 NTU	-64.6 mV	45.63 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:42 PM	03:32:00	7.53 pH	14.84 °C	585.06 µS/cm	1.15 mg/L	0.63 NTU	-63.0 mV	45.75 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:46 PM	03:36:00	7.53 pH	14.61 °C	585.98 µS/cm	1.07 mg/L	0.57 NTU	-65.3 mV	45.84 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:50 PM	03:40:00	7.53 pH	14.66 °C	588.76 µS/cm	0.93 mg/L	0.56 NTU	-68.8 mV	45.96 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:54 PM	03:44:00	7.53 pH	15.02 °C	587.30 µS/cm	0.83 mg/L	0.54 NTU	-72.1 mV	46.20 ft	0.29 PSU	120.00 ml/min
2/18/2021 3:58 PM	03:48:00	7.53 pH	15.07 °C	587.00 µS/cm	0.92 mg/L	0.61 NTU	-69.8 mV	46.38 ft	0.29 PSU	120.00 ml/min
2/18/2021 4:02 PM	03:52:00	7.53 pH	14.96 °C	585.55 µS/cm	0.97 mg/L	0.73 NTU	-69.0 mV	46.54 ft	0.29 PSU	120.00 ml/min
2/18/2021 4:06 PM	03:56:00	7.53 pH	15.01 °C	583.71 µS/cm	0.98 mg/L	0.71 NTU	-67.7 mV	46.72 ft	0.28 PSU	120.00 ml/min
2/18/2021 4:10 PM	04:00:00	7.53 pH	14.84 °C	582.91 µS/cm	0.98 mg/L	0.55 NTU	-66.7 mV	46.86 ft	0.28 PSU	120.00 ml/min
2/18/2021 4:14 PM	04:04:00	7.53 pH	15.10 °C	584.51 µS/cm	0.92 mg/L	0.49 NTU	-70.1 mV	47.06 ft	0.29 PSU	120.00 ml/min
2/18/2021 4:18 PM	04:08:00	7.53 pH	15.04 °C	582.44 µS/cm	0.97 mg/L	0.57 NTU	-69.1 mV	47.20 ft	0.28 PSU	120.00 ml/min
2/18/2021 4:22 PM	04:12:00	7.54 pH	15.02 °C	584.26 µS/cm	0.98 mg/L	0.54 NTU	-69.2 mV	47.35 ft	0.29 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWC-10	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/19/2021 10:48:38 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.28 ft Total Depth: 78.28 ft Initial Depth to Water: 31.17 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 73.28 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/19/2021 10:48 AM	00:00	6.88 pH	13.57 °C	1,186.5 µS/cm	2.33 mg/L	3.99 NTU	112.0 mV	31.56 ft	0.59 PSU	140.00 ml/min
2/19/2021 10:52 AM	04:00	6.95 pH	14.66 °C	1,158.0 µS/cm	2.11 mg/L	5.35 NTU	82.9 mV	31.57 ft	0.58 PSU	140.00 ml/min
2/19/2021 10:56 AM	08:00	6.98 pH	15.02 °C	1,164.3 µS/cm	2.08 mg/L	5.32 NTU	69.4 mV	31.59 ft	0.58 PSU	140.00 ml/min
2/19/2021 11:00 AM	12:00	6.99 pH	15.21 °C	1,161.0 µS/cm	2.05 mg/L	4.47 NTU	61.7 mV	31.61 ft	0.58 PSU	140.00 ml/min
2/19/2021 11:04 AM	16:00	6.99 pH	15.15 °C	1,161.9 µS/cm	2.03 mg/L	4.17 NTU	55.4 mV	31.63 ft	0.58 PSU	140.00 ml/min
2/19/2021 11:08 AM	20:00	6.99 pH	15.29 °C	1,170.3 µS/cm	2.03 mg/L	4.15 NTU	50.9 mV	31.64 ft	0.59 PSU	140.00 ml/min
2/19/2021 11:12 AM	24:00	7.00 pH	15.51 °C	1,168.1 µS/cm	2.01 mg/L	3.54 NTU	47.3 mV	31.65 ft	0.59 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-12	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 10:38:55 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

<p>Location Name: BGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89.46 ft Total Depth: 99.46 ft Initial Depth to Water: 69.84 ft</p>	<p>Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 94.46 ft Estimated Total Volume Pumped: 3920 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.01 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 789301</p>
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Test Notes:

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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 10:38 AM	00:00	7.14 pH	14.84 °C	1,064.6 µS/cm	2.67 mg/L	1.31 NTU	5.7 mV	69.84 ft	0.53 PSU	140.00 ml/min
2/18/2021 10:42 AM	04:00	7.14 pH	15.12 °C	1,001.8 µS/cm	1.12 mg/L	1.31 NTU	25.5 mV	69.85 ft	0.50 PSU	140.00 ml/min
2/18/2021 10:46 AM	08:00	7.15 pH	15.27 °C	991.70 µS/cm	0.73 mg/L	1.13 NTU	36.3 mV	69.85 ft	0.49 PSU	140.00 ml/min
2/18/2021 10:50 AM	12:00	7.15 pH	15.30 °C	992.56 µS/cm	0.58 mg/L	1.49 NTU	40.9 mV	69.85 ft	0.49 PSU	140.00 ml/min
2/18/2021 10:54 AM	16:00	7.15 pH	15.42 °C	985.74 µS/cm	0.51 mg/L	1.05 NTU	43.5 mV	69.85 ft	0.49 PSU	140.00 ml/min
2/18/2021 10:58 AM	20:00	7.15 pH	15.28 °C	973.32 µS/cm	0.48 mg/L	1.32 NTU	44.9 mV	69.85 ft	0.48 PSU	140.00 ml/min
2/18/2021 11:02 AM	24:00	7.14 pH	15.39 °C	960.55 µS/cm	0.48 mg/L	1.28 NTU	45.2 mV	69.85 ft	0.48 PSU	140.00 ml/min
2/18/2021 11:06 AM	28:00	7.14 pH	15.35 °C	951.87 µS/cm	0.47 mg/L	1.18 NTU	45.3 mV	69.85 ft	0.47 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-14A	Metals, Inorganics, Radium
DUP-2	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 12:14:11 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

<p>Location Name: BGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.87 ft Total Depth: 48.87 ft Initial Depth to Water: 11.43 ft</p>	<p>Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 43.87 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.11 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 789301</p>
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 12:14 PM	00:00	6.68 pH	14.35 °C	1,024.7 µS/cm	1.09 mg/L	1.36 NTU	51.6 mV	11.54 ft	0.51 PSU	150.00 ml/min
2/18/2021 12:18 PM	04:00	6.66 pH	14.85 °C	1,015.9 µS/cm	0.48 mg/L	1.06 NTU	50.9 mV	11.54 ft	0.51 PSU	150.00 ml/min
2/18/2021 12:22 PM	08:00	6.66 pH	15.00 °C	1,014.6 µS/cm	0.38 mg/L	0.93 NTU	50.6 mV	11.54 ft	0.50 PSU	150.00 ml/min
2/18/2021 12:26 PM	12:00	6.67 pH	15.17 °C	1,016.3 µS/cm	0.38 mg/L	0.94 NTU	50.2 mV	11.54 ft	0.51 PSU	150.00 ml/min
2/18/2021 12:30 PM	16:00	6.66 pH	15.03 °C	1,015.4 µS/cm	0.35 mg/L	0.87 NTU	49.8 mV	11.54 ft	0.51 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-16	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 1:17:01 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.39 ft Total Depth: 68.39 ft Initial Depth to Water: 10.07 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 63.39 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 1:17 PM	00:00	7.33 pH	14.04 °C	678.07 µS/cm	1.30 mg/L	1.14 NTU	32.3 mV	10.10 ft	0.33 PSU	170.00 ml/min
2/18/2021 1:21 PM	04:00	7.33 pH	14.58 °C	650.47 µS/cm	0.57 mg/L	0.89 NTU	33.9 mV	10.10 ft	0.32 PSU	170.00 ml/min
2/18/2021 1:25 PM	08:00	7.33 pH	14.81 °C	644.27 µS/cm	0.41 mg/L	0.96 NTU	34.9 mV	10.10 ft	0.32 PSU	170.00 ml/min
2/18/2021 1:29 PM	12:00	7.33 pH	14.87 °C	640.73 µS/cm	0.34 mg/L	1.12 NTU	35.1 mV	10.10 ft	0.31 PSU	170.00 ml/min
2/18/2021 1:33 PM	16:00	7.33 pH	14.78 °C	638.89 µS/cm	0.28 mg/L	1.08 NTU	35.2 mV	10.10 ft	0.31 PSU	170.00 ml/min
2/18/2021 1:37 PM	20:00	7.33 pH	15.08 °C	637.10 µS/cm	0.24 mg/L	1.21 NTU	35.2 mV	10.10 ft	0.31 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-17	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 2:40:10 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.95 ft Total Depth: 37.95 ft Initial Depth to Water: 7.35 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 32.95 ft Estimated Total Volume Pumped: 2600 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 2:40 PM	00:00	6.37 pH	13.40 °C	379.98 µS/cm	3.00 mg/L	1.07 NTU	51.5 mV	7.36 ft	0.18 PSU	130.00 ml/min
2/18/2021 2:44 PM	04:00	6.41 pH	13.54 °C	395.05 µS/cm	2.92 mg/L	1.03 NTU	45.5 mV	7.36 ft	0.19 PSU	130.00 ml/min
2/18/2021 2:48 PM	08:00	6.44 pH	13.70 °C	400.78 µS/cm	2.82 mg/L	0.94 NTU	43.8 mV	7.36 ft	0.19 PSU	130.00 ml/min
2/18/2021 2:52 PM	12:00	6.45 pH	13.86 °C	407.30 µS/cm	2.76 mg/L	0.99 NTU	42.4 mV	7.36 ft	0.20 PSU	130.00 ml/min
2/18/2021 2:56 PM	16:00	6.47 pH	13.86 °C	407.62 µS/cm	2.67 mg/L	0.99 NTU	41.8 mV	7.36 ft	0.20 PSU	130.00 ml/min
2/18/2021 3:00 PM	20:00	6.48 pH	13.67 °C	410.48 µS/cm	2.63 mg/L	1.02 NTU	41.4 mV	7.36 ft	0.20 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWC-18	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 4:00:40 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.58 ft Total Depth: 54.58 ft Initial Depth to Water: 9.75 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 49.58 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.32 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/18/2021 4:00 PM	00:00	6.72 pH	12.35 °C	358.94 µS/cm	4.69 mg/L	2.24 NTU	60.4 mV	10.13 ft	0.17 PSU	160.00 ml/min
2/18/2021 4:04 PM	04:00	6.67 pH	13.17 °C	340.14 µS/cm	4.41 mg/L	2.45 NTU	53.2 mV	10.17 ft	0.16 PSU	160.00 ml/min
2/18/2021 4:08 PM	08:00	6.67 pH	13.40 °C	338.72 µS/cm	4.33 mg/L	2.46 NTU	50.7 mV	10.18 ft	0.16 PSU	160.00 ml/min
2/18/2021 4:12 PM	12:00	6.67 pH	13.59 °C	337.25 µS/cm	4.30 mg/L	2.81 NTU	49.2 mV	10.18 ft	0.16 PSU	160.00 ml/min
2/18/2021 4:16 PM	16:00	6.68 pH	12.90 °C	330.40 µS/cm	4.20 mg/L	2.80 NTU	48.5 mV	10.05 ft	0.16 PSU	130.00 ml/min
2/18/2021 4:20 PM	20:00	6.67 pH	12.81 °C	335.20 µS/cm	4.33 mg/L	2.78 NTU	47.5 mV	10.07 ft	0.16 PSU	130.00 ml/min
2/18/2021 4:24 PM	24:00	6.66 pH	13.31 °C	333.75 µS/cm	4.30 mg/L	2.57 NTU	46.9 mV	10.07 ft	0.16 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWC-19	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 3:10:36 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.73 ft Total Depth: 49.73 ft Initial Depth to Water: 10.18 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 44.73 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 2.73 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/18/2021 3:10 PM	00:00	7.29 pH	14.42 °C	2,158.7 µS/cm	1.20 mg/L	0.74 NTU	-80.5 mV	10.18 ft	1.11 PSU	170.00 ml/min
2/18/2021 3:14 PM	04:00	7.31 pH	14.65 °C	2,179.1 µS/cm	0.53 mg/L	0.47 NTU	-53.2 mV	12.91 ft	1.12 PSU	170.00 ml/min
2/18/2021 3:18 PM	08:00	7.33 pH	13.62 °C	2,148.8 µS/cm	0.45 mg/L	0.38 NTU	-45.3 mV	12.91 ft	1.10 PSU	170.00 ml/min
2/18/2021 3:22 PM	12:00	7.34 pH	12.83 °C	2,182.0 µS/cm	0.36 mg/L	0.28 NTU	-44.8 mV	12.91 ft	1.12 PSU	170.00 ml/min
2/18/2021 3:26 PM	16:00	7.35 pH	12.75 °C	2,190.4 µS/cm	0.29 mg/L	0.12 NTU	-46.6 mV	12.91 ft	1.13 PSU	170.00 ml/min
2/18/2021 3:30 PM	20:00	7.35 pH	13.04 °C	2,191.9 µS/cm	0.30 mg/L	0.16 NTU	-47.2 mV	12.91 ft	1.13 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-20	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/19/2021 10:54:08 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.99 ft Total Depth: 52.99 ft Initial Depth to Water: 15.03 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 47.99 ft Estimated Total Volume Pumped: 12600 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/19/2021 10:54 AM	00:00	7.76 pH	10.79 °C	414.68 µS/cm	4.55 mg/L	1.03 NTU	11.4 mV	15.03 ft	0.20 PSU	150.00 ml/min
2/19/2021 10:58 AM	04:00	7.81 pH	12.75 °C	405.48 µS/cm	2.16 mg/L	1.15 NTU	19.4 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 11:02 AM	08:00	7.82 pH	13.70 °C	399.52 µS/cm	1.50 mg/L	2.30 NTU	21.0 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:06 AM	12:00	7.81 pH	14.51 °C	399.25 µS/cm	1.26 mg/L	3.87 NTU	21.7 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:10 AM	16:00	7.79 pH	14.81 °C	403.57 µS/cm	1.19 mg/L	5.14 NTU	22.2 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:14 AM	20:00	7.78 pH	15.06 °C	402.91 µS/cm	1.05 mg/L	6.40 NTU	22.6 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:18 AM	24:00	7.78 pH	15.15 °C	403.74 µS/cm	0.99 mg/L	7.04 NTU	22.6 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:22 AM	28:00	7.78 pH	15.46 °C	402.92 µS/cm	0.92 mg/L	7.04 NTU	22.7 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:26 AM	32:00	7.78 pH	15.20 °C	401.62 µS/cm	0.86 mg/L	7.47 NTU	22.7 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:30 AM	36:00	7.80 pH	14.29 °C	390.21 µS/cm	0.87 mg/L	7.22 NTU	23.7 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:34 AM	40:00	7.77 pH	14.79 °C	415.90 µS/cm	1.01 mg/L	6.76 NTU	22.9 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 11:38 AM	44:00	7.78 pH	16.67 °C	402.90 µS/cm	1.01 mg/L	5.35 NTU	21.9 mV	15.24 ft	0.19 PSU	150.00 ml/min
2/19/2021 11:42 AM	48:00	7.77 pH	16.77 °C	405.20 µS/cm	0.77 mg/L	7.85 NTU	19.3 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 11:46 AM	52:00	7.77 pH	16.81 °C	408.89 µS/cm	0.69 mg/L	9.35 NTU	16.2 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 11:50 AM	56:00	7.76 pH	17.01 °C	412.82 µS/cm	0.66 mg/L	8.76 NTU	13.4 mV	15.24 ft	0.20 PSU	150.00 ml/min

2/19/2021 11:54 AM	01:00:00	7.76 pH	16.91 °C	414.58 µS/cm	0.63 mg/L	8.54 NTU	11.7 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 11:58 AM	01:04:00	7.76 pH	16.84 °C	418.85 µS/cm	0.62 mg/L	8.21 NTU	10.0 mV	15.24 ft	0.20 PSU	150.00 ml/min
2/19/2021 12:02 PM	01:08:00	7.75 pH	17.03 °C	423.95 µS/cm	0.60 mg/L	6.84 NTU	8.7 mV	15.24 ft	0.21 PSU	150.00 ml/min
2/19/2021 12:06 PM	01:12:00	7.74 pH	16.98 °C	429.45 µS/cm	0.59 mg/L	6.17 NTU	7.8 mV	15.24 ft	0.21 PSU	150.00 ml/min
2/19/2021 12:10 PM	01:16:00	7.72 pH	16.99 °C	436.48 µS/cm	0.58 mg/L	5.46 NTU	7.4 mV	15.24 ft	0.21 PSU	150.00 ml/min
2/19/2021 12:14 PM	01:20:00	7.68 pH	17.18 °C	444.66 µS/cm	0.57 mg/L	4.68 NTU	8.1 mV	15.24 ft	0.22 PSU	150.00 ml/min
2/19/2021 12:18 PM	01:24:00	7.64 pH	17.09 °C	453.20 µS/cm	0.56 mg/L	4.83 NTU	9.2 mV	15.24 ft	0.22 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-21	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/19/2021 12:54:23 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.05 ft Total Depth: 43.05 ft Initial Depth to Water: 22.68 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 38.05 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/19/2021 12:54 PM	00:00	6.83 pH	16.59 °C	4,251.6 µS/cm	1.55 mg/L	2.16 NTU	28.3 mV	22.68 ft	2.28 PSU	160.00 ml/min
2/19/2021 12:58 PM	04:00	6.85 pH	15.84 °C	4,260.1 µS/cm	0.87 mg/L	2.08 NTU	27.3 mV	22.79 ft	2.28 PSU	160.00 ml/min
2/19/2021 1:02 PM	08:00	6.87 pH	15.56 °C	4,265.0 µS/cm	0.66 mg/L	2.94 NTU	27.7 mV	22.79 ft	2.28 PSU	160.00 ml/min
2/19/2021 1:06 PM	12:00	6.88 pH	15.56 °C	4,265.2 µS/cm	0.60 mg/L	3.12 NTU	28.3 mV	22.79 ft	2.28 PSU	160.00 ml/min
2/19/2021 1:10 PM	16:00	6.89 pH	15.60 °C	4,265.5 µS/cm	0.51 mg/L	2.44 NTU	28.3 mV	22.79 ft	2.28 PSU	160.00 ml/min
2/19/2021 1:14 PM	20:00	6.89 pH	15.69 °C	4,273.9 µS/cm	0.47 mg/L	1.73 NTU	28.1 mV	22.79 ft	2.29 PSU	160.00 ml/min
2/19/2021 1:18 PM	24:00	6.90 pH	15.61 °C	4,271.2 µS/cm	0.42 mg/L	1.46 NTU	28.1 mV	22.79 ft	2.29 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-22	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/19/2021 1:11:50 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 40.95 ft Total Depth: 50.95 ft Initial Depth to Water: 29.42 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 45.95 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.96 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/19/2021 1:11 PM	00:00	7.15 pH	16.12 °C	4,245.3 µS/cm	1.91 mg/L	0.98 NTU	-22.4 mV	30.55 ft	2.27 PSU	150.00 ml/min
2/19/2021 1:15 PM	04:00	7.11 pH	16.56 °C	4,196.9 µS/cm	1.21 mg/L	1.80 NTU	-12.9 mV	30.76 ft	2.25 PSU	150.00 ml/min
2/19/2021 1:19 PM	08:00	7.09 pH	16.43 °C	4,175.2 µS/cm	0.86 mg/L	1.37 NTU	-11.6 mV	30.97 ft	2.24 PSU	150.00 ml/min
2/19/2021 1:23 PM	12:00	7.07 pH	16.48 °C	4,248.3 µS/cm	0.72 mg/L	0.86 NTU	-12.8 mV	31.12 ft	2.28 PSU	150.00 ml/min
2/19/2021 1:27 PM	16:00	7.06 pH	16.43 °C	4,311.3 µS/cm	0.61 mg/L	0.63 NTU	-14.6 mV	31.22 ft	2.31 PSU	150.00 ml/min
2/19/2021 1:31 PM	20:00	7.05 pH	16.51 °C	4,381.3 µS/cm	0.54 mg/L	0.58 NTU	-15.3 mV	31.29 ft	2.35 PSU	150.00 ml/min
2/19/2021 1:35 PM	24:00	7.05 pH	16.63 °C	4,399.2 µS/cm	0.43 mg/L	0.38 NTU	-17.4 mV	31.35 ft	2.36 PSU	150.00 ml/min
2/19/2021 1:39 PM	28:00	7.05 pH	16.65 °C	4,452.4 µS/cm	0.36 mg/L	0.23 NTU	-17.2 mV	31.37 ft	2.39 PSU	150.00 ml/min
2/19/2021 1:43 PM	32:00	7.05 pH	16.51 °C	4,490.5 µS/cm	0.31 mg/L	0.20 NTU	-18.0 mV	31.38 ft	2.42 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-23	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/19/2021 11:02:24 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.11 ft Total Depth: 66.11 ft Initial Depth to Water: 12.77 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 61.11 ft Estimated Total Volume Pumped: 9880 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 6.77 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/19/2021 11:02 AM	00:00	6.57 pH	14.08 °C	6,045.6 µS/cm	1.53 mg/L	6.14 NTU	57.9 mV	14.21 ft	3.30 PSU	130.00 ml/min
2/19/2021 11:06 AM	04:00	6.55 pH	14.62 °C	5,724.3 µS/cm	0.91 mg/L	6.85 NTU	58.4 mV	14.56 ft	3.12 PSU	130.00 ml/min
2/19/2021 11:10 AM	08:00	6.60 pH	14.94 °C	5,520.5 µS/cm	0.83 mg/L	7.04 NTU	58.7 mV	15.08 ft	3.00 PSU	130.00 ml/min
2/19/2021 11:14 AM	12:00	6.70 pH	15.30 °C	4,775.9 µS/cm	1.35 mg/L	6.26 NTU	60.7 mV	15.55 ft	2.57 PSU	130.00 ml/min
2/19/2021 11:18 AM	16:00	6.74 pH	15.21 °C	4,302.2 µS/cm	1.51 mg/L	5.37 NTU	59.4 mV	16.00 ft	2.30 PSU	130.00 ml/min
2/19/2021 11:22 AM	20:00	6.74 pH	15.28 °C	4,190.0 µS/cm	1.53 mg/L	4.90 NTU	57.3 mV	16.40 ft	2.24 PSU	130.00 ml/min
2/19/2021 11:26 AM	24:00	6.75 pH	15.12 °C	4,148.9 µS/cm	1.47 mg/L	4.26 NTU	55.6 mV	16.76 ft	2.22 PSU	130.00 ml/min
2/19/2021 11:30 AM	28:00	6.74 pH	15.15 °C	4,185.1 µS/cm	1.42 mg/L	4.32 NTU	53.7 mV	17.10 ft	2.24 PSU	130.00 ml/min
2/19/2021 11:34 AM	32:00	6.73 pH	15.30 °C	4,245.9 µS/cm	1.33 mg/L	3.75 NTU	52.9 mV	17.41 ft	2.27 PSU	130.00 ml/min
2/19/2021 11:38 AM	36:00	6.72 pH	15.39 °C	4,348.0 µS/cm	1.25 mg/L	3.51 NTU	52.2 mV	17.71 ft	2.33 PSU	130.00 ml/min
2/19/2021 11:42 AM	40:00	6.71 pH	15.47 °C	4,423.4 µS/cm	1.20 mg/L	3.22 NTU	51.5 mV	17.96 ft	2.37 PSU	130.00 ml/min
2/19/2021 11:46 AM	44:00	6.70 pH	15.39 °C	4,517.8 µS/cm	1.13 mg/L	3.03 NTU	51.2 mV	18.21 ft	2.43 PSU	130.00 ml/min
2/19/2021 11:50 AM	48:00	6.69 pH	15.71 °C	4,608.7 µS/cm	1.07 mg/L	2.98 NTU	50.8 mV	18.42 ft	2.48 PSU	130.00 ml/min
2/19/2021 11:54 AM	52:00	6.68 pH	16.02 °C	4,698.0 µS/cm	1.03 mg/L	2.14 NTU	50.4 mV	18.64 ft	2.53 PSU	130.00 ml/min
2/19/2021 11:58 AM	56:00	6.68 pH	15.80 °C	4,787.0 µS/cm	0.98 mg/L	2.15 NTU	50.2 mV	18.81 ft	2.58 PSU	130.00 ml/min

2/19/2021 12:02 PM	01:00:00	6.67 pH	16.22 °C	4,879.8 µS/cm	0.96 mg/L	2.15 NTU	49.9 mV	18.98 ft	2.64 PSU	130.00 ml/min
2/19/2021 12:06 PM	01:04:00	6.67 pH	16.07 °C	4,897.5 µS/cm	0.93 mg/L	1.93 NTU	50.0 mV	19.15 ft	2.65 PSU	130.00 ml/min
2/19/2021 12:10 PM	01:08:00	6.67 pH	16.14 °C	4,956.1 µS/cm	0.93 mg/L	1.80 NTU	49.6 mV	19.28 ft	2.68 PSU	130.00 ml/min
2/19/2021 12:14 PM	01:12:00	6.66 pH	16.60 °C	4,997.6 µS/cm	0.91 mg/L	1.52 NTU	49.2 mV	19.41 ft	2.71 PSU	130.00 ml/min
2/19/2021 12:18 PM	01:16:00	6.66 pH	16.34 °C	5,032.9 µS/cm	0.89 mg/L	1.45 NTU	49.5 mV	19.54 ft	2.73 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWC-24	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/23/2021 10:13:50 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.87 ft Total Depth: 57.87 ft Initial Depth to Water: 15.74 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 52.87 ft Estimated Total Volume Pumped: 2600 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 9.79 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 10.5 L

Black organic sediment in water

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/23/2021 10:13 AM	00:00	7.35 pH	17.05 °C	463.76 µS/cm	0.12 mg/L	2.35 NTU	-67.1 mV	25.81 ft	0.23 PSU	130.00 ml/min
2/23/2021 10:17 AM	04:00	7.37 pH	16.76 °C	461.68 µS/cm	0.08 mg/L	2.23 NTU	-65.5 mV	25.74 ft	0.22 PSU	130.00 ml/min
2/23/2021 10:21 AM	08:00	7.40 pH	16.76 °C	458.51 µS/cm	0.10 mg/L	1.86 NTU	-68.2 mV	25.65 ft	0.22 PSU	130.00 ml/min
2/23/2021 10:25 AM	12:00	7.42 pH	16.78 °C	455.90 µS/cm	0.12 mg/L	1.48 NTU	-71.5 mV	25.59 ft	0.22 PSU	130.00 ml/min
2/23/2021 10:29 AM	16:00	7.43 pH	16.78 °C	453.65 µS/cm	0.14 mg/L	1.83 NTU	-74.4 mV	25.55 ft	0.22 PSU	130.00 ml/min
2/23/2021 10:33 AM	20:00	7.44 pH	16.91 °C	453.06 µS/cm	0.15 mg/L	1.52 NTU	-77.0 mV	25.53 ft	0.22 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWC-25	Metals, Inorganics, Radium
DUP-4	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/16/2021 11:42:08 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWA-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 m Top of Screen: 89.03 ft Total Depth: 99.03 ft Initial Depth to Water: 48.04 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 94.03 ft Estimated Total Volume Pumped: 6240 ml Flow Cell Volume: 90 ml Final Flow Rate: 260 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/16/2021 11:42 AM	00:00	7.56 pH	11.28 °C	210.62 µS/cm	8.00 mg/L	2.01 NTU	85.2 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 11:46 AM	04:00	7.82 pH	11.80 °C	209.09 µS/cm	8.17 mg/L	1.99 NTU	71.1 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 11:50 AM	08:00	7.89 pH	11.81 °C	206.86 µS/cm	8.26 mg/L	2.24 NTU	63.3 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 11:54 AM	12:00	7.94 pH	11.23 °C	203.12 µS/cm	8.32 mg/L	1.78 NTU	58.9 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 11:58 AM	16:00	7.96 pH	10.91 °C	202.55 µS/cm	8.55 mg/L	1.48 NTU	55.5 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 12:02 PM	20:00	7.98 pH	10.90 °C	202.06 µS/cm	8.65 mg/L	0.76 NTU	52.7 mV	48.04 ft	0.10 PSU	260.00 ml/min
2/16/2021 12:06 PM	24:00	8.00 pH	10.82 °C	200.60 µS/cm	8.77 mg/L	0.70 NTU	50.2 mV	48.04 ft	0.09 PSU	260.00 ml/min

Samples

Sample ID:	Description:
BGWA-29	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 3/8/2021 10:15:30 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-30 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.98ft Total Depth: 59.98 ft Initial Depth to Water: 23.7 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.98 ft Estimated Total Volume Pumped: 10120 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/8/2021 10:15 AM	00:00	7.42 pH	17.45 °C	674.53 µS/cm	5.11 mg/L	2.75 NTU	75.6 mV	23.70 ft	0.33 PSU	110.00 ml/min
3/8/2021 10:19 AM	04:00	7.43 pH	17.82 °C	656.13 µS/cm	5.08 mg/L	2.35 NTU	74.2 mV	23.70 ft	0.32 PSU	110.00 ml/min
3/8/2021 10:23 AM	08:00	7.44 pH	18.23 °C	647.00 µS/cm	5.07 mg/L	2.63 NTU	74.7 mV	23.70 ft	0.32 PSU	110.00 ml/min
3/8/2021 10:27 AM	12:00	7.44 pH	18.50 °C	634.39 µS/cm	4.99 mg/L	3.25 NTU	71.8 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 10:31 AM	16:00	7.45 pH	18.58 °C	627.70 µS/cm	4.98 mg/L	3.50 NTU	69.1 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 10:35 AM	20:00	7.45 pH	18.65 °C	624.32 µS/cm	4.97 mg/L	3.68 NTU	67.1 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 10:39 AM	24:00	7.45 pH	18.71 °C	621.60 µS/cm	4.96 mg/L	4.43 NTU	62.5 mV	23.70 ft	0.30 PSU	110.00 ml/min
3/8/2021 10:43 AM	28:00	7.46 pH	18.66 °C	619.62 µS/cm	4.94 mg/L	5.48 NTU	59.0 mV	23.70 ft	0.30 PSU	110.00 ml/min
3/8/2021 10:47 AM	32:00	7.45 pH	18.59 °C	621.21 µS/cm	4.94 mg/L	7.42 NTU	58.0 mV	23.70 ft	0.30 PSU	110.00 ml/min
3/8/2021 10:51 AM	36:00	7.46 pH	18.55 °C	622.82 µS/cm	4.95 mg/L	8.45 NTU	57.0 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 10:55 AM	40:00	7.46 pH	18.70 °C	623.50 µS/cm	4.92 mg/L	9.35 NTU	55.6 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 10:59 AM	44:00	7.45 pH	18.98 °C	626.54 µS/cm	4.93 mg/L	9.70 NTU	54.6 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 11:03 AM	48:00	7.45 pH	19.46 °C	623.41 µS/cm	4.85 mg/L	10.41 NTU	52.4 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 11:07 AM	52:00	7.45 pH	19.72 °C	624.47 µS/cm	4.78 mg/L	11.09 NTU	49.3 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 11:11 AM	56:00	7.45 pH	19.85 °C	628.91 µS/cm	4.71 mg/L	10.03 NTU	46.4 mV	23.70 ft	0.31 PSU	110.00 ml/min

3/8/2021 11:15 AM	01:00:00	7.45 pH	19.93 °C	635.45 µS/cm	4.68 mg/L	9.50 NTU	45.3 mV	23.70 ft	0.31 PSU	110.00 ml/min
3/8/2021 11:19 AM	01:04:00	7.45 pH	20.08 °C	646.89 µS/cm	4.64 mg/L	8.62 NTU	44.6 mV	23.70 ft	0.32 PSU	110.00 ml/min
3/8/2021 11:23 AM	01:08:00	7.45 pH	20.17 °C	658.43 µS/cm	4.58 mg/L	7.56 NTU	43.3 mV	23.70 ft	0.32 PSU	110.00 ml/min
3/8/2021 11:27 AM	01:12:00	7.45 pH	20.26 °C	670.36 µS/cm	4.53 mg/L	7.17 NTU	41.1 mV	23.70 ft	0.33 PSU	110.00 ml/min
3/8/2021 11:31 AM	01:16:00	7.45 pH	20.30 °C	680.64 µS/cm	4.46 mg/L	5.89 NTU	40.0 mV	23.70 ft	0.33 PSU	110.00 ml/min
3/8/2021 11:35 AM	01:20:00	7.45 pH	20.33 °C	692.29 µS/cm	4.44 mg/L	5.35 NTU	38.9 mV	23.70 ft	0.34 PSU	110.00 ml/min
3/8/2021 11:39 AM	01:24:00	7.45 pH	20.39 °C	702.92 µS/cm	4.40 mg/L	4.42 NTU	37.8 mV	23.70 ft	0.35 PSU	110.00 ml/min
3/8/2021 11:43 AM	01:28:00	7.44 pH	20.48 °C	711.29 µS/cm	4.36 mg/L	4.30 NTU	36.8 mV	23.70 ft	0.35 PSU	110.00 ml/min
3/8/2021 11:47 AM	01:32:00	7.44 pH	20.68 °C	720.52 µS/cm	4.35 mg/L	4.04 NTU	35.9 mV	23.70 ft	0.36 PSU	110.00 ml/min

Samples

Sample ID:	Description:
BGWC-30	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 2:16:43 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-31 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.7 ft Total Depth: 49.7 ft Initial Depth to Water: 13.55 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 44.7 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/22/2021 2:16 PM	00:00	7.16 pH	19.67 °C	673.02 µS/cm	0.90 mg/L	3.05 NTU	-24.6 mV	13.70 ft	0.33 PSU	150.00 ml/min
2/22/2021 2:20 PM	04:00	7.17 pH	17.40 °C	701.63 µS/cm	0.44 mg/L	3.53 NTU	-54.8 mV	13.70 ft	0.35 PSU	150.00 ml/min
2/22/2021 2:24 PM	08:00	7.18 pH	17.38 °C	702.51 µS/cm	0.41 mg/L	2.91 NTU	-66.7 mV	13.70 ft	0.35 PSU	150.00 ml/min
2/22/2021 2:28 PM	12:00	7.19 pH	17.43 °C	701.98 µS/cm	0.39 mg/L	3.37 NTU	-71.1 mV	13.70 ft	0.35 PSU	150.00 ml/min
2/22/2021 2:32 PM	16:00	7.20 pH	17.15 °C	702.94 µS/cm	0.37 mg/L	3.07 NTU	-72.2 mV	13.70 ft	0.35 PSU	150.00 ml/min
2/22/2021 2:36 PM	20:00	7.21 pH	17.17 °C	704.79 µS/cm	0.36 mg/L	3.02 NTU	-72.8 mV	13.71 ft	0.35 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-31	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 2:29:23 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.22 ft Total Depth: 51.22 ft Initial Depth to Water: 34.25 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 46.22 ft Estimated Total Volume Pumped: 13080 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 9.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

DTW dropped below top of screen. Full evac performed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/22/2021 2:29 PM	00:00	6.97 pH	17.54 °C	1,960.0 µS/cm	1.74 mg/L	4.12 NTU	35.0 mV	36.45 ft	1.01 PSU	120.00 ml/min
2/22/2021 2:33 PM	04:00	6.99 pH	17.40 °C	1,918.5 µS/cm	1.44 mg/L	2.93 NTU	35.8 mV	36.89 ft	0.98 PSU	120.00 ml/min
2/22/2021 2:37 PM	08:00	7.00 pH	17.32 °C	1,897.5 µS/cm	1.33 mg/L	1.75 NTU	36.5 mV	37.30 ft	0.97 PSU	120.00 ml/min
2/22/2021 2:41 PM	12:00	7.01 pH	17.23 °C	1,890.3 µS/cm	1.26 mg/L	1.01 NTU	36.8 mV	37.76 ft	0.97 PSU	105.00 ml/min
2/22/2021 2:45 PM	16:00	7.01 pH	17.28 °C	1,889.0 µS/cm	1.22 mg/L	0.58 NTU	36.9 mV	38.10 ft	0.97 PSU	105.00 ml/min
2/22/2021 2:49 PM	20:00	7.01 pH	17.14 °C	1,897.7 µS/cm	1.17 mg/L	0.29 NTU	36.3 mV	38.18 ft	0.97 PSU	105.00 ml/min
2/22/2021 2:53 PM	24:00	7.02 pH	17.01 °C	1,918.0 µS/cm	1.08 mg/L	0.19 NTU	36.6 mV	38.23 ft	0.98 PSU	105.00 ml/min
2/22/2021 2:57 PM	28:00	7.02 pH	16.96 °C	1,946.4 µS/cm	0.99 mg/L	0.03 NTU	35.7 mV	38.08 ft	1.00 PSU	105.00 ml/min
2/22/2021 3:01 PM	32:00	7.02 pH	17.23 °C	1,974.1 µS/cm	0.87 mg/L	0.01 NTU	33.9 mV	38.14 ft	1.01 PSU	105.00 ml/min
2/22/2021 3:05 PM	36:00	7.03 pH	17.30 °C	1,991.6 µS/cm	0.81 mg/L	0.01 NTU	32.2 mV	38.28 ft	1.02 PSU	105.00 ml/min
2/22/2021 3:09 PM	40:00	7.03 pH	17.10 °C	2,004.0 µS/cm	0.81 mg/L	0.06 NTU	30.5 mV	38.42 ft	1.03 PSU	105.00 ml/min
2/22/2021 3:13 PM	44:00	7.03 pH	17.09 °C	2,007.8 µS/cm	0.80 mg/L	0.07 NTU	29.9 mV	38.61 ft	1.03 PSU	105.00 ml/min
2/22/2021 3:17 PM	48:00	7.03 pH	17.09 °C	2,018.5 µS/cm	0.79 mg/L	0.07 NTU	29.4 mV	38.82 ft	1.04 PSU	105.00 ml/min
2/22/2021 3:21 PM	52:00	7.03 pH	17.18 °C	2,020.6 µS/cm	0.79 mg/L	0.03 NTU	28.3 mV	39.00 ft	1.04 PSU	105.00 ml/min
2/22/2021 3:25 PM	56:00	7.03 pH	17.36 °C	2,025.1 µS/cm	0.79 mg/L	0.06 NTU	27.2 mV	39.18 ft	1.04 PSU	105.00 ml/min

2/22/2021 3:29 PM	01:00:00	7.03 pH	17.45 °C	2,023.5 µS/cm	0.81 mg/L	0.09 NTU	26.4 mV	39.35 ft	1.04 PSU	105.00 ml/min
2/22/2021 3:33 PM	01:04:00	7.02 pH	17.50 °C	2,024.8 µS/cm	0.83 mg/L	0.06 NTU	25.9 mV	39.52 ft	1.04 PSU	105.00 ml/min
2/22/2021 3:37 PM	01:08:00	7.02 pH	17.37 °C	2,036.2 µS/cm	0.85 mg/L	0.11 NTU	25.2 mV	39.69 ft	1.05 PSU	105.00 ml/min
2/22/2021 3:41 PM	01:12:00	7.02 pH	17.36 °C	2,049.6 µS/cm	0.85 mg/L	0.08 NTU	24.6 mV	40.08 ft	1.06 PSU	105.00 ml/min
2/22/2021 3:45 PM	01:16:00	7.02 pH	17.42 °C	2,067.9 µS/cm	0.84 mg/L	0.04 NTU	24.1 mV	40.35 ft	1.07 PSU	105.00 ml/min
2/22/2021 3:49 PM	01:20:00	7.02 pH	17.28 °C	2,106.3 µS/cm	0.81 mg/L	1.63 NTU	23.8 mV	40.70 ft	1.09 PSU	105.00 ml/min
2/22/2021 3:53 PM	01:24:00	7.01 pH	17.50 °C	2,147.7 µS/cm	0.82 mg/L	1.15 NTU	23.6 mV	41.05 ft	1.11 PSU	105.00 ml/min
2/22/2021 3:57 PM	01:28:00	7.01 pH	17.63 °C	2,195.1 µS/cm	0.86 mg/L	0.71 NTU	23.7 mV	41.35 ft	1.13 PSU	105.00 ml/min
2/22/2021 4:01 PM	01:32:00	7.00 pH	17.67 °C	2,237.3 µS/cm	0.85 mg/L	0.27 NTU	23.7 mV	41.65 ft	1.16 PSU	105.00 ml/min
2/22/2021 4:05 PM	01:36:00	7.00 pH	17.77 °C	2,317.1 µS/cm	0.85 mg/L	0.17 NTU	23.6 mV	42.00 ft	1.20 PSU	105.00 ml/min
2/22/2021 4:09 PM	01:40:00	7.00 pH	17.85 °C	2,354.8 µS/cm	0.77 mg/L	0.08 NTU	23.4 mV	42.35 ft	1.22 PSU	150.00 ml/min
2/22/2021 4:13 PM	01:44:00	6.99 pH	17.77 °C	2,404.2 µS/cm	0.94 mg/L	0.10 NTU	23.6 mV	42.70 ft	1.25 PSU	150.00 ml/min
2/22/2021 4:17 PM	01:48:00	7.00 pH	17.54 °C	2,391.8 µS/cm	1.07 mg/L	0.41 NTU	20.9 mV	43.05 ft	1.24 PSU	150.00 ml/min
2/22/2021 4:21 PM	01:52:00	7.04 pH	17.56 °C	2,160.7 µS/cm	1.06 mg/L	0.45 NTU	14.3 mV	43.40 ft	1.12 PSU	150.00 ml/min
2/22/2021 4:25 PM	01:56:00	7.06 pH	17.45 °C	2,013.4 µS/cm	1.07 mg/L	0.40 NTU	14.8 mV	44.00 ft	1.04 PSU	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/17/2021 9:52:24 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWA-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.84 ft Total Depth: 80.84 ft Initial Depth to Water: 73.33 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 79.84 ft Estimated Total Volume Pumped: 1920 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.83 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 0.5 L

Full evac performed. Well requires 48 hour recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/17/2021 9:52 AM	00:00	7.58 pH	11.23 °C	371.14 µS/cm	7.05 mg/L	3.24 NTU	46.5 mV	73.33 ft	0.18 PSU	120.00 ml/min
2/17/2021 9:56 AM	04:00	7.62 pH	12.12 °C	370.25 µS/cm	6.92 mg/L	2.92 NTU	35.4 mV	74.37 ft	0.18 PSU	120.00 ml/min
2/17/2021 10:00 AM	08:00	7.60 pH	12.12 °C	369.08 µS/cm	7.19 mg/L	2.78 NTU	31.9 mV	74.62 ft	0.18 PSU	120.00 ml/min
2/17/2021 10:04 AM	12:00	7.61 pH	12.27 °C	374.95 µS/cm	7.42 mg/L	2.96 NTU	29.0 mV	74.90 ft	0.18 PSU	120.00 ml/min
2/17/2021 10:08 AM	16:00	7.63 pH	12.21 °C	378.61 µS/cm	7.60 mg/L	3.01 NTU	27.4 mV	75.16 ft	0.18 PSU	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/19/2021 9:33:08 AM

Project: Plant Bowen AP February 2021 AP Scan (3)

Operator Name: Joe Booth

Location Name: BGWC-34D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.75 ft Total Depth: 79.75 ft Initial Depth to Water: 10.07 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 74.75 ft Estimated Total Volume Pumped: 3920 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 2.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/19/2021 9:33 AM	00:00	7.16 pH	8.86 °C	810.69 µS/cm	0.70 mg/L	4.59 NTU	-49.7 mV	10.07 ft	0.40 PSU	140.00 ml/min
2/19/2021 9:37 AM	04:00	7.16 pH	9.02 °C	850.30 µS/cm	0.40 mg/L	4.12 NTU	-34.2 mV	11.05 ft	0.42 PSU	140.00 ml/min
2/19/2021 9:41 AM	08:00	7.18 pH	9.28 °C	865.88 µS/cm	0.29 mg/L	1.59 NTU	-34.5 mV	11.28 ft	0.42 PSU	140.00 ml/min
2/19/2021 9:45 AM	12:00	7.20 pH	9.21 °C	872.17 µS/cm	0.23 mg/L	1.22 NTU	-36.0 mV	11.59 ft	0.43 PSU	140.00 ml/min
2/19/2021 9:49 AM	16:00	7.22 pH	9.65 °C	872.32 µS/cm	0.20 mg/L	0.79 NTU	-37.7 mV	12.01 ft	0.43 PSU	140.00 ml/min
2/19/2021 9:53 AM	20:00	7.24 pH	9.70 °C	872.12 µS/cm	0.18 mg/L	0.88 NTU	-37.3 mV	12.28 ft	0.43 PSU	140.00 ml/min
2/19/2021 9:57 AM	24:00	7.25 pH	9.84 °C	874.84 µS/cm	0.19 mg/L	0.62 NTU	-40.4 mV	12.35 ft	0.43 PSU	140.00 ml/min
2/19/2021 10:01 AM	28:00	7.26 pH	10.22 °C	875.80 µS/cm	0.19 mg/L	0.45 NTU	-40.6 mV	12.47 ft	0.43 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-34D	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 2:30:42 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-35D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.94 ft Total Depth: 80.94 ft Initial Depth to Water: 27.67 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 75.94 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.41 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/22/2021 2:30 PM	00:00	6.85 pH	18.77 °C	3,180.0 µS/cm	4.57 mg/L	2.98 NTU	-15.2 mV	27.67 ft	1.68 PSU	160.00 ml/min
2/22/2021 2:34 PM	04:00	7.03 pH	18.55 °C	2,893.5 µS/cm	0.66 mg/L	2.64 NTU	-24.0 mV	28.08 ft	1.52 PSU	160.00 ml/min
2/22/2021 2:38 PM	08:00	7.12 pH	18.59 °C	2,706.1 µS/cm	0.30 mg/L	3.16 NTU	-9.9 mV	28.08 ft	1.42 PSU	160.00 ml/min
2/22/2021 2:42 PM	12:00	7.14 pH	18.72 °C	2,684.5 µS/cm	0.22 mg/L	2.79 NTU	-0.1 mV	28.08 ft	1.40 PSU	160.00 ml/min
2/22/2021 2:46 PM	16:00	7.15 pH	18.78 °C	2,682.3 µS/cm	0.19 mg/L	2.37 NTU	3.9 mV	28.08 ft	1.40 PSU	160.00 ml/min
2/22/2021 2:50 PM	20:00	7.15 pH	18.73 °C	2,688.5 µS/cm	0.18 mg/L	2.88 NTU	5.5 mV	28.08 ft	1.41 PSU	160.00 ml/min
2/22/2021 2:54 PM	24:00	7.16 pH	18.79 °C	2,680.9 µS/cm	0.17 mg/L	3.17 NTU	5.5 mV	28.08 ft	1.40 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-35D	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 3/8/2021 12:29:53 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-36D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 86.35 ft Total Depth: 96.35 ft Initial Depth to Water: 23.63 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 91.35 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: -0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/8/2021 12:29 PM	00:00	6.96 pH	21.15 °C	1,171.4 µS/cm	1.79 mg/L	1.85 NTU	68.1 mV	23.61 ft	0.59 PSU	120.00 ml/min
3/8/2021 12:33 PM	04:00	7.05 pH	21.16 °C	1,154.0 µS/cm	1.31 mg/L	2.12 NTU	57.0 mV	23.61 ft	0.58 PSU	120.00 ml/min
3/8/2021 12:37 PM	08:00	7.08 pH	21.37 °C	1,125.6 µS/cm	0.95 mg/L	2.08 NTU	51.8 mV	23.61 ft	0.56 PSU	120.00 ml/min
3/8/2021 12:41 PM	12:00	7.07 pH	21.37 °C	1,111.0 µS/cm	0.82 mg/L	2.50 NTU	49.0 mV	23.61 ft	0.56 PSU	120.00 ml/min
3/8/2021 12:45 PM	16:00	7.05 pH	21.40 °C	1,105.6 µS/cm	0.77 mg/L	2.65 NTU	46.3 mV	23.61 ft	0.55 PSU	120.00 ml/min
3/8/2021 12:49 PM	20:00	7.05 pH	21.42 °C	1,107.4 µS/cm	0.73 mg/L	2.38 NTU	44.0 mV	23.61 ft	0.56 PSU	120.00 ml/min
3/8/2021 12:53 PM	24:00	7.07 pH	21.46 °C	1,113.7 µS/cm	0.70 mg/L	2.16 NTU	41.8 mV	23.61 ft	0.56 PSU	120.00 ml/min
3/8/2021 12:57 PM	28:00	7.09 pH	21.40 °C	1,124.3 µS/cm	0.67 mg/L	2.28 NTU	39.9 mV	23.61 ft	0.56 PSU	120.00 ml/min
3/8/2021 1:01 PM	32:00	7.12 pH	21.41 °C	1,134.8 µS/cm	0.64 mg/L	2.13 NTU	37.9 mV	23.61 ft	0.57 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWC-36D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 1:33:53 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-37D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 99.5 ft Total Depth: 109.5 ft Initial Depth to Water: 27.92 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 104.5 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/22/2021 1:33 PM	00:00	7.71 pH	14.86 °C	922.99 µS/cm	7.68 mg/L	1.81 NTU	-76.2 mV	27.92 ft	0.46 PSU	170.00 ml/min
2/22/2021 1:37 PM	04:00	7.60 pH	16.20 °C	956.74 µS/cm	1.15 mg/L	1.77 NTU	-145.3 mV	28.17 ft	0.48 PSU	170.00 ml/min
2/22/2021 1:41 PM	08:00	7.56 pH	17.04 °C	957.96 µS/cm	0.34 mg/L	1.09 NTU	-171.1 mV	28.26 ft	0.48 PSU	170.00 ml/min
2/22/2021 1:45 PM	12:00	7.51 pH	17.17 °C	952.82 µS/cm	0.23 mg/L	1.63 NTU	-135.5 mV	28.23 ft	0.47 PSU	170.00 ml/min
2/22/2021 1:49 PM	16:00	7.49 pH	17.30 °C	948.43 µS/cm	0.20 mg/L	2.93 NTU	-108.1 mV	28.23 ft	0.47 PSU	170.00 ml/min
2/22/2021 1:53 PM	20:00	7.49 pH	17.39 °C	944.93 µS/cm	0.18 mg/L	3.08 NTU	-96.0 mV	28.23 ft	0.47 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-37D	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 3/9/2021 10:40:31 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-38D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 118.11 ft Total Depth: 128.11 ft Initial Depth to Water: 23.25 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 123.11 ft Estimated Total Volume Pumped: 3360 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/9/2021 10:40 AM	00:00	6.83 pH	20.19 °C	1,237.5 µS/cm	0.52 mg/L	0.20 NTU	1.1 mV	23.25 ft	0.62 PSU	140.00 ml/min
3/9/2021 10:44 AM	04:00	6.88 pH	20.83 °C	1,204.0 µS/cm	0.16 mg/L	0.52 NTU	-17.1 mV	23.25 ft	0.61 PSU	140.00 ml/min
3/9/2021 10:48 AM	08:00	6.89 pH	20.96 °C	1,212.5 µS/cm	0.13 mg/L	0.30 NTU	-22.2 mV	23.25 ft	0.61 PSU	140.00 ml/min
3/9/2021 10:52 AM	12:00	6.92 pH	21.08 °C	1,220.2 µS/cm	0.12 mg/L	0.26 NTU	-26.0 mV	23.25 ft	0.61 PSU	140.00 ml/min
3/9/2021 10:56 AM	16:00	6.93 pH	21.10 °C	1,221.3 µS/cm	0.12 mg/L	0.23 NTU	-28.0 mV	23.25 ft	0.62 PSU	140.00 ml/min
3/9/2021 11:00 AM	20:00	6.95 pH	21.19 °C	1,230.3 µS/cm	0.11 mg/L	0.18 NTU	-29.6 mV	23.25 ft	0.62 PSU	140.00 ml/min
3/9/2021 11:04 AM	24:00	6.97 pH	21.23 °C	1,237.5 µS/cm	0.11 mg/L	0.16 NTU	-30.8 mV	23.25 ft	0.62 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-38D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 10:05:02 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-39 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.27 ft Total Depth: 28.27 ft Initial Depth to Water: 19.24 ft	Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 23.27 ft Estimated Total Volume Pumped: 3960 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.84 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/22/2021 10:05 AM	00:00	6.79 pH	14.40 °C	3,001.8 µS/cm	1.52 mg/L	0.14 NTU	94.3 mV	19.70 ft	1.57 PSU	110.00 ml/min
2/22/2021 10:09 AM	04:00	6.80 pH	14.58 °C	2,978.2 µS/cm	1.38 mg/L	0.36 NTU	88.3 mV	19.82 ft	1.56 PSU	110.00 ml/min
2/22/2021 10:13 AM	08:00	6.83 pH	14.70 °C	2,873.4 µS/cm	1.20 mg/L	0.48 NTU	87.3 mV	19.98 ft	1.50 PSU	110.00 ml/min
2/22/2021 10:17 AM	12:00	6.84 pH	14.68 °C	2,691.0 µS/cm	1.21 mg/L	0.74 NTU	84.6 mV	20.15 ft	1.40 PSU	110.00 ml/min
2/22/2021 10:21 AM	16:00	6.85 pH	14.58 °C	2,446.1 µS/cm	1.37 mg/L	0.75 NTU	78.2 mV	20.32 ft	1.27 PSU	110.00 ml/min
2/22/2021 10:25 AM	20:00	6.85 pH	14.56 °C	2,392.4 µS/cm	1.38 mg/L	0.67 NTU	75.1 mV	20.49 ft	1.24 PSU	110.00 ml/min
2/22/2021 10:29 AM	24:00	6.86 pH	14.40 °C	2,361.1 µS/cm	1.35 mg/L	0.67 NTU	72.7 mV	20.64 ft	1.22 PSU	110.00 ml/min
2/22/2021 10:33 AM	28:00	6.86 pH	14.31 °C	2,362.8 µS/cm	1.30 mg/L	0.61 NTU	70.6 mV	20.78 ft	1.22 PSU	110.00 ml/min
2/22/2021 10:37 AM	32:00	6.87 pH	14.30 °C	2,351.3 µS/cm	1.26 mg/L	0.69 NTU	69.1 mV	20.94 ft	1.22 PSU	110.00 ml/min
2/22/2021 10:41 AM	36:00	6.87 pH	14.22 °C	2,334.7 µS/cm	1.19 mg/L	0.67 NTU	68.1 mV	21.08 ft	1.21 PSU	110.00 ml/min

Samples

Sample ID:	Description:
BGWC-39	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 11:44:11 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-40 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.74 ft Total Depth: 62.74 ft Initial Depth to Water: 23.29 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.74 ft Estimated Total Volume Pumped: 5040 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/22/2021 11:44 AM	00:00	7.07 pH	15.86 °C	1,385.7 µS/cm	0.53 mg/L	12.10 NTU	119.3 mV	23.71 ft	0.70 PSU	140.00 ml/min
2/22/2021 11:48 AM	04:00	7.07 pH	15.88 °C	1,357.2 µS/cm	0.52 mg/L	6.94 NTU	98.1 mV	23.71 ft	0.68 PSU	140.00 ml/min
2/22/2021 11:52 AM	08:00	7.08 pH	15.95 °C	1,350.7 µS/cm	0.43 mg/L	6.57 NTU	93.5 mV	23.71 ft	0.68 PSU	140.00 ml/min
2/22/2021 11:56 AM	12:00	7.08 pH	16.04 °C	1,348.1 µS/cm	0.37 mg/L	6.68 NTU	91.6 mV	23.71 ft	0.68 PSU	140.00 ml/min
2/22/2021 12:00 PM	16:00	7.08 pH	16.01 °C	1,343.7 µS/cm	0.32 mg/L	6.36 NTU	86.7 mV	23.71 ft	0.68 PSU	140.00 ml/min
2/22/2021 12:04 PM	20:00	7.08 pH	16.01 °C	1,340.6 µS/cm	0.31 mg/L	6.36 NTU	84.5 mV	23.71 ft	0.68 PSU	140.00 ml/min
2/22/2021 12:08 PM	24:00	7.08 pH	16.10 °C	1,336.8 µS/cm	0.30 mg/L	5.04 NTU	77.6 mV	23.71 ft	0.67 PSU	140.00 ml/min
2/22/2021 12:12 PM	28:00	7.08 pH	16.19 °C	1,332.5 µS/cm	0.30 mg/L	4.40 NTU	71.4 mV	23.71 ft	0.67 PSU	140.00 ml/min
2/22/2021 12:16 PM	32:00	7.08 pH	16.23 °C	1,327.4 µS/cm	0.34 mg/L	4.15 NTU	66.9 mV	23.71 ft	0.67 PSU	140.00 ml/min
2/22/2021 12:20 PM	36:00	7.08 pH	16.32 °C	1,322.2 µS/cm	0.34 mg/L	3.51 NTU	65.8 mV	23.71 ft	0.67 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-40	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 11:44:14 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-41D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.26 ft Total Depth: 58.26 ft Initial Depth to Water: 17.87 ft	Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 53.26 ft Estimated Total Volume Pumped: 6280 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 2.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/22/2021 11:44 AM	00:00	7.06 pH	14.67 °C	1,757.6 µS/cm	0.57 mg/L	19.20 NTU	-14.0 mV	19.00 ft	0.90 PSU	120.00 ml/min
2/22/2021 11:48 AM	04:00	7.15 pH	14.86 °C	1,738.3 µS/cm	0.38 mg/L	16.10 NTU	-53.7 mV	19.19 ft	0.89 PSU	120.00 ml/min
2/22/2021 11:52 AM	08:00	7.17 pH	14.76 °C	1,734.3 µS/cm	0.38 mg/L	14.00 NTU	-77.8 mV	19.28 ft	0.88 PSU	120.00 ml/min
2/22/2021 11:56 AM	12:00	7.21 pH	14.89 °C	1,733.2 µS/cm	0.34 mg/L	15.10 NTU	-90.2 mV	19.40 ft	0.88 PSU	110.00 ml/min
2/22/2021 12:00 PM	16:00	7.25 pH	14.94 °C	1,725.8 µS/cm	0.30 mg/L	13.00 NTU	-101.1 mV	19.51 ft	0.88 PSU	110.00 ml/min
2/22/2021 12:04 PM	20:00	7.29 pH	15.03 °C	1,719.2 µS/cm	0.30 mg/L	8.69 NTU	-109.3 mV	19.60 ft	0.88 PSU	110.00 ml/min
2/22/2021 12:08 PM	24:00	7.32 pH	15.16 °C	1,716.0 µS/cm	0.27 mg/L	9.12 NTU	-117.9 mV	19.70 ft	0.87 PSU	110.00 ml/min
2/22/2021 12:12 PM	28:00	7.36 pH	15.28 °C	1,698.5 µS/cm	0.25 mg/L	8.57 NTU	-122.5 mV	19.81 ft	0.86 PSU	110.00 ml/min
2/22/2021 12:16 PM	32:00	7.38 pH	15.48 °C	1,685.0 µS/cm	0.25 mg/L	7.04 NTU	-124.6 mV	19.91 ft	0.86 PSU	110.00 ml/min
2/22/2021 12:20 PM	36:00	7.41 pH	15.48 °C	1,672.9 µS/cm	0.25 mg/L	6.77 NTU	-125.3 mV	19.98 ft	0.85 PSU	110.00 ml/min
2/22/2021 12:24 PM	40:00	7.43 pH	15.56 °C	1,660.1 µS/cm	0.24 mg/L	6.26 NTU	-126.0 mV	20.04 ft	0.84 PSU	110.00 ml/min
2/22/2021 12:28 PM	44:00	7.45 pH	15.63 °C	1,645.2 µS/cm	0.23 mg/L	5.86 NTU	-125.6 mV	20.10 ft	0.84 PSU	110.00 ml/min
2/22/2021 12:32 PM	48:00	7.46 pH	15.62 °C	1,635.1 µS/cm	0.25 mg/L	3.25 NTU	-124.4 mV	20.14 ft	0.83 PSU	110.00 ml/min
2/22/2021 12:36 PM	52:00	7.47 pH	15.42 °C	1,628.5 µS/cm	0.28 mg/L	2.80 NTU	-123.1 mV	20.07 ft	0.83 PSU	110.00 ml/min
2/22/2021 12:40 PM	56:00	7.48 pH	15.67 °C	1,631.8 µS/cm	0.26 mg/L	2.30 NTU	-123.1 mV	20.10 ft	0.83 PSU	110.00 ml/min

Samples

Sample ID:	Description:
BGWC-41D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/22/2021 10:52:36 AM

Project: Plant Bowen AP February 2021 AP Scan (2)

Operator Name: Joe Booth

Location Name: BGWC-42D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 143.74 ft Total Depth: 153.74 ft Initial Depth to Water: 28.57 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 148.74 ft Estimated Total Volume Pumped: 3920 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/22/2021 10:52 AM	00:00	7.37 pH	15.33 °C	499.29 µS/cm	0.94 mg/L	3.64 NTU	-149.1 mV	28.57 ft	0.24 PSU	140.00 ml/min
2/22/2021 10:56 AM	04:00	7.41 pH	15.83 °C	707.26 µS/cm	0.63 mg/L	2.63 NTU	-144.7 mV	28.88 ft	0.35 PSU	140.00 ml/min
2/22/2021 11:00 AM	08:00	7.37 pH	16.02 °C	912.95 µS/cm	1.72 mg/L	15.10 NTU	-105.7 mV	28.88 ft	0.45 PSU	140.00 ml/min
2/22/2021 11:04 AM	12:00	7.40 pH	16.09 °C	962.33 µS/cm	1.04 mg/L	13.20 NTU	-108.2 mV	28.88 ft	0.48 PSU	140.00 ml/min
2/22/2021 11:08 AM	16:00	7.44 pH	16.14 °C	984.29 µS/cm	0.69 mg/L	7.32 NTU	-109.7 mV	28.88 ft	0.49 PSU	140.00 ml/min
2/22/2021 11:12 AM	20:00	7.47 pH	16.14 °C	993.96 µS/cm	0.50 mg/L	4.90 NTU	-109.7 mV	28.88 ft	0.49 PSU	140.00 ml/min
2/22/2021 11:16 AM	24:00	7.49 pH	16.27 °C	997.87 µS/cm	0.38 mg/L	4.00 NTU	-108.0 mV	28.88 ft	0.50 PSU	140.00 ml/min
2/22/2021 11:20 AM	28:00	7.50 pH	16.19 °C	999.08 µS/cm	0.32 mg/L	4.29 NTU	-108.8 mV	28.88 ft	0.50 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWC-42D	Metals, inorganic, radium
DUP-3	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 3/8/2021 3:00:51 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWC-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 156.01 ft Total Depth: 166.01 ft Initial Depth to Water: 22.7 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 161.01 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 2 L

Fine black sediment at the start of pumping.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/8/2021 3:00 PM	00:00	7.06 pH	21.99 °C	1,713.6 µS/cm	0.12 mg/L	4.97 NTU	-120.6 mV	22.74 ft	0.88 PSU	200.00 ml/min
3/8/2021 3:04 PM	04:00	7.06 pH	21.95 °C	1,769.0 µS/cm	0.10 mg/L	3.46 NTU	-111.4 mV	22.74 ft	0.91 PSU	200.00 ml/min
3/8/2021 3:08 PM	08:00	7.07 pH	22.00 °C	1,766.0 µS/cm	0.09 mg/L	2.32 NTU	-103.8 mV	22.74 ft	0.90 PSU	200.00 ml/min
3/8/2021 3:12 PM	12:00	7.07 pH	21.91 °C	1,768.2 µS/cm	0.08 mg/L	1.72 NTU	-101.8 mV	22.74 ft	0.91 PSU	200.00 ml/min
3/8/2021 3:16 PM	16:00	7.08 pH	22.16 °C	1,752.3 µS/cm	0.11 mg/L	1.56 NTU	-101.8 mV	22.74 ft	0.90 PSU	200.00 ml/min
3/8/2021 3:20 PM	20:00	7.08 pH	21.91 °C	1,755.2 µS/cm	0.07 mg/L	1.50 NTU	-103.5 mV	22.74 ft	0.90 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWC-43D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/18/2021 10:23:59 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Joe Booth

Location Name: BGWC-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 132.79 ft Total Depth: 142.79 ft Initial Depth to Water: 42.95 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 137.79 ft Estimated Total Volume Pumped: 5760 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 1.72 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
2/18/2021 10:23 AM	00:00	7.52 pH	13.71 °C	673.15 µS/cm	1.62 mg/L	21.90 NTU	-101.2 mV	42.95 ft	0.33 PSU	160.00 ml/min
2/18/2021 10:27 AM	04:00	7.53 pH	14.16 °C	784.12 µS/cm	1.36 mg/L	19.10 NTU	-92.5 mV	44.11 ft	0.39 PSU	160.00 ml/min
2/18/2021 10:31 AM	08:00	7.56 pH	14.29 °C	797.89 µS/cm	0.76 mg/L	10.47 NTU	-97.2 mV	44.26 ft	0.39 PSU	160.00 ml/min
2/18/2021 10:35 AM	12:00	7.58 pH	14.29 °C	799.22 µS/cm	0.53 mg/L	7.34 NTU	-99.0 mV	44.48 ft	0.39 PSU	160.00 ml/min
2/18/2021 10:39 AM	16:00	7.59 pH	13.99 °C	798.62 µS/cm	0.45 mg/L	5.90 NTU	-101.1 mV	44.53 ft	0.39 PSU	160.00 ml/min
2/18/2021 10:43 AM	20:00	7.61 pH	13.75 °C	801.51 µS/cm	0.44 mg/L	5.60 NTU	-101.6 mV	44.56 ft	0.39 PSU	160.00 ml/min
2/18/2021 10:47 AM	24:00	7.62 pH	13.80 °C	804.63 µS/cm	0.40 mg/L	6.17 NTU	-101.7 mV	44.60 ft	0.40 PSU	160.00 ml/min
2/18/2021 10:51 AM	28:00	7.63 pH	13.85 °C	809.03 µS/cm	0.39 mg/L	4.03 NTU	-103.3 mV	44.62 ft	0.40 PSU	160.00 ml/min
2/18/2021 10:55 AM	32:00	7.63 pH	13.92 °C	818.22 µS/cm	0.36 mg/L	2.29 NTU	-103.6 mV	44.65 ft	0.40 PSU	160.00 ml/min
2/18/2021 10:59 AM	36:00	7.64 pH	13.80 °C	823.07 µS/cm	0.34 mg/L	3.10 NTU	-103.1 mV	44.67 ft	0.41 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-44D	Metals, inorganic, radium

Low-Flow Test Report:

Test Date / Time: 2/17/2021 2:32:01 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWA-47D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 144.96 ft Total Depth: 154.96 ft Initial Depth to Water: 54.29 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 149.96 ft Estimated Total Volume Pumped: 18040 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: -0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/17/2021 2:32 PM	00:00	6.93 pH	18.43 °C	626.19 µS/cm	0.71 mg/L	9.06 NTU	21.9 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:36 PM	04:00	6.94 pH	17.71 °C	635.86 µS/cm	0.44 mg/L	8.36 NTU	18.6 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:40 PM	08:00	6.95 pH	17.50 °C	637.84 µS/cm	0.39 mg/L	6.45 NTU	18.4 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:44 PM	12:00	6.94 pH	17.68 °C	637.92 µS/cm	0.37 mg/L	6.00 NTU	18.4 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:48 PM	16:00	6.94 pH	17.72 °C	637.82 µS/cm	0.35 mg/L	5.12 NTU	18.4 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:52 PM	20:00	6.94 pH	17.63 °C	637.19 µS/cm	0.35 mg/L	4.34 NTU	18.4 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 2:56 PM	24:00	6.93 pH	17.58 °C	635.65 µS/cm	0.34 mg/L	4.03 NTU	18.6 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:00 PM	28:00	6.93 pH	17.54 °C	640.06 µS/cm	0.34 mg/L	6.21 NTU	18.2 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:04 PM	32:00	6.93 pH	17.47 °C	640.68 µS/cm	0.33 mg/L	6.49 NTU	18.2 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:08 PM	36:00	6.93 pH	17.50 °C	641.36 µS/cm	0.33 mg/L	6.96 NTU	18.2 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:12 PM	40:00	6.93 pH	17.54 °C	641.04 µS/cm	0.34 mg/L	7.50 NTU	18.3 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:16 PM	44:00	6.92 pH	17.58 °C	641.83 µS/cm	0.36 mg/L	8.20 NTU	18.4 mV	54.30 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:20 PM	48:00	6.92 pH	17.56 °C	640.25 µS/cm	0.39 mg/L	9.38 NTU	18.5 mV	54.29 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:24 PM	52:00	6.92 pH	17.48 °C	639.71 µS/cm	0.39 mg/L	10.52 NTU	18.6 mV	54.29 ft	0.31 PSU	140.00 ml/min
2/17/2021 3:28 PM	56:00	6.92 pH	17.57 °C	642.90 µS/cm	0.41 mg/L	10.49 NTU	18.6 mV	54.29 ft	0.32 PSU	170.00 ml/min

2/17/2021 3:32 PM	01:00:00	6.92 pH	17.49 °C	641.31 µS/cm	0.44 mg/L	10.20 NTU	18.6 mV	54.28 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:36 PM	01:04:00	6.92 pH	17.46 °C	639.68 µS/cm	0.44 mg/L	10.50 NTU	18.9 mV	54.28 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:40 PM	01:08:00	6.91 pH	17.50 °C	640.84 µS/cm	0.46 mg/L	10.96 NTU	18.9 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:44 PM	01:12:00	6.91 pH	17.46 °C	640.89 µS/cm	0.48 mg/L	10.90 NTU	18.9 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:48 PM	01:16:00	6.91 pH	17.50 °C	642.04 µS/cm	0.52 mg/L	8.10 NTU	18.9 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:52 PM	01:20:00	6.91 pH	17.42 °C	641.60 µS/cm	0.52 mg/L	14.40 NTU	19.0 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 3:56 PM	01:24:00	6.91 pH	17.54 °C	641.75 µS/cm	0.49 mg/L	11.17 NTU	18.9 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 4:00 PM	01:28:00	6.91 pH	17.51 °C	641.92 µS/cm	0.47 mg/L	8.66 NTU	18.8 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 4:04 PM	01:32:00	6.91 pH	17.58 °C	642.53 µS/cm	0.53 mg/L	5.25 NTU	18.8 mV	54.27 ft	0.32 PSU	170.00 ml/min
2/17/2021 4:08 PM	01:36:00	6.88 pH	17.54 °C	642.43 µS/cm	0.58 mg/L	8.58 NTU	19.9 mV	54.27 ft	0.32 PSU	170.00 ml/min
2/17/2021 4:12 PM	01:40:00	6.89 pH	17.50 °C	642.68 µS/cm	0.63 mg/L	5.99 NTU	19.6 mV	54.27 ft	0.32 PSU	170.00 ml/min
2/17/2021 4:16 PM	01:44:00	6.88 pH	17.54 °C	641.04 µS/cm	0.66 mg/L	6.66 NTU	19.4 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 4:20 PM	01:48:00	6.89 pH	17.60 °C	644.59 µS/cm	0.67 mg/L	4.66 NTU	18.2 mV	54.27 ft	0.32 PSU	170.00 ml/min
2/17/2021 4:24 PM	01:52:00	6.89 pH	17.63 °C	641.05 µS/cm	0.63 mg/L	3.57 NTU	17.8 mV	54.27 ft	0.31 PSU	170.00 ml/min
2/17/2021 4:28 PM	01:56:00	6.89 pH	17.59 °C	641.14 µS/cm	0.63 mg/L	3.46 NTU	17.2 mV	54.27 ft	0.31 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWA-47D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/17/2021 11:39:53 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: William Laaker

Location Name: BGWA-48D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 184.79 ft Total Depth: 194.79 ft Initial Depth to Water: 54 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 189.79 ft Estimated Total Volume Pumped: 11440 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 3 L

Large flaky white sediment at the start of pumping.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/17/2021 11:39 AM	00:00	7.18 pH	17.47 °C	489.95 µS/cm	0.87 mg/L	4.24 NTU	35.4 mV	55.13 ft	0.24 PSU	110.00 ml/min
2/17/2021 11:43 AM	04:00	7.19 pH	16.14 °C	498.99 µS/cm	0.79 mg/L	3.15 NTU	30.3 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 11:47 AM	08:00	7.19 pH	15.91 °C	499.58 µS/cm	0.78 mg/L	5.98 NTU	28.0 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 11:51 AM	12:00	7.19 pH	15.93 °C	501.29 µS/cm	0.80 mg/L	3.17 NTU	26.1 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 11:55 AM	16:00	7.19 pH	16.17 °C	501.17 µS/cm	0.79 mg/L	4.11 NTU	24.5 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 11:59 AM	20:00	7.19 pH	16.02 °C	500.47 µS/cm	0.80 mg/L	3.54 NTU	23.7 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:03 PM	24:00	7.19 pH	15.97 °C	502.67 µS/cm	0.81 mg/L	5.23 NTU	23.1 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:07 PM	28:00	7.19 pH	15.95 °C	501.81 µS/cm	0.81 mg/L	7.31 NTU	22.5 mV	55.12 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:11 PM	32:00	7.19 pH	15.71 °C	505.07 µS/cm	0.81 mg/L	5.65 NTU	22.0 mV	55.12 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:15 PM	36:00	7.19 pH	15.41 °C	506.84 µS/cm	0.81 mg/L	6.05 NTU	21.6 mV	55.12 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:19 PM	40:00	7.19 pH	15.55 °C	509.52 µS/cm	0.81 mg/L	7.43 NTU	21.1 mV	55.11 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:23 PM	44:00	7.20 pH	15.59 °C	509.40 µS/cm	0.81 mg/L	10.69 NTU	20.7 mV	55.11 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:27 PM	48:00	7.20 pH	15.59 °C	510.55 µS/cm	0.81 mg/L	13.40 NTU	20.4 mV	55.10 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:31 PM	52:00	7.20 pH	15.75 °C	508.72 µS/cm	0.80 mg/L	12.00 NTU	20.0 mV	55.10 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:35 PM	56:00	7.20 pH	15.80 °C	506.24 µS/cm	0.79 mg/L	8.50 NTU	19.8 mV	55.09 ft	0.25 PSU	110.00 ml/min

2/17/2021 12:39 PM	01:00:00	7.20 pH	16.20 °C	505.56 µS/cm	0.79 mg/L	8.87 NTU	19.2 mV	55.09 ft	0.25 PSU	110.00 ml/min
2/17/2021 12:43 PM	01:04:00	7.20 pH	16.42 °C	503.02 µS/cm	0.78 mg/L	9.33 NTU	19.1 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:47 PM	01:08:00	7.20 pH	16.38 °C	500.78 µS/cm	0.78 mg/L	6.60 NTU	19.0 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:51 PM	01:12:00	7.20 pH	16.40 °C	503.27 µS/cm	0.80 mg/L	8.70 NTU	18.9 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:55 PM	01:16:00	7.20 pH	16.47 °C	502.63 µS/cm	0.80 mg/L	6.12 NTU	19.0 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 12:59 PM	01:20:00	7.20 pH	16.59 °C	503.48 µS/cm	0.82 mg/L	7.04 NTU	19.0 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 1:03 PM	01:24:00	7.21 pH	16.68 °C	503.08 µS/cm	0.82 mg/L	6.30 NTU	19.0 mV	55.09 ft	0.24 PSU	110.00 ml/min
2/17/2021 1:07 PM	01:28:00	7.20 pH	16.69 °C	501.18 µS/cm	0.82 mg/L	5.97 NTU	19.4 mV	55.08 ft	0.24 PSU	110.00 ml/min
2/17/2021 1:11 PM	01:32:00	7.21 pH	16.74 °C	503.51 µS/cm	0.83 mg/L	5.08 NTU	19.2 mV	55.08 ft	0.24 PSU	110.00 ml/min
2/17/2021 1:15 PM	01:36:00	7.21 pH	16.70 °C	504.01 µS/cm	0.85 mg/L	4.39 NTU	19.5 mV	55.08 ft	0.25 PSU	110.00 ml/min
2/17/2021 1:19 PM	01:40:00	7.21 pH	16.69 °C	502.07 µS/cm	0.85 mg/L	4.07 NTU	19.6 mV	55.07 ft	0.24 PSU	110.00 ml/min
2/17/2021 1:23 PM	01:44:00	7.21 pH	16.78 °C	502.79 µS/cm	0.86 mg/L	3.00 NTU	19.6 mV	55.07 ft	0.24 PSU	110.00 ml/min

Samples

Sample ID:	Description:
BGWA-48D	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/23/2021 12:20:28 PM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.29 ft Total Depth: 67.29 ft Initial Depth to Water: 36.88 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 62.29 ft Estimated Total Volume Pumped: 4480 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/23/2021 12:20 PM	00:00	6.70 pH	17.17 °C	3,992.3 µS/cm	0.15 mg/L	12.40 NTU	20.0 mV	36.88 ft	2.13 PSU	160.00 ml/min
2/23/2021 12:24 PM	04:00	6.71 pH	17.21 °C	3,993.9 µS/cm	0.13 mg/L	7.40 NTU	20.2 mV	36.88 ft	2.13 PSU	160.00 ml/min
2/23/2021 12:28 PM	08:00	6.71 pH	17.21 °C	3,997.4 µS/cm	0.12 mg/L	6.10 NTU	22.2 mV	36.88 ft	2.14 PSU	160.00 ml/min
2/23/2021 12:32 PM	12:00	6.71 pH	17.22 °C	3,996.8 µS/cm	0.11 mg/L	5.59 NTU	24.0 mV	36.88 ft	2.14 PSU	160.00 ml/min
2/23/2021 12:36 PM	16:00	6.71 pH	17.24 °C	4,000.3 µS/cm	0.11 mg/L	5.01 NTU	25.7 mV	36.88 ft	2.14 PSU	160.00 ml/min
2/23/2021 12:40 PM	20:00	6.71 pH	17.26 °C	3,994.3 µS/cm	0.10 mg/L	3.96 NTU	27.5 mV	36.88 ft	2.13 PSU	160.00 ml/min
2/23/2021 12:44 PM	24:00	6.71 pH	17.26 °C	3,995.3 µS/cm	0.10 mg/L	4.24 NTU	29.7 mV	36.88 ft	2.14 PSU	160.00 ml/min
2/23/2021 12:48 PM	28:00	6.71 pH	17.26 °C	3,996.8 µS/cm	0.10 mg/L	3.30 NTU	31.0 mV	36.88 ft	2.14 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-51	Metals, Inorganics, Radium

Low-Flow Test Report:

Test Date / Time: 2/23/2021 10:16:33 AM

Project: Plant Bowen AP February 2021 AP Scan

Operator Name: Kevin Stephenson

Location Name: BGWC-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 72.18 ft Total Depth: 82.18 ft Initial Depth to Water: 36.05 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 77.18 ft Estimated Total Volume Pumped: 6400 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
2/23/2021 10:16 AM	00:00	6.90 pH	16.28 °C	2,470.4 µS/cm	0.19 mg/L	56.20 NTU	-11.5 mV	36.06 ft	1.28 PSU	160.00 ml/min
2/23/2021 10:20 AM	04:00	6.92 pH	16.53 °C	2,477.6 µS/cm	0.15 mg/L	43.40 NTU	-21.8 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:24 AM	08:00	6.92 pH	16.66 °C	2,477.8 µS/cm	0.13 mg/L	30.90 NTU	-28.5 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:28 AM	12:00	6.93 pH	16.73 °C	2,479.4 µS/cm	0.11 mg/L	27.10 NTU	-33.6 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:32 AM	16:00	6.93 pH	16.82 °C	2,475.6 µS/cm	0.11 mg/L	11.50 NTU	-35.8 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:36 AM	20:00	6.94 pH	16.86 °C	2,476.0 µS/cm	0.10 mg/L	9.02 NTU	-38.2 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:40 AM	24:00	6.94 pH	16.91 °C	2,474.2 µS/cm	0.10 mg/L	4.87 NTU	-39.2 mV	36.06 ft	1.29 PSU	160.00 ml/min
2/23/2021 10:44 AM	28:00	6.94 pH	16.95 °C	2,469.5 µS/cm	0.09 mg/L	4.37 NTU	-39.6 mV	36.06 ft	1.28 PSU	160.00 ml/min
2/23/2021 10:48 AM	32:00	6.95 pH	16.90 °C	2,467.4 µS/cm	0.09 mg/L	4.49 NTU	-39.7 mV	36.06 ft	1.28 PSU	160.00 ml/min
2/23/2021 10:52 AM	36:00	6.95 pH	16.90 °C	2,466.7 µS/cm	0.08 mg/L	4.06 NTU	-39.8 mV	36.06 ft	1.28 PSU	160.00 ml/min
2/23/2021 10:56 AM	40:00	6.95 pH	16.93 °C	2,467.4 µS/cm	0.08 mg/L	3.75 NTU	-40.1 mV	36.06 ft	1.28 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-52	Metals, Inorganics, Radium, TDS, Sulfide, Alk

Low-Flow Test Report:

Test Date / Time: 3/26/2021 9:43:46 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 79.17 ft Total Depth: 89.17 ft Initial Depth to Water: 50.14 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 84.17 ft Estimated Total Volume Pumped: 6120 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: -0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 9:43 AM	00:00	7.49 pH	17.94 °C	394.90 µS/cm	3.09 mg/L	17.60 NTU	60.6 mV	50.15 ft	0.19 PSU	150.00 ml/min
3/26/2021 9:47 AM	04:00	7.54 pH	17.90 °C	400.00 µS/cm	2.64 mg/L	20.60 NTU	49.2 mV	50.15 ft	0.19 PSU	150.00 ml/min
3/26/2021 9:51 AM	08:00	7.56 pH	17.91 °C	395.26 µS/cm	2.38 mg/L	19.90 NTU	47.0 mV	50.15 ft	0.19 PSU	150.00 ml/min
3/26/2021 9:55 AM	12:00	7.57 pH	17.94 °C	392.50 µS/cm	2.25 mg/L	18.80 NTU	45.6 mV	50.13 ft	0.19 PSU	120.00 ml/min
3/26/2021 9:59 AM	16:00	7.57 pH	17.91 °C	392.23 µS/cm	2.13 mg/L	17.00 NTU	44.4 mV	50.12 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:03 AM	20:00	7.58 pH	17.85 °C	391.56 µS/cm	2.01 mg/L	14.30 NTU	44.0 mV	50.12 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:07 AM	24:00	7.59 pH	17.88 °C	389.38 µS/cm	1.96 mg/L	9.78 NTU	42.9 mV	50.12 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:11 AM	28:00	7.60 pH	18.05 °C	388.48 µS/cm	1.93 mg/L	7.45 NTU	41.7 mV	50.11 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:15 AM	32:00	7.60 pH	18.16 °C	386.78 µS/cm	1.89 mg/L	6.16 NTU	41.1 mV	50.11 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:19 AM	36:00	7.61 pH	18.23 °C	385.96 µS/cm	1.84 mg/L	5.40 NTU	40.3 mV	50.10 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:23 AM	40:00	7.61 pH	18.17 °C	384.98 µS/cm	1.83 mg/L	4.83 NTU	39.7 mV	50.10 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:27 AM	44:00	7.62 pH	18.29 °C	384.57 µS/cm	1.83 mg/L	4.46 NTU	39.3 mV	50.10 ft	0.19 PSU	120.00 ml/min
3/26/2021 10:31 AM	48:00	7.63 pH	18.30 °C	384.46 µS/cm	1.84 mg/L	3.69 NTU	38.6 mV	50.10 ft	0.19 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWA-2	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/31/2021 9:43:23 AM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.74 ft Total Depth: 62.74 ft Initial Depth to Water: 38.66 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.74 ft Estimated Total Volume Pumped: 16560 ml Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 0.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/31/2021 9:43 AM	00:00	6.89 pH	17.54 °C	542.17 µS/cm	1.76 mg/L	21.50 NTU	60.1 mV	38.66 ft	0.26 PSU	180.00 ml/min
3/31/2021 9:47 AM	04:00	7.02 pH	17.44 °C	595.69 µS/cm	1.42 mg/L	14.10 NTU	50.7 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 9:51 AM	08:00	7.03 pH	17.42 °C	593.57 µS/cm	0.49 mg/L	12.60 NTU	48.0 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 9:55 AM	12:00	7.06 pH	17.40 °C	592.78 µS/cm	0.32 mg/L	12.30 NTU	46.4 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 9:59 AM	16:00	7.08 pH	17.39 °C	593.89 µS/cm	0.26 mg/L	11.50 NTU	46.2 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:03 AM	20:00	7.10 pH	17.36 °C	592.78 µS/cm	0.23 mg/L	10.95 NTU	46.0 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:07 AM	24:00	7.11 pH	17.37 °C	592.93 µS/cm	0.21 mg/L	9.29 NTU	46.2 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:11 AM	28:00	7.12 pH	17.37 °C	592.59 µS/cm	0.20 mg/L	8.64 NTU	46.4 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:15 AM	32:00	7.13 pH	17.36 °C	592.91 µS/cm	0.20 mg/L	8.75 NTU	46.3 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:19 AM	36:00	7.14 pH	17.35 °C	592.71 µS/cm	0.19 mg/L	8.66 NTU	46.2 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:23 AM	40:00	7.14 pH	17.35 °C	592.18 µS/cm	0.19 mg/L	8.42 NTU	46.1 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:27 AM	44:00	7.14 pH	17.35 °C	591.46 µS/cm	0.19 mg/L	8.12 NTU	45.8 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:31 AM	48:00	7.14 pH	17.33 °C	590.55 µS/cm	0.19 mg/L	7.54 NTU	45.6 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:35 AM	52:00	7.15 pH	17.35 °C	590.48 µS/cm	0.19 mg/L	7.83 NTU	45.2 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:39 AM	56:00	7.16 pH	17.35 °C	589.28 µS/cm	0.19 mg/L	7.26 NTU	44.8 mV	38.84 ft	0.29 PSU	180.00 ml/min

3/31/2021 10:43 AM	01:00:00	7.17 pH	17.35 °C	588.45 µS/cm	0.20 mg/L	7.86 NTU	44.3 mV	38.84 ft	0.29 PSU	180.00 ml/min
3/31/2021 10:47 AM	01:04:00	7.17 pH	17.34 °C	588.53 µS/cm	0.19 mg/L	7.76 NTU	44.1 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 10:51 AM	01:08:00	7.17 pH	17.35 °C	588.25 µS/cm	0.17 mg/L	7.64 NTU	43.7 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 10:55 AM	01:12:00	7.18 pH	17.40 °C	588.21 µS/cm	0.19 mg/L	7.23 NTU	43.2 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 10:59 AM	01:16:00	7.18 pH	17.39 °C	587.70 µS/cm	0.21 mg/L	6.83 NTU	42.4 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:03 AM	01:20:00	7.17 pH	17.39 °C	587.16 µS/cm	0.22 mg/L	6.54 NTU	41.6 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:07 AM	01:24:00	7.17 pH	17.38 °C	586.31 µS/cm	0.23 mg/L	6.07 NTU	41.0 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:11 AM	01:28:00	7.17 pH	17.34 °C	586.17 µS/cm	0.23 mg/L	5.84 NTU	40.3 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:15 AM	01:32:00	7.17 pH	17.31 °C	585.87 µS/cm	0.24 mg/L	4.76 NTU	39.8 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:19 AM	01:36:00	7.17 pH	17.30 °C	585.23 µS/cm	0.25 mg/L	4.86 NTU	39.3 mV	38.84 ft	0.29 PSU	140.00 ml/min
3/31/2021 11:23 AM	01:40:00	7.17 pH	17.30 °C	585.38 µS/cm	0.26 mg/L	4.82 NTU	38.9 mV	38.84 ft	0.29 PSU	140.00 ml/min

Samples

Sample ID:	Description:
BGWA-6	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 12:03:21 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 80.4 ft Total Depth: 90.4 ft Initial Depth to Water: 38.4 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 85.4 ft Estimated Total Volume Pumped: 31200 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 44 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Drawdown historically does not stabilize. Water level drawn down into screen; full evac performed.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 12:03 PM	00:00	6.97 pH	17.54 °C	1,030.0 µS/cm	1.76 mg/L	1.64 NTU	-19.7 mV	40.15 ft	0.51 PSU	200.00 ml/min
3/29/2021 12:07 PM	04:00	6.94 pH	17.85 °C	1,033.5 µS/cm	0.68 mg/L	3.22 NTU	-12.3 mV	40.90 ft	0.52 PSU	200.00 ml/min
3/29/2021 12:11 PM	08:00	6.95 pH	18.06 °C	1,032.7 µS/cm	0.40 mg/L	2.19 NTU	-14.1 mV	41.98 ft	0.52 PSU	200.00 ml/min
3/29/2021 12:15 PM	12:00	6.96 pH	18.12 °C	1,029.8 µS/cm	0.26 mg/L	1.72 NTU	-18.5 mV	43.00 ft	0.51 PSU	200.00 ml/min
3/29/2021 12:19 PM	16:00	6.97 pH	18.17 °C	1,023.4 µS/cm	0.22 mg/L	1.33 NTU	-23.0 mV	44.00 ft	0.51 PSU	200.00 ml/min
3/29/2021 12:23 PM	20:00	6.98 pH	18.23 °C	1,016.6 µS/cm	0.20 mg/L	1.10 NTU	-25.3 mV	44.97 ft	0.51 PSU	200.00 ml/min
3/29/2021 12:27 PM	24:00	6.98 pH	18.25 °C	1,012.0 µS/cm	0.20 mg/L	1.13 NTU	-26.5 mV	45.97 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:31 PM	28:00	6.98 pH	18.26 °C	1,009.0 µS/cm	0.19 mg/L	1.18 NTU	-27.0 mV	46.85 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:35 PM	32:00	6.98 pH	18.34 °C	1,007.4 µS/cm	0.20 mg/L	1.07 NTU	-27.1 mV	47.80 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:39 PM	36:00	6.98 pH	18.35 °C	1,008.3 µS/cm	0.20 mg/L	1.04 NTU	-27.4 mV	48.67 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:43 PM	40:00	6.99 pH	18.26 °C	1,009.5 µS/cm	0.19 mg/L	1.00 NTU	-27.6 mV	49.80 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:47 PM	44:00	6.99 pH	18.30 °C	1,008.9 µS/cm	0.23 mg/L	1.11 NTU	-27.5 mV	50.94 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:51 PM	48:00	6.99 pH	18.21 °C	1,008.4 µS/cm	0.25 mg/L	0.90 NTU	-27.5 mV	52.17 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:55 PM	52:00	6.99 pH	18.34 °C	1,006.4 µS/cm	0.23 mg/L	1.34 NTU	-27.4 mV	53.40 ft	0.50 PSU	200.00 ml/min
3/29/2021 12:59 PM	56:00	6.99 pH	18.28 °C	1,007.5 µS/cm	0.22 mg/L	0.96 NTU	-27.4 mV	54.65 ft	0.50 PSU	200.00 ml/min

3/29/2021 1:03 PM	01:00:00	6.99 pH	18.29 °C	1,007.3 µS/cm	0.21 mg/L	1.11 NTU	-27.3 mV	55.87 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:07 PM	01:04:00	6.99 pH	18.27 °C	1,006.8 µS/cm	0.21 mg/L	0.98 NTU	-26.8 mV	57.10 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:11 PM	01:08:00	7.00 pH	18.21 °C	1,008.9 µS/cm	0.21 mg/L	0.99 NTU	-26.5 mV	58.30 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:15 PM	01:12:00	7.00 pH	18.28 °C	1,008.9 µS/cm	0.22 mg/L	0.98 NTU	-26.2 mV	59.50 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:19 PM	01:16:00	7.00 pH	18.26 °C	1,009.5 µS/cm	0.23 mg/L	1.00 NTU	-25.9 mV	60.70 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:23 PM	01:20:00	7.00 pH	18.21 °C	1,011.6 µS/cm	0.25 mg/L	0.94 NTU	-25.4 mV	61.90 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:27 PM	01:24:00	7.00 pH	18.30 °C	1,011.2 µS/cm	0.31 mg/L	1.01 NTU	-24.8 mV	63.08 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:31 PM	01:28:00	7.01 pH	18.32 °C	1,009.1 µS/cm	0.39 mg/L	1.10 NTU	-24.1 mV	64.23 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:35 PM	01:32:00	7.01 pH	18.34 °C	1,010.7 µS/cm	0.47 mg/L	1.20 NTU	-23.4 mV	65.40 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:39 PM	01:36:00	7.01 pH	18.39 °C	1,012.0 µS/cm	0.50 mg/L	1.10 NTU	-22.8 mV	66.60 ft	0.51 PSU	200.00 ml/min
3/29/2021 1:43 PM	01:40:00	7.02 pH	18.36 °C	1,011.0 µS/cm	0.50 mg/L	1.07 NTU	-22.2 mV	67.80 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:47 PM	01:44:00	7.02 pH	18.31 °C	1,011.7 µS/cm	0.51 mg/L	1.12 NTU	-21.6 mV	68.90 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:51 PM	01:48:00	7.01 pH	18.39 °C	1,010.7 µS/cm	0.51 mg/L	1.11 NTU	-21.1 mV	70.00 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:55 PM	01:52:00	7.02 pH	18.38 °C	1,011.7 µS/cm	0.50 mg/L	1.10 NTU	-20.6 mV	71.10 ft	0.50 PSU	200.00 ml/min
3/29/2021 1:59 PM	01:56:00	7.01 pH	18.39 °C	1,012.1 µS/cm	0.50 mg/L	1.20 NTU	-20.1 mV	72.30 ft	0.51 PSU	200.00 ml/min
3/29/2021 2:03 PM	02:00:00	7.01 pH	18.43 °C	1,010.1 µS/cm	0.48 mg/L	1.02 NTU	-19.8 mV	73.30 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:07 PM	02:04:00	7.02 pH	18.48 °C	1,011.2 µS/cm	0.47 mg/L	1.21 NTU	-19.6 mV	74.40 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:11 PM	02:08:00	7.02 pH	18.44 °C	1,011.3 µS/cm	0.46 mg/L	0.99 NTU	-19.3 mV	75.30 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:15 PM	02:12:00	7.02 pH	18.44 °C	1,010.8 µS/cm	0.46 mg/L	1.22 NTU	-19.0 mV	76.40 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:19 PM	02:16:00	7.02 pH	18.44 °C	1,009.6 µS/cm	0.44 mg/L	1.18 NTU	-18.8 mV	77.30 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:23 PM	02:20:00	7.02 pH	18.48 °C	1,008.5 µS/cm	0.43 mg/L	1.04 NTU	-18.6 mV	78.15 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:27 PM	02:24:00	7.01 pH	18.47 °C	1,009.3 µS/cm	0.42 mg/L	1.00 NTU	-18.6 mV	79.05 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:31 PM	02:28:00	7.01 pH	18.59 °C	1,009.8 µS/cm	0.41 mg/L	1.03 NTU	-18.8 mV	80.20 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:35 PM	02:32:00	7.01 pH	18.58 °C	1,011.7 µS/cm	0.44 mg/L	1.25 NTU	-18.6 mV	81.30 ft	0.50 PSU	200.00 ml/min
3/29/2021 2:39 PM	02:36:00	7.02 pH	18.63 °C	1,016.5 µS/cm	0.48 mg/L	1.43 NTU	-18.4 mV	82.40 ft	0.51 PSU	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/24/2021 12:39:09 PM

Project: Plant Bowen March 2021 AP Semiannual (2)

Operator Name: Joe Booth

Location Name: BGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.73 ft Total Depth: 79.73 ft Initial Depth to Water: 43.9 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 74.73 ft Estimated Total Volume Pumped: 2560 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 12:39 PM	00:00	7.59 pH	18.57 °C	335.44 µS/cm	5.51 mg/L	9.82 NTU	46.8 mV	43.90 ft	0.16 PSU	160.00 ml/min
3/24/2021 12:43 PM	04:00	7.64 pH	18.50 °C	331.41 µS/cm	5.36 mg/L	8.76 NTU	40.1 mV	43.96 ft	0.16 PSU	160.00 ml/min
3/24/2021 12:47 PM	08:00	7.65 pH	18.69 °C	330.73 µS/cm	5.27 mg/L	4.40 NTU	38.9 mV	43.96 ft	0.16 PSU	160.00 ml/min
3/24/2021 12:51 PM	12:00	7.65 pH	18.53 °C	331.26 µS/cm	5.23 mg/L	3.56 NTU	38.3 mV	43.96 ft	0.16 PSU	160.00 ml/min
3/24/2021 12:55 PM	16:00	7.65 pH	18.33 °C	333.15 µS/cm	5.19 mg/L	3.25 NTU	38.3 mV	43.96 ft	0.16 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-8	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/24/2021 1:45:58 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.74 ft Total Depth: 63.74 ft Initial Depth to Water: 27.32 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 58.74 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 1:45 PM	00:00	6.96 pH	18.84 °C	562.65 µS/cm	0.70 mg/L	1.62 NTU	-40.1 mV	27.32 ft	0.27 PSU	150.00 ml/min
3/24/2021 1:49 PM	04:00	6.95 pH	18.86 °C	570.03 µS/cm	0.33 mg/L	1.15 NTU	-48.9 mV	27.35 ft	0.28 PSU	150.00 ml/min
3/24/2021 1:53 PM	08:00	7.01 pH	18.74 °C	563.18 µS/cm	0.27 mg/L	1.57 NTU	-53.2 mV	27.35 ft	0.28 PSU	150.00 ml/min
3/24/2021 1:57 PM	12:00	7.12 pH	19.17 °C	551.78 µS/cm	0.29 mg/L	1.61 NTU	-52.4 mV	27.35 ft	0.27 PSU	150.00 ml/min
3/24/2021 2:01 PM	16:00	7.19 pH	18.95 °C	538.92 µS/cm	0.30 mg/L	1.99 NTU	-49.3 mV	27.35 ft	0.26 PSU	150.00 ml/min
3/24/2021 2:05 PM	20:00	7.21 pH	18.57 °C	536.29 µS/cm	0.40 mg/L	1.62 NTU	-48.1 mV	27.35 ft	0.26 PSU	150.00 ml/min
3/24/2021 2:09 PM	24:00	7.23 pH	18.66 °C	532.62 µS/cm	0.51 mg/L	1.35 NTU	-48.3 mV	27.35 ft	0.26 PSU	150.00 ml/min
3/24/2021 2:13 PM	28:00	7.23 pH	18.58 °C	529.82 µS/cm	0.60 mg/L	1.52 NTU	-47.7 mV	27.35 ft	0.26 PSU	150.00 ml/min
3/24/2021 2:17 PM	32:00	7.26 pH	18.37 °C	526.84 µS/cm	0.74 mg/L	1.37 NTU	-44.9 mV	27.35 ft	0.26 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-9	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 4:20:00 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.37 ft Total Depth: 62.37 ft Initial Depth to Water: 15.5 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.37 ft Estimated Total Volume Pumped: 2200 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 26.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 20 L

Drawdown did not stabilize and ran out of time. Will resume tomorrow (3/30/21).

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 4:20 PM	00:00	7.53 pH	19.22 °C	565.52 µS/cm	1.70 mg/L	2.19 NTU	-73.8 mV	41.07 ft	0.28 PSU	110.00 ml/min
3/29/2021 4:24 PM	04:00	7.53 pH	19.14 °C	564.69 µS/cm	1.54 mg/L	2.17 NTU	-77.4 mV	41.31 ft	0.28 PSU	110.00 ml/min
3/29/2021 4:28 PM	08:00	7.53 pH	19.22 °C	565.36 µS/cm	1.55 mg/L	2.20 NTU	-81.0 mV	41.53 ft	0.28 PSU	110.00 ml/min
3/29/2021 4:32 PM	12:00	7.53 pH	19.26 °C	563.18 µS/cm	1.53 mg/L	1.81 NTU	-83.7 mV	41.80 ft	0.28 PSU	110.00 ml/min
3/29/2021 4:36 PM	16:00	7.54 pH	19.14 °C	563.39 µS/cm	1.58 mg/L	1.95 NTU	-85.2 mV	42.10 ft	0.28 PSU	110.00 ml/min
3/29/2021 4:40 PM	20:00	7.54 pH	19.15 °C	561.75 µS/cm	1.59 mg/L	1.78 NTU	-85.7 mV	42.40 ft	0.27 PSU	110.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/24/2021 3:01:43 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.28 ft Total Depth: 78.28 ft Initial Depth to Water: 36.26 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 73.28 ft Estimated Total Volume Pumped: 2720 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.41 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 3:01 PM	00:00	7.05 pH	19.26 °C	1,099.6 µS/cm	2.60 mg/L	3.36 NTU	-17.1 mV	36.26 ft	0.55 PSU	170.00 ml/min
3/24/2021 3:05 PM	04:00	7.05 pH	19.04 °C	1,078.5 µS/cm	2.49 mg/L	4.44 NTU	-3.1 mV	36.65 ft	0.54 PSU	170.00 ml/min
3/24/2021 3:09 PM	08:00	7.05 pH	19.18 °C	1,070.4 µS/cm	2.41 mg/L	4.88 NTU	2.9 mV	36.66 ft	0.54 PSU	170.00 ml/min
3/24/2021 3:13 PM	12:00	7.04 pH	19.00 °C	1,076.4 µS/cm	2.35 mg/L	4.80 NTU	6.4 mV	36.67 ft	0.54 PSU	170.00 ml/min
3/24/2021 3:17 PM	16:00	7.04 pH	19.12 °C	1,082.6 µS/cm	2.30 mg/L	4.83 NTU	9.2 mV	36.67 ft	0.54 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-12	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/24/2021 3:57:49 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89.46 ft Total Depth: 99.46 ft Initial Depth to Water: 69.27 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 9446 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 3:57 PM	00:00	7.04 pH	19.41 °C	806.92 µS/cm	3.29 mg/L	1.41 NTU	-21.9 mV	69.27 ft	0.40 PSU	160.00 ml/min
3/24/2021 4:01 PM	04:00	7.06 pH	18.75 °C	744.07 µS/cm	1.69 mg/L	0.84 NTU	-2.1 mV	69.34 ft	0.37 PSU	160.00 ml/min
3/24/2021 4:05 PM	08:00	7.06 pH	18.59 °C	735.18 µS/cm	1.36 mg/L	1.05 NTU	8.1 mV	69.34 ft	0.36 PSU	160.00 ml/min
3/24/2021 4:09 PM	12:00	7.06 pH	18.71 °C	731.55 µS/cm	1.24 mg/L	1.10 NTU	12.5 mV	69.34 ft	0.36 PSU	160.00 ml/min
3/24/2021 4:13 PM	16:00	7.05 pH	18.90 °C	723.34 µS/cm	1.19 mg/L	1.04 NTU	15.3 mV	69.34 ft	0.36 PSU	160.00 ml/min
3/24/2021 4:17 PM	20:00	7.05 pH	18.87 °C	718.68 µS/cm	1.16 mg/L	0.96 NTU	17.4 mV	69.34 ft	0.35 PSU	160.00 ml/min
3/24/2021 4:21 PM	24:00	7.04 pH	18.71 °C	713.85 µS/cm	1.16 mg/L	0.78 NTU	18.7 mV	69.34 ft	0.35 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-14A	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/24/2021 12:58:02 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.87 ft Total Depth: 48.87 ft Initial Depth to Water: 15.59 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 43.87 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 12:58 PM	00:00	6.69 pH	18.79 °C	954.19 µS/cm	0.97 mg/L	0.64 NTU	64.7 mV	15.69 ft	0.48 PSU	150.00 ml/min
3/24/2021 1:02 PM	04:00	6.69 pH	18.97 °C	952.16 µS/cm	0.53 mg/L	0.78 NTU	62.3 mV	15.70 ft	0.47 PSU	150.00 ml/min
3/24/2021 1:06 PM	08:00	6.69 pH	18.61 °C	948.53 µS/cm	0.42 mg/L	0.68 NTU	61.1 mV	15.71 ft	0.47 PSU	150.00 ml/min
3/24/2021 1:10 PM	12:00	6.69 pH	18.48 °C	952.04 µS/cm	0.37 mg/L	0.68 NTU	60.4 mV	15.71 ft	0.47 PSU	150.00 ml/min
3/24/2021 1:14 PM	16:00	6.70 pH	18.46 °C	950.55 µS/cm	0.32 mg/L	0.63 NTU	59.6 mV	15.71 ft	0.47 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-16	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/24/2021 1:56:25 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.39 ft Total Depth: 68.39 ft Initial Depth to Water: 14.31 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 63.39 ft Estimated Total Volume Pumped: 4200 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 1:56 PM	00:00	7.30 pH	18.08 °C	598.08 µS/cm	1.78 mg/L	0.75 NTU	43.9 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:00 PM	04:00	7.28 pH	18.38 °C	593.82 µS/cm	0.82 mg/L	0.66 NTU	43.7 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:04 PM	08:00	7.28 pH	18.16 °C	594.36 µS/cm	0.66 mg/L	0.68 NTU	43.6 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:08 PM	12:00	7.28 pH	18.08 °C	594.20 µS/cm	0.58 mg/L	0.72 NTU	43.1 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:12 PM	16:00	7.27 pH	18.65 °C	594.84 µS/cm	0.51 mg/L	0.75 NTU	42.4 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:16 PM	20:00	7.28 pH	18.19 °C	593.59 µS/cm	0.44 mg/L	0.72 NTU	42.1 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:20 PM	24:00	7.27 pH	18.57 °C	592.85 µS/cm	0.42 mg/L	0.74 NTU	41.4 mV	14.34 ft	0.29 PSU	150.00 ml/min
3/24/2021 2:24 PM	28:00	7.27 pH	18.28 °C	592.58 µS/cm	0.39 mg/L	0.57 NTU	41.2 mV	14.34 ft	0.29 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-17	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/24/2021 3:34:31 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.95 ft Total Depth: 37.95 ft Initial Depth to Water: 12.87 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 32.95 ft Estimated Total Volume Pumped: 2600 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/24/2021 3:34 PM	00:00	6.66 pH	18.39 °C	437.44 µS/cm	1.65 mg/L	0.69 NTU	37.5 mV	12.90 ft	0.21 PSU	130.00 ml/min
3/24/2021 3:38 PM	04:00	6.55 pH	18.03 °C	412.18 µS/cm	1.54 mg/L	0.75 NTU	33.6 mV	12.90 ft	0.20 PSU	130.00 ml/min
3/24/2021 3:42 PM	08:00	6.50 pH	17.85 °C	401.49 µS/cm	1.49 mg/L	0.64 NTU	33.7 mV	12.90 ft	0.19 PSU	130.00 ml/min
3/24/2021 3:46 PM	12:00	6.49 pH	17.63 °C	397.72 µS/cm	1.51 mg/L	0.63 NTU	33.1 mV	12.90 ft	0.19 PSU	130.00 ml/min
3/24/2021 3:50 PM	16:00	6.49 pH	17.82 °C	399.19 µS/cm	1.54 mg/L	0.66 NTU	33.0 mV	12.90 ft	0.19 PSU	130.00 ml/min
3/24/2021 3:54 PM	20:00	6.48 pH	17.99 °C	395.32 µS/cm	1.55 mg/L	0.41 NTU	33.1 mV	12.90 ft	0.19 PSU	130.00 ml/min

Samples

Sample ID:	Description:
BGWC-18	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/26/2021 1:18:19 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.58 ft Total Depth: 54.58 ft Initial Depth to Water: 7.4 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 49.58 ft Estimated Total Volume Pumped: 2400 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.38 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 1:18 PM	00:00	6.66 pH	17.01 °C	363.58 µS/cm	3.02 mg/L	1.35 NTU	24.5 mV	7.74 ft	0.18 PSU	120.00 ml/min
3/26/2021 1:22 PM	04:00	6.63 pH	16.87 °C	368.69 µS/cm	2.62 mg/L	1.43 NTU	24.5 mV	7.75 ft	0.18 PSU	120.00 ml/min
3/26/2021 1:26 PM	08:00	6.62 pH	17.03 °C	369.14 µS/cm	2.49 mg/L	1.37 NTU	24.6 mV	7.76 ft	0.18 PSU	120.00 ml/min
3/26/2021 1:30 PM	12:00	6.62 pH	17.02 °C	370.15 µS/cm	2.46 mg/L	1.33 NTU	24.8 mV	7.77 ft	0.18 PSU	120.00 ml/min
3/26/2021 1:34 PM	16:00	6.62 pH	17.05 °C	368.07 µS/cm	2.42 mg/L	1.31 NTU	25.1 mV	7.78 ft	0.18 PSU	120.00 ml/min
3/26/2021 1:38 PM	20:00	6.61 pH	17.14 °C	368.10 µS/cm	2.42 mg/L	1.20 NTU	25.1 mV	7.78 ft	0.18 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWC-19	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 2:37:26 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.73 ft Total Depth: 49.73 ft Initial Depth to Water: 9.96 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 44.73 ft Estimated Total Volume Pumped: 12400 ml Flow Cell Volume: 90 ml Final Flow Rate: 155 ml/min Final Draw Down: 9.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 2:37 PM	00:00	7.23 pH	17.06 °C	1,665.1 µS/cm	2.50 mg/L	1.79 NTU	3.8 mV	9.96 ft	0.85 PSU	155.00 ml/min
3/29/2021 2:41 PM	04:00	7.24 pH	16.55 °C	1,656.9 µS/cm	1.96 mg/L	2.39 NTU	4.9 mV	12.63 ft	0.84 PSU	155.00 ml/min
3/29/2021 2:45 PM	08:00	7.23 pH	16.50 °C	1,660.0 µS/cm	1.83 mg/L	1.77 NTU	5.6 mV	13.25 ft	0.85 PSU	155.00 ml/min
3/29/2021 2:49 PM	12:00	7.23 pH	16.50 °C	1,662.4 µS/cm	1.75 mg/L	1.49 NTU	6.1 mV	14.03 ft	0.85 PSU	155.00 ml/min
3/29/2021 2:53 PM	16:00	7.24 pH	16.54 °C	1,663.8 µS/cm	1.75 mg/L	1.34 NTU	6.7 mV	14.50 ft	0.85 PSU	155.00 ml/min
3/29/2021 2:57 PM	20:00	7.24 pH	16.56 °C	1,666.0 µS/cm	1.72 mg/L	1.67 NTU	7.2 mV	15.02 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:01 PM	24:00	7.23 pH	16.65 °C	1,667.8 µS/cm	1.70 mg/L	1.48 NTU	7.8 mV	15.51 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:05 PM	28:00	7.24 pH	16.72 °C	1,663.8 µS/cm	1.67 mg/L	1.98 NTU	8.3 mV	16.00 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:09 PM	32:00	7.24 pH	16.90 °C	1,664.4 µS/cm	1.56 mg/L	2.03 NTU	8.7 mV	16.47 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:13 PM	36:00	7.23 pH	17.10 °C	1,671.5 µS/cm	1.36 mg/L	1.56 NTU	8.5 mV	16.96 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:17 PM	40:00	7.22 pH	17.30 °C	1,676.5 µS/cm	1.22 mg/L	1.21 NTU	5.6 mV	17.27 ft	0.85 PSU	155.00 ml/min
3/29/2021 3:21 PM	44:00	7.22 pH	17.48 °C	1,678.6 µS/cm	1.15 mg/L	1.46 NTU	2.2 mV	17.54 ft	0.86 PSU	155.00 ml/min
3/29/2021 3:25 PM	48:00	7.22 pH	17.57 °C	1,681.5 µS/cm	1.10 mg/L	1.22 NTU	-1.0 mV	17.96 ft	0.86 PSU	155.00 ml/min
3/29/2021 3:29 PM	52:00	7.22 pH	17.61 °C	1,678.5 µS/cm	1.03 mg/L	1.01 NTU	-3.9 mV	18.26 ft	0.86 PSU	155.00 ml/min
3/29/2021 3:33 PM	56:00	7.22 pH	17.66 °C	1,683.1 µS/cm	0.96 mg/L	1.32 NTU	-5.9 mV	18.55 ft	0.86 PSU	155.00 ml/min

3/29/2021 3:37 PM	01:00:00	7.22 pH	17.76 °C	1,687.8 µS/cm	0.90 mg/L	1.14 NTU	-7.4 mV	18.76 ft	0.86 PSU	155.00 ml/min
3/29/2021 3:41 PM	01:04:00	7.22 pH	17.72 °C	1,694.5 µS/cm	0.81 mg/L	0.93 NTU	-8.8 mV	18.93 ft	0.86 PSU	155.00 ml/min
3/29/2021 3:45 PM	01:08:00	7.23 pH	17.57 °C	1,697.4 µS/cm	0.75 mg/L	1.06 NTU	-9.5 mV	19.11 ft	0.87 PSU	155.00 ml/min
3/29/2021 3:49 PM	01:12:00	7.23 pH	17.40 °C	1,699.6 µS/cm	0.74 mg/L	0.95 NTU	-10.0 mV	19.32 ft	0.87 PSU	155.00 ml/min
3/29/2021 3:53 PM	01:16:00	7.23 pH	17.33 °C	1,700.3 µS/cm	0.75 mg/L	0.86 NTU	-10.4 mV	19.46 ft	0.87 PSU	155.00 ml/min
3/29/2021 3:57 PM	01:20:00	7.24 pH	17.30 °C	1,700.5 µS/cm	0.76 mg/L	0.82 NTU	-10.6 mV	19.46 ft	0.87 PSU	155.00 ml/min

Samples

Sample ID:	Description:
BGWC-20	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 12:24:42 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.99 ft Total Depth: 52.99 ft Initial Depth to Water: 13.43 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 47.99 ft Estimated Total Volume Pumped: 5760 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 12:24 PM	00:00	7.78 pH	18.09 °C	437.55 µS/cm	2.61 mg/L	3.41 NTU	11.9 mV	13.43 ft	0.21 PSU	160.00 ml/min
3/29/2021 12:28 PM	04:00	7.81 pH	18.17 °C	419.22 µS/cm	1.21 mg/L	3.79 NTU	11.3 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:32 PM	08:00	7.78 pH	18.19 °C	420.61 µS/cm	1.18 mg/L	5.98 NTU	11.2 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:36 PM	12:00	7.77 pH	18.26 °C	422.10 µS/cm	1.19 mg/L	5.85 NTU	11.4 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:40 PM	16:00	7.76 pH	18.24 °C	422.39 µS/cm	1.13 mg/L	5.91 NTU	11.6 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:44 PM	20:00	7.76 pH	18.23 °C	422.62 µS/cm	1.10 mg/L	5.60 NTU	12.0 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:48 PM	24:00	7.76 pH	18.25 °C	422.78 µS/cm	1.02 mg/L	5.51 NTU	12.1 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:52 PM	28:00	7.75 pH	18.33 °C	420.23 µS/cm	0.94 mg/L	4.91 NTU	12.5 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 12:56 PM	32:00	7.75 pH	18.34 °C	422.38 µS/cm	0.88 mg/L	4.91 NTU	12.5 mV	13.85 ft	0.20 PSU	160.00 ml/min
3/29/2021 1:00 PM	36:00	7.75 pH	18.29 °C	420.30 µS/cm	0.82 mg/L	4.21 NTU	12.4 mV	13.85 ft	0.20 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-21	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 11:26:34 AM

Project: Plant Bowen March 2021 AP Semiannual (2)

Operator Name: Joe Booth

Location Name: BGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.05 ft Total Depth: 43.05 ft Initial Depth to Water: 22.02 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 38.05 ft Estimated Total Volume Pumped: 3400 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 11:26 AM	00:00	6.70 pH	18.10 °C	4,153.2 µS/cm	0.72 mg/L	1.55 NTU	71.8 mV	22.02 ft	2.23 PSU	170.00 ml/min
3/29/2021 11:30 AM	04:00	6.70 pH	18.07 °C	4,132.3 µS/cm	0.42 mg/L	1.31 NTU	68.5 mV	22.23 ft	2.21 PSU	170.00 ml/min
3/29/2021 11:34 AM	08:00	6.69 pH	18.10 °C	4,129.0 µS/cm	0.31 mg/L	0.83 NTU	64.6 mV	22.23 ft	2.21 PSU	170.00 ml/min
3/29/2021 11:38 AM	12:00	6.69 pH	18.11 °C	4,119.7 µS/cm	0.27 mg/L	0.62 NTU	61.3 mV	22.23 ft	2.21 PSU	170.00 ml/min
3/29/2021 11:42 AM	16:00	6.71 pH	18.16 °C	4,113.0 µS/cm	0.24 mg/L	0.75 NTU	58.4 mV	22.23 ft	2.20 PSU	170.00 ml/min
3/29/2021 11:46 AM	20:00	6.71 pH	18.15 °C	4,120.2 µS/cm	0.24 mg/L	0.63 NTU	55.9 mV	22.23 ft	2.21 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-22	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/26/2021 11:23:40 AM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 40.95 ft Total Depth: 50.95 ft Initial Depth to Water: 26.97 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 45.95 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 2.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 11:23 AM	00:00	6.97 pH	19.17 °C	4,069.3 µS/cm	2.03 mg/L	2.53 NTU	9.8 mV	26.97 ft	2.18 PSU	180.00 ml/min
3/26/2021 11:27 AM	04:00	6.92 pH	18.89 °C	4,081.4 µS/cm	0.89 mg/L	2.64 NTU	9.3 mV	28.64 ft	2.19 PSU	180.00 ml/min
3/26/2021 11:31 AM	08:00	6.91 pH	19.00 °C	4,129.9 µS/cm	0.62 mg/L	2.44 NTU	8.1 mV	28.99 ft	2.21 PSU	180.00 ml/min
3/26/2021 11:35 AM	12:00	6.91 pH	18.95 °C	4,187.4 µS/cm	0.46 mg/L	2.41 NTU	7.0 mV	29.13 ft	2.25 PSU	180.00 ml/min
3/26/2021 11:39 AM	16:00	6.91 pH	19.31 °C	4,210.9 µS/cm	0.33 mg/L	2.18 NTU	4.8 mV	29.22 ft	2.26 PSU	180.00 ml/min
3/26/2021 11:43 AM	20:00	6.91 pH	19.04 °C	4,269.3 µS/cm	0.26 mg/L	2.06 NTU	3.6 mV	29.30 ft	2.29 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWC-23	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/26/2021 9:35:26 AM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.11 ft Total Depth: 66.11 ft Initial Depth to Water: 11.34 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 61.11 ft Estimated Total Volume Pumped: 5960 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 5.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 9:35 AM	00:00	6.57 pH	18.06 °C	4,852.8 µS/cm	3.19 mg/L	2.62 NTU	116.1 mV	11.34 ft	2.63 PSU	160.00 ml/min
3/26/2021 9:39 AM	04:00	6.49 pH	18.42 °C	5,198.8 µS/cm	1.28 mg/L	4.97 NTU	98.9 mV	13.87 ft	2.83 PSU	160.00 ml/min
3/26/2021 9:43 AM	08:00	6.51 pH	18.29 °C	4,994.7 µS/cm	0.53 mg/L	5.99 NTU	106.7 mV	14.54 ft	2.71 PSU	130.00 ml/min
3/26/2021 9:47 AM	12:00	6.53 pH	18.32 °C	4,870.6 µS/cm	0.39 mg/L	6.17 NTU	108.2 mV	14.81 ft	2.64 PSU	130.00 ml/min
3/26/2021 9:51 AM	16:00	6.53 pH	18.34 °C	4,848.6 µS/cm	0.30 mg/L	5.72 NTU	106.3 mV	15.18 ft	2.63 PSU	130.00 ml/min
3/26/2021 9:55 AM	20:00	6.53 pH	18.24 °C	4,926.8 µS/cm	0.32 mg/L	6.47 NTU	102.7 mV	15.48 ft	2.67 PSU	130.00 ml/min
3/26/2021 9:59 AM	24:00	6.53 pH	18.21 °C	4,932.1 µS/cm	0.31 mg/L	4.30 NTU	101.0 mV	15.81 ft	2.67 PSU	130.00 ml/min
3/26/2021 10:03 AM	28:00	6.53 pH	18.18 °C	4,927.0 µS/cm	0.32 mg/L	4.17 NTU	100.6 mV	16.10 ft	2.67 PSU	130.00 ml/min
3/26/2021 10:07 AM	32:00	6.54 pH	18.28 °C	4,921.0 µS/cm	0.31 mg/L	3.12 NTU	99.6 mV	16.34 ft	2.67 PSU	130.00 ml/min
3/26/2021 10:11 AM	36:00	6.54 pH	18.53 °C	4,925.9 µS/cm	0.33 mg/L	2.65 NTU	96.3 mV	16.62 ft	2.67 PSU	130.00 ml/min
3/26/2021 10:15 AM	40:00	6.54 pH	18.69 °C	4,943.9 µS/cm	0.32 mg/L	2.55 NTU	95.9 mV	16.74 ft	2.68 PSU	130.00 ml/min
3/26/2021 10:19 AM	44:00	6.54 pH	18.79 °C	4,950.9 µS/cm	0.33 mg/L	2.41 NTU	93.5 mV	16.80 ft	2.69 PSU	130.00 ml/min

Samples

Sample ID:	Description:
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BGWC-24	Metals, Inorganic, TDS, Radium
DUP-2	Metals, Inorganic, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/26/2021 12:04:27 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 47.87 ft Total Depth: 57.87 ft Initial Depth to Water: 13.97 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 52.87 ft Estimated Total Volume Pumped: 1920 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 8.71 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 7.5 L

Black organic-like sediment in water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 12:04 PM	00:00	7.32 pH	17.99 °C	445.86 µS/cm	0.07 mg/L	3.77 NTU	-22.4 mV	22.71 ft	0.22 PSU	120.00 ml/min
3/26/2021 12:08 PM	04:00	7.33 pH	17.92 °C	441.05 µS/cm	0.06 mg/L	3.68 NTU	-23.9 mV	22.68 ft	0.21 PSU	120.00 ml/min
3/26/2021 12:12 PM	08:00	7.35 pH	17.71 °C	439.53 µS/cm	0.08 mg/L	3.10 NTU	-29.4 mV	22.67 ft	0.21 PSU	120.00 ml/min
3/26/2021 12:16 PM	12:00	7.36 pH	17.81 °C	439.01 µS/cm	0.10 mg/L	2.65 NTU	-34.7 mV	22.67 ft	0.21 PSU	120.00 ml/min
3/26/2021 12:20 PM	16:00	7.36 pH	17.96 °C	439.34 µS/cm	0.11 mg/L	2.39 NTU	-39.7 mV	22.68 ft	0.21 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWC-25	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/23/2021 12:58:39 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWA-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 89.03 ft Total Depth: 99.03 ft Initial Depth to Water: 45.28 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 94.03 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/23/2021 12:58 PM	00:00	7.58 pH	16.91 °C	215.35 µS/cm	7.71 mg/L	0.08 NTU	105.1 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:02 PM	04:00	7.76 pH	16.86 °C	215.78 µS/cm	7.78 mg/L	0.29 NTU	80.5 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:06 PM	08:00	7.88 pH	16.86 °C	215.63 µS/cm	7.76 mg/L	0.13 NTU	70.3 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:10 PM	12:00	7.95 pH	16.90 °C	215.48 µS/cm	7.69 mg/L	0.26 NTU	62.5 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:14 PM	16:00	7.98 pH	16.91 °C	215.26 µS/cm	7.63 mg/L	0.04 NTU	59.5 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:18 PM	20:00	7.99 pH	16.95 °C	215.19 µS/cm	7.57 mg/L	0.10 NTU	57.5 mV	45.31 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:22 PM	24:00	8.00 pH	17.00 °C	215.26 µS/cm	7.62 mg/L	0.24 NTU	56.0 mV	45.32 ft	0.10 PSU	200.00 ml/min
3/23/2021 1:26 PM	28:00	8.00 pH	17.03 °C	215.24 µS/cm	7.73 mg/L	0.01 NTU	55.4 mV	45.32 ft	0.10 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWA-29	Metals, Inorganics, TDS, Radium

Dup-1 Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/25/2021 11:02:28 AM

Project: Plant Bowen 2021 March AP Semiannual (2)

Operator Name: Kevin Stephenson

Location Name: BGWC-30 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.98 ft Total Depth: 59.98 ft Initial Depth to Water: 25.22 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 54.98 ft Estimated Total Volume Pumped: 3840 ml Flow Cell Volume: 90 ml Final Flow Rate: 240 ml/min Final Draw Down: 0.22 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/25/2021 11:02 AM	00:00	7.19 pH	20.45 °C	690.77 µS/cm	4.42 mg/L	0.16 NTU	135.4 mV	25.43 ft	0.34 PSU	240.00 ml/min
3/25/2021 11:06 AM	04:00	7.18 pH	20.29 °C	682.80 µS/cm	4.33 mg/L	0.69 NTU	85.8 mV	25.43 ft	0.34 PSU	240.00 ml/min
3/25/2021 11:10 AM	08:00	7.19 pH	20.29 °C	683.12 µS/cm	4.32 mg/L	1.41 NTU	67.2 mV	25.43 ft	0.34 PSU	240.00 ml/min
3/25/2021 11:14 AM	12:00	7.20 pH	20.33 °C	682.65 µS/cm	4.29 mg/L	3.69 NTU	56.7 mV	25.44 ft	0.34 PSU	240.00 ml/min
3/25/2021 11:18 AM	16:00	7.21 pH	20.38 °C	683.74 µS/cm	4.28 mg/L	3.44 NTU	50.2 mV	25.44 ft	0.34 PSU	240.00 ml/min

Samples

Sample ID:	Description:
BGWC-30	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 1:39:58 PM

Project: Plant Bowen March 2021 AP Semiannual (2)

Operator Name: Joe Booth

Location Name: BGWC-31 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.7 ft Total Depth: 49.7 ft Initial Depth to Water: 11.33 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 44.7 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 1:39 PM	00:00	6.96 pH	16.99 °C	675.98 µS/cm	1.97 mg/L	11.10 NTU	-46.5 mV	11.33 ft	0.33 PSU	150.00 ml/min
3/29/2021 1:43 PM	04:00	6.82 pH	17.17 °C	680.60 µS/cm	0.33 mg/L	5.79 NTU	-36.5 mV	11.55 ft	0.33 PSU	150.00 ml/min
3/29/2021 1:47 PM	08:00	6.86 pH	17.38 °C	675.20 µS/cm	0.15 mg/L	4.37 NTU	-45.2 mV	11.58 ft	0.33 PSU	150.00 ml/min
3/29/2021 1:51 PM	12:00	6.90 pH	17.48 °C	673.83 µS/cm	0.12 mg/L	4.48 NTU	-53.6 mV	11.60 ft	0.33 PSU	150.00 ml/min
3/29/2021 1:55 PM	16:00	6.94 pH	17.46 °C	673.85 µS/cm	0.11 mg/L	4.55 NTU	-60.8 mV	11.61 ft	0.33 PSU	150.00 ml/min
3/29/2021 1:59 PM	20:00	6.97 pH	17.53 °C	672.10 µS/cm	0.11 mg/L	3.86 NTU	-66.6 mV	11.61 ft	0.33 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-31	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/30/2021 11:19:18 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-32 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.22 ft Total Depth: 51.22 ft Initial Depth to Water: 33.45 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 46.22 ft Estimated Total Volume Pumped: 7140 ml Flow Cell Volume: 90 ml Final Flow Rate: 105 ml/min Final Draw Down: 5.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 11:19 AM	00:00	7.09 pH	18.06 °C	2,048.2 µS/cm	2.37 mg/L	2.22 NTU	22.3 mV	35.60 ft	1.06 PSU	105.00 ml/min
3/30/2021 11:23 AM	04:00	7.09 pH	18.16 °C	2,018.8 µS/cm	2.14 mg/L	1.87 NTU	23.9 mV	35.98 ft	1.04 PSU	105.00 ml/min
3/30/2021 11:27 AM	08:00	7.09 pH	18.52 °C	1,994.7 µS/cm	1.99 mg/L	1.68 NTU	25.5 mV	36.21 ft	1.03 PSU	105.00 ml/min
3/30/2021 11:31 AM	12:00	7.09 pH	18.83 °C	1,983.0 µS/cm	1.90 mg/L	1.43 NTU	26.9 mV	36.49 ft	1.02 PSU	105.00 ml/min
3/30/2021 11:35 AM	16:00	7.09 pH	18.61 °C	1,970.3 µS/cm	1.83 mg/L	1.22 NTU	28.5 mV	36.81 ft	1.01 PSU	105.00 ml/min
3/30/2021 11:39 AM	20:00	7.09 pH	18.77 °C	1,966.0 µS/cm	1.74 mg/L	1.18 NTU	29.6 mV	37.19 ft	1.01 PSU	105.00 ml/min
3/30/2021 11:43 AM	24:00	7.09 pH	18.99 °C	1,958.8 µS/cm	1.67 mg/L	0.96 NTU	30.3 mV	37.28 ft	1.01 PSU	105.00 ml/min
3/30/2021 11:47 AM	28:00	7.09 pH	19.19 °C	1,953.3 µS/cm	1.57 mg/L	1.01 NTU	30.8 mV	37.43 ft	1.00 PSU	105.00 ml/min
3/30/2021 11:51 AM	32:00	7.09 pH	19.32 °C	1,953.5 µS/cm	1.46 mg/L	0.90 NTU	31.1 mV	37.53 ft	1.01 PSU	105.00 ml/min
3/30/2021 11:55 AM	36:00	7.09 pH	19.06 °C	1,960.3 µS/cm	1.34 mg/L	0.87 NTU	31.7 mV	37.63 ft	1.01 PSU	105.00 ml/min
3/30/2021 11:59 AM	40:00	7.08 pH	19.21 °C	1,990.2 µS/cm	1.24 mg/L	0.81 NTU	31.4 mV	37.71 ft	1.02 PSU	105.00 ml/min
3/30/2021 12:03 PM	44:00	7.08 pH	18.92 °C	2,021.5 µS/cm	1.16 mg/L	0.84 NTU	31.4 mV	37.81 ft	1.04 PSU	105.00 ml/min
3/30/2021 12:07 PM	48:00	7.08 pH	19.06 °C	2,047.6 µS/cm	1.08 mg/L	0.80 NTU	30.9 mV	37.93 ft	1.06 PSU	105.00 ml/min
3/30/2021 12:11 PM	52:00	7.08 pH	19.12 °C	2,068.5 µS/cm	1.02 mg/L	0.79 NTU	30.3 mV	38.07 ft	1.07 PSU	105.00 ml/min
3/30/2021 12:15 PM	56:00	7.07 pH	19.32 °C	2,077.5 µS/cm	0.97 mg/L	0.71 NTU	30.0 mV	38.22 ft	1.07 PSU	105.00 ml/min

3/30/2021 12:19 PM	01:00:00	7.07 pH	19.26 °C	2,081.1 µS/cm	0.96 mg/L	0.85 NTU	29.9 mV	38.37 ft	1.07 PSU	105.00 ml/min
3/30/2021 12:23 PM	01:04:00	7.07 pH	19.46 °C	2,085.3 µS/cm	0.95 mg/L	0.74 NTU	29.4 mV	38.50 ft	1.08 PSU	105.00 ml/min
3/30/2021 12:27 PM	01:08:00	7.07 pH	19.35 °C	2,086.5 µS/cm	0.94 mg/L	0.61 NTU	29.4 mV	38.64 ft	1.08 PSU	105.00 ml/min

Samples

Sample ID:	Description:
BGWC-32	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/30/2021 9:50:17 AM

Project: Plant Bowen March 2021 AP Semiannual (3)

Operator Name: Joe Booth

Location Name: BGWA-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.84 ft Total Depth: 80.84 ft Initial Depth to Water: 67.57 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 77.84 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 9:50 AM	00:00	7.52 pH	16.23 °C	414.80 µS/cm	1.25 mg/L	12.20 NTU	43.0 mV	67.57 ft	0.20 PSU	150.00 ml/min
3/30/2021 9:54 AM	04:00	7.48 pH	16.41 °C	419.54 µS/cm	1.05 mg/L	9.59 NTU	37.4 mV	69.62 ft	0.20 PSU	150.00 ml/min
3/30/2021 9:58 AM	08:00	7.48 pH	16.50 °C	420.90 µS/cm	1.08 mg/L	8.28 NTU	35.5 mV	70.18 ft	0.20 PSU	150.00 ml/min
3/30/2021 10:02 AM	12:00	7.49 pH	16.50 °C	421.27 µS/cm	1.12 mg/L	6.91 NTU	34.4 mV	70.97 ft	0.20 PSU	150.00 ml/min
3/30/2021 10:06 AM	16:00	7.49 pH	16.50 °C	419.19 µS/cm	1.14 mg/L	6.95 NTU	33.2 mV	71.49 ft	0.20 PSU	150.00 ml/min
3/30/2021 10:10 AM	20:00	7.50 pH	16.54 °C	418.46 µS/cm	1.19 mg/L	4.92 NTU	32.0 mV	72.05 ft	0.20 PSU	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/30/2021 12:24:15 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-34D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69.75 ft Total Depth: 79.75 ft Initial Depth to Water: 10.97 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 74.75 ft Estimated Total Volume Pumped: 22800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 20.28 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 12:24 PM	00:00	6.95 pH	17.97 °C	862.49 µS/cm	0.87 mg/L	1.37 NTU	-83.3 mV	10.97 ft	0.43 PSU	150.00 ml/min
3/30/2021 12:28 PM	04:00	6.86 pH	17.73 °C	864.88 µS/cm	0.23 mg/L	0.99 NTU	-73.4 mV	12.66 ft	0.43 PSU	150.00 ml/min
3/30/2021 12:32 PM	08:00	6.89 pH	17.81 °C	865.74 µS/cm	0.12 mg/L	0.88 NTU	-73.5 mV	13.73 ft	0.43 PSU	150.00 ml/min
3/30/2021 12:36 PM	12:00	6.91 pH	17.96 °C	865.38 µS/cm	0.09 mg/L	1.15 NTU	-75.3 mV	14.63 ft	0.43 PSU	150.00 ml/min
3/30/2021 12:40 PM	16:00	6.94 pH	18.02 °C	864.86 µS/cm	0.09 mg/L	1.06 NTU	-77.4 mV	15.41 ft	0.43 PSU	150.00 ml/min
3/30/2021 12:44 PM	20:00	6.98 pH	18.04 °C	855.57 µS/cm	0.09 mg/L	1.04 NTU	-76.1 mV	16.03 ft	0.42 PSU	150.00 ml/min
3/30/2021 12:48 PM	24:00	7.03 pH	18.11 °C	841.60 µS/cm	0.10 mg/L	1.31 NTU	-71.0 mV	16.87 ft	0.42 PSU	150.00 ml/min
3/30/2021 12:52 PM	28:00	7.04 pH	18.24 °C	829.09 µS/cm	0.10 mg/L	1.42 NTU	-69.5 mV	17.53 ft	0.41 PSU	150.00 ml/min
3/30/2021 12:56 PM	32:00	7.05 pH	18.32 °C	820.27 µS/cm	0.10 mg/L	0.99 NTU	-66.6 mV	18.18 ft	0.41 PSU	150.00 ml/min
3/30/2021 1:00 PM	36:00	7.07 pH	18.15 °C	819.08 µS/cm	0.10 mg/L	1.31 NTU	-65.2 mV	18.77 ft	0.41 PSU	150.00 ml/min
3/30/2021 1:04 PM	40:00	7.07 pH	17.95 °C	820.29 µS/cm	0.11 mg/L	1.26 NTU	-64.6 mV	19.60 ft	0.41 PSU	150.00 ml/min
3/30/2021 1:08 PM	44:00	7.08 pH	18.28 °C	819.82 µS/cm	0.12 mg/L	1.21 NTU	-65.9 mV	20.22 ft	0.41 PSU	150.00 ml/min
3/30/2021 1:12 PM	48:00	7.09 pH	18.37 °C	818.11 µS/cm	0.11 mg/L	1.23 NTU	-66.1 mV	20.84 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:16 PM	52:00	7.09 pH	18.19 °C	818.62 µS/cm	0.12 mg/L	1.18 NTU	-67.2 mV	21.42 ft	0.41 PSU	150.00 ml/min
3/30/2021 1:20 PM	56:00	7.10 pH	18.33 °C	816.93 µS/cm	0.12 mg/L	1.14 NTU	-67.9 mV	22.01 ft	0.40 PSU	150.00 ml/min

3/30/2021 1:24 PM	01:00:00	7.11 pH	18.26 °C	816.21 µS/cm	0.12 mg/L	1.10 NTU	-68.2 mV	22.54 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:28 PM	01:04:00	7.11 pH	18.17 °C	817.23 µS/cm	0.12 mg/L	0.95 NTU	-69.4 mV	23.09 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:32 PM	01:08:00	7.11 pH	18.07 °C	815.29 µS/cm	0.12 mg/L	0.89 NTU	-69.6 mV	23.61 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:36 PM	01:12:00	7.12 pH	18.10 °C	813.46 µS/cm	0.12 mg/L	1.25 NTU	-71.1 mV	24.12 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:40 PM	01:16:00	7.12 pH	18.26 °C	810.84 µS/cm	0.12 mg/L	1.04 NTU	-72.3 mV	24.60 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:44 PM	01:20:00	7.12 pH	18.33 °C	808.03 µS/cm	0.13 mg/L	0.93 NTU	-72.8 mV	25.10 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:48 PM	01:24:00	7.13 pH	18.35 °C	805.37 µS/cm	0.12 mg/L	0.88 NTU	-74.1 mV	25.59 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:52 PM	01:28:00	7.13 pH	18.24 °C	803.28 µS/cm	0.13 mg/L	0.93 NTU	-74.0 mV	26.03 ft	0.40 PSU	150.00 ml/min
3/30/2021 1:56 PM	01:32:00	7.13 pH	18.31 °C	801.79 µS/cm	0.12 mg/L	1.32 NTU	-74.6 mV	26.52 ft	0.40 PSU	150.00 ml/min
3/30/2021 2:00 PM	01:36:00	7.14 pH	18.34 °C	799.68 µS/cm	0.12 mg/L	1.21 NTU	-76.2 mV	26.91 ft	0.40 PSU	150.00 ml/min
3/30/2021 2:04 PM	01:40:00	7.14 pH	18.24 °C	796.31 µS/cm	0.12 mg/L	0.91 NTU	-76.2 mV	27.34 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:08 PM	01:44:00	7.14 pH	18.24 °C	794.71 µS/cm	0.12 mg/L	1.02 NTU	-77.2 mV	27.68 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:12 PM	01:48:00	7.15 pH	18.34 °C	794.36 µS/cm	0.13 mg/L	1.11 NTU	-77.8 mV	28.07 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:16 PM	01:52:00	7.15 pH	18.37 °C	792.29 µS/cm	0.12 mg/L	0.99 NTU	-78.1 mV	28.50 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:20 PM	01:56:00	7.15 pH	18.40 °C	789.61 µS/cm	0.13 mg/L	0.83 NTU	-78.3 mV	28.84 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:24 PM	02:00:00	7.15 pH	18.42 °C	787.42 µS/cm	0.12 mg/L	1.03 NTU	-79.3 mV	29.18 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:28 PM	02:04:00	7.15 pH	18.49 °C	785.04 µS/cm	0.13 mg/L	0.83 NTU	-78.8 mV	29.52 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:32 PM	02:08:00	7.16 pH	18.53 °C	784.47 µS/cm	0.13 mg/L	2.02 NTU	-79.5 mV	29.90 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:36 PM	02:12:00	7.16 pH	18.51 °C	781.16 µS/cm	0.14 mg/L	1.25 NTU	-79.3 mV	30.21 ft	0.39 PSU	150.00 ml/min
3/30/2021 2:40 PM	02:16:00	7.17 pH	18.53 °C	778.91 µS/cm	0.16 mg/L	1.04 NTU	-78.6 mV	30.53 ft	0.38 PSU	150.00 ml/min
3/30/2021 2:44 PM	02:20:00	7.17 pH	18.53 °C	778.33 µS/cm	0.18 mg/L	0.98 NTU	-79.5 mV	30.81 ft	0.38 PSU	150.00 ml/min
3/30/2021 2:48 PM	02:24:00	7.18 pH	18.55 °C	776.44 µS/cm	0.20 mg/L	1.02 NTU	-79.1 mV	30.97 ft	0.38 PSU	150.00 ml/min
3/30/2021 2:52 PM	02:28:00	7.18 pH	18.53 °C	773.59 µS/cm	0.22 mg/L	0.96 NTU	-78.2 mV	31.11 ft	0.38 PSU	150.00 ml/min
3/30/2021 2:56 PM	02:32:00	7.19 pH	18.51 °C	775.21 µS/cm	0.23 mg/L	0.89 NTU	-78.9 mV	31.25 ft	0.38 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-34D	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/26/2021 1:09:53 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-35D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.94 ft Total Depth: 80.94 ft Initial Depth to Water: 26.11 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 75.94 ft Estimated Total Volume Pumped: 8160 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 1.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 1:09 PM	00:00	6.91 pH	19.85 °C	2,780.7 µS/cm	1.47 mg/L	1.39 NTU	26.9 mV	26.11 ft	1.46 PSU	170.00 ml/min
3/26/2021 1:13 PM	04:00	7.02 pH	19.07 °C	2,542.3 µS/cm	0.54 mg/L	2.42 NTU	26.9 mV	26.84 ft	1.33 PSU	170.00 ml/min
3/26/2021 1:17 PM	08:00	7.02 pH	18.91 °C	2,589.1 µS/cm	0.33 mg/L	1.89 NTU	26.3 mV	26.91 ft	1.35 PSU	170.00 ml/min
3/26/2021 1:21 PM	12:00	7.02 pH	18.84 °C	2,621.6 µS/cm	0.25 mg/L	1.26 NTU	26.3 mV	26.98 ft	1.37 PSU	170.00 ml/min
3/26/2021 1:25 PM	16:00	7.03 pH	18.95 °C	2,682.0 µS/cm	0.20 mg/L	1.43 NTU	26.4 mV	27.03 ft	1.40 PSU	170.00 ml/min
3/26/2021 1:29 PM	20:00	6.95 pH	18.86 °C	2,759.7 µS/cm	0.19 mg/L	1.27 NTU	18.1 mV	27.09 ft	1.45 PSU	170.00 ml/min
3/26/2021 1:33 PM	24:00	6.81 pH	18.97 °C	2,976.2 µS/cm	0.19 mg/L	1.13 NTU	-5.6 mV	27.13 ft	1.57 PSU	170.00 ml/min
3/26/2021 1:37 PM	28:00	6.88 pH	19.02 °C	3,220.5 µS/cm	0.20 mg/L	1.74 NTU	-4.4 mV	27.13 ft	1.70 PSU	170.00 ml/min
3/26/2021 1:41 PM	32:00	6.93 pH	19.00 °C	3,355.0 µS/cm	0.19 mg/L	1.67 NTU	-3.4 mV	27.13 ft	1.78 PSU	170.00 ml/min
3/26/2021 1:45 PM	36:00	6.96 pH	19.05 °C	3,425.2 µS/cm	0.18 mg/L	1.56 NTU	-2.8 mV	27.13 ft	1.82 PSU	170.00 ml/min
3/26/2021 1:49 PM	40:00	6.99 pH	19.09 °C	3,449.3 µS/cm	0.18 mg/L	1.72 NTU	-2.9 mV	27.13 ft	1.83 PSU	170.00 ml/min
3/26/2021 1:53 PM	44:00	7.01 pH	19.04 °C	3,460.3 µS/cm	0.18 mg/L	1.46 NTU	-3.0 mV	27.13 ft	1.84 PSU	170.00 ml/min
3/26/2021 1:57 PM	48:00	7.02 pH	19.11 °C	3,478.6 µS/cm	0.18 mg/L	1.49 NTU	-2.8 mV	27.13 ft	1.85 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWC-35D	Metals, Inorganic, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/25/2021 3:34:31 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWC-36D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 86.35 ft Total Depth: 96.35 ft Initial Depth to Water: 25.3 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 91.35 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/25/2021 3:34 PM	00:00	7.15 pH	18.57 °C	1,387.1 µS/cm	3.35 mg/L	0.08 NTU	72.0 mV	25.30 ft	0.70 PSU	200.00 ml/min
3/25/2021 3:38 PM	04:00	7.24 pH	19.67 °C	1,421.8 µS/cm	0.82 mg/L	0.02 NTU	51.6 mV	25.30 ft	0.72 PSU	200.00 ml/min
3/25/2021 3:42 PM	08:00	7.24 pH	19.04 °C	1,412.0 µS/cm	0.83 mg/L	0.03 NTU	43.9 mV	25.30 ft	0.72 PSU	200.00 ml/min
3/25/2021 3:46 PM	12:00	7.22 pH	19.31 °C	1,425.2 µS/cm	0.96 mg/L	0.04 NTU	39.7 mV	25.30 ft	0.72 PSU	200.00 ml/min
3/25/2021 3:50 PM	16:00	7.25 pH	20.13 °C	1,420.3 µS/cm	0.65 mg/L	0.08 NTU	37.1 mV	25.30 ft	0.72 PSU	200.00 ml/min
3/25/2021 3:54 PM	20:00	7.27 pH	20.31 °C	1,412.0 µS/cm	0.43 mg/L	0.07 NTU	35.3 mV	25.30 ft	0.72 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWC-36D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/26/2021 12:20:42 PM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-37D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 99.5 ft Total Depth: 109.5 ft Initial Depth to Water: 25.33 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 104.5 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1.49 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/26/2021 12:20 PM	00:00	7.17 pH	18.92 °C	883.86 µS/cm	0.66 mg/L	1.02 NTU	-113.4 mV	25.33 ft	0.44 PSU	180.00 ml/min
3/26/2021 12:24 PM	04:00	7.18 pH	18.99 °C	894.16 µS/cm	0.72 mg/L	1.22 NTU	-73.8 mV	26.82 ft	0.44 PSU	180.00 ml/min
3/26/2021 12:28 PM	08:00	7.15 pH	19.08 °C	897.27 µS/cm	0.41 mg/L	2.31 NTU	-59.6 mV	26.82 ft	0.45 PSU	180.00 ml/min
3/26/2021 12:32 PM	12:00	7.14 pH	19.02 °C	900.44 µS/cm	0.25 mg/L	1.82 NTU	-56.5 mV	26.82 ft	0.45 PSU	180.00 ml/min
3/26/2021 12:36 PM	16:00	7.14 pH	19.04 °C	896.10 µS/cm	0.20 mg/L	1.34 NTU	-57.5 mV	26.82 ft	0.45 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWC-37D	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 11:30:28 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWC-38D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 118.11 ft Total Depth: 128.11 ft Initial Depth to Water: 20.97 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 123.11 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 11:30 AM	00:00	6.90 pH	19.98 °C	1,188.4 µS/cm	0.07 mg/L	0.18 NTU	-12.2 mV	20.98 ft	0.60 PSU	160.00 ml/min
3/29/2021 11:34 AM	04:00	6.94 pH	20.21 °C	1,214.2 µS/cm	0.06 mg/L	0.04 NTU	-8.9 mV	20.98 ft	0.61 PSU	160.00 ml/min
3/29/2021 11:38 AM	08:00	6.97 pH	20.74 °C	1,218.8 µS/cm	0.05 mg/L	0.09 NTU	-10.1 mV	20.98 ft	0.61 PSU	160.00 ml/min
3/29/2021 11:42 AM	12:00	6.99 pH	20.87 °C	1,227.1 µS/cm	0.05 mg/L	0.07 NTU	-10.3 mV	20.98 ft	0.62 PSU	160.00 ml/min
3/29/2021 11:46 AM	16:00	7.01 pH	20.96 °C	1,235.5 µS/cm	0.04 mg/L	0.02 NTU	-11.4 mV	20.98 ft	0.62 PSU	160.00 ml/min
3/29/2021 11:50 AM	20:00	7.02 pH	20.92 °C	1,245.3 µS/cm	0.04 mg/L	0.03 NTU	-11.7 mV	20.98 ft	0.63 PSU	160.00 ml/min

Samples

Sample ID:	Description:
BGWC-38D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/31/2021 9:38:02 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-39 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.27 ft Total Depth: 28.27 ft Initial Depth to Water: 19.07 ft	Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 23.27 ft Estimated Total Volume Pumped: 2200 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.27 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Well started in screen. Well historically does not purge dry. Sampling approved by PR per previous sampling.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/31/2021 9:38 AM	00:00	6.76 pH	16.65 °C	2,424.7 µS/cm	1.00 mg/L	1.40 NTU	105.0 mV	19.66 ft	1.26 PSU	110.00 ml/min
3/31/2021 9:42 AM	04:00	6.77 pH	16.65 °C	2,420.4 µS/cm	0.95 mg/L	0.88 NTU	85.1 mV	19.76 ft	1.26 PSU	110.00 ml/min
3/31/2021 9:46 AM	08:00	6.78 pH	16.66 °C	2,416.2 µS/cm	0.90 mg/L	1.71 NTU	82.5 mV	19.91 ft	1.25 PSU	110.00 ml/min
3/31/2021 9:50 AM	12:00	6.79 pH	16.68 °C	2,403.8 µS/cm	0.88 mg/L	1.38 NTU	87.3 mV	20.05 ft	1.25 PSU	110.00 ml/min
3/31/2021 9:54 AM	16:00	6.79 pH	16.60 °C	2,396.9 µS/cm	0.86 mg/L	1.06 NTU	89.6 mV	20.20 ft	1.24 PSU	110.00 ml/min
3/31/2021 9:58 AM	20:00	6.80 pH	16.66 °C	2,361.1 µS/cm	0.85 mg/L	0.99 NTU	91.0 mV	20.34 ft	1.22 PSU	110.00 ml/min

Samples

Sample ID:	Description:
BGWC-39	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/30/2021 1:43:41 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-40 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.74 ft Total Depth: 62.74 ft Initial Depth to Water: 20.63 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 57.74 ft Estimated Total Volume Pumped: 17720 ml Flow Cell Volume: 90 ml Final Flow Rate: 190 ml/min Final Draw Down: 0.59 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Increased pump rate to 150 at 32:00, 170 at 44:00, and 190 mL/min at 01:04:00 to lower turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 1:43 PM	00:00	7.17 pH	18.66 °C	1,231.9 µS/cm	1.85 mg/L	19.30 NTU	36.0 mV	21.06 ft	0.62 PSU	130.00 ml/min
3/30/2021 1:47 PM	04:00	7.17 pH	18.32 °C	1,248.6 µS/cm	1.89 mg/L	16.40 NTU	29.9 mV	21.06 ft	0.63 PSU	130.00 ml/min
3/30/2021 1:51 PM	08:00	7.17 pH	18.35 °C	1,250.5 µS/cm	1.93 mg/L	11.90 NTU	27.5 mV	21.07 ft	0.63 PSU	130.00 ml/min
3/30/2021 1:55 PM	12:00	7.18 pH	18.04 °C	1,245.2 µS/cm	1.95 mg/L	8.78 NTU	26.4 mV	21.07 ft	0.63 PSU	130.00 ml/min
3/30/2021 1:59 PM	16:00	7.17 pH	18.08 °C	1,247.0 µS/cm	1.84 mg/L	10.42 NTU	25.6 mV	21.07 ft	0.63 PSU	130.00 ml/min
3/30/2021 2:03 PM	20:00	7.18 pH	18.01 °C	1,242.5 µS/cm	1.83 mg/L	14.70 NTU	25.1 mV	21.07 ft	0.63 PSU	130.00 ml/min
3/30/2021 2:07 PM	24:00	7.17 pH	17.97 °C	1,243.8 µS/cm	1.72 mg/L	15.30 NTU	24.7 mV	21.07 ft	0.63 PSU	130.00 ml/min
3/30/2021 2:11 PM	28:00	7.16 pH	17.95 °C	1,240.6 µS/cm	1.57 mg/L	15.50 NTU	24.2 mV	21.07 ft	0.62 PSU	130.00 ml/min
3/30/2021 2:15 PM	32:00	7.15 pH	17.90 °C	1,239.2 µS/cm	1.45 mg/L	13.70 NTU	23.5 mV	21.10 ft	0.62 PSU	150.00 ml/min
3/30/2021 2:19 PM	36:00	7.15 pH	17.91 °C	1,240.7 µS/cm	1.40 mg/L	13.20 NTU	23.2 mV	21.10 ft	0.62 PSU	150.00 ml/min
3/30/2021 2:23 PM	40:00	7.14 pH	17.97 °C	1,237.2 µS/cm	1.29 mg/L	13.40 NTU	22.8 mV	21.10 ft	0.62 PSU	150.00 ml/min
3/30/2021 2:27 PM	44:00	7.14 pH	17.90 °C	1,238.3 µS/cm	1.35 mg/L	12.60 NTU	22.4 mV	21.15 ft	0.62 PSU	170.00 ml/min
3/30/2021 2:31 PM	48:00	7.14 pH	17.90 °C	1,235.8 µS/cm	1.35 mg/L	12.30 NTU	22.1 mV	21.15 ft	0.62 PSU	170.00 ml/min
3/30/2021 2:35 PM	52:00	7.13 pH	17.81 °C	1,233.4 µS/cm	1.25 mg/L	10.87 NTU	21.8 mV	21.15 ft	0.62 PSU	170.00 ml/min
3/30/2021 2:39 PM	56:00	7.12 pH	17.86 °C	1,234.4 µS/cm	1.17 mg/L	9.84 NTU	21.1 mV	21.15 ft	0.62 PSU	170.00 ml/min

3/30/2021 2:43 PM	01:00:00	7.11 pH	17.85 °C	1,232.6 µS/cm	1.11 mg/L	9.26 NTU	20.9 mV	21.15 ft	0.62 PSU	170.00 ml/min
3/30/2021 2:47 PM	01:04:00	7.10 pH	17.75 °C	1,233.7 µS/cm	1.06 mg/L	8.85 NTU	20.6 mV	21.20 ft	0.62 PSU	190.00 ml/min
3/30/2021 2:51 PM	01:08:00	7.09 pH	17.86 °C	1,234.2 µS/cm	1.02 mg/L	8.06 NTU	20.4 mV	21.20 ft	0.62 PSU	190.00 ml/min
3/30/2021 2:55 PM	01:12:00	7.08 pH	17.90 °C	1,233.3 µS/cm	0.97 mg/L	7.37 NTU	20.2 mV	21.20 ft	0.62 PSU	190.00 ml/min
3/30/2021 2:59 PM	01:16:00	7.08 pH	17.84 °C	1,232.7 µS/cm	0.92 mg/L	7.06 NTU	20.0 mV	21.20 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:03 PM	01:20:00	7.07 pH	17.99 °C	1,234.0 µS/cm	0.87 mg/L	6.88 NTU	19.9 mV	21.20 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:07 PM	01:24:00	7.06 pH	17.99 °C	1,230.3 µS/cm	0.83 mg/L	6.10 NTU	19.8 mV	21.21 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:11 PM	01:28:00	7.06 pH	17.76 °C	1,233.5 µS/cm	0.81 mg/L	5.92 NTU	19.7 mV	21.21 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:15 PM	01:32:00	7.05 pH	17.81 °C	1,234.6 µS/cm	0.79 mg/L	5.46 NTU	19.6 mV	21.21 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:19 PM	01:36:00	7.05 pH	17.98 °C	1,235.5 µS/cm	0.77 mg/L	5.14 NTU	19.5 mV	21.22 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:23 PM	01:40:00	7.05 pH	18.01 °C	1,233.5 µS/cm	0.76 mg/L	4.85 NTU	19.5 mV	21.22 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:27 PM	01:44:00	7.04 pH	18.03 °C	1,234.3 µS/cm	0.74 mg/L	4.59 NTU	19.3 mV	21.22 ft	0.62 PSU	190.00 ml/min
3/30/2021 3:31 PM	01:48:00	7.04 pH	18.00 °C	1,230.9 µS/cm	0.72 mg/L	4.23 NTU	19.3 mV	21.22 ft	0.62 PSU	190.00 ml/min

Samples

Sample ID:	Description:
BGWC-40	Metals, Inorganics, TDS, Radium
DUP-3	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/31/2021 11:11:37 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-41D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.26 ft Total Depth: 58.26 ft Initial Depth to Water: 16.34 ft	Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 53.26 ft Estimated Total Volume Pumped: 3520 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.94 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Pulled off for lightning.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/31/2021 11:11 AM	00:00	7.17 pH	16.59 °C	1,688.9 µS/cm	0.39 mg/L	14.50 NTU	-69.1 mV	17.60 ft	0.86 PSU	110.00 ml/min
3/31/2021 11:15 AM	04:00	7.21 pH	16.58 °C	1,688.2 µS/cm	0.34 mg/L	16.60 NTU	-86.3 mV	17.70 ft	0.86 PSU	110.00 ml/min
3/31/2021 11:19 AM	08:00	7.24 pH	16.55 °C	1,677.5 µS/cm	0.31 mg/L	13.00 NTU	-97.1 mV	17.84 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:23 AM	12:00	7.26 pH	16.51 °C	1,676.4 µS/cm	0.28 mg/L	12.70 NTU	-103.5 mV	17.96 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:27 AM	16:00	7.28 pH	16.59 °C	1,672.9 µS/cm	0.27 mg/L	11.80 NTU	-109.1 mV	18.05 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:31 AM	20:00	7.30 pH	16.61 °C	1,667.3 µS/cm	0.24 mg/L	10.22 NTU	-112.7 mV	18.12 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:35 AM	24:00	7.30 pH	16.60 °C	1,671.2 µS/cm	0.24 mg/L	11.02 NTU	-115.8 mV	18.18 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:39 AM	28:00	7.32 pH	16.60 °C	1,667.8 µS/cm	0.24 mg/L	15.50 NTU	-116.2 mV	18.23 ft	0.85 PSU	110.00 ml/min
3/31/2021 11:43 AM	32:00	7.33 pH	16.56 °C	1,661.3 µS/cm	0.22 mg/L	9.85 NTU	-117.3 mV	18.28 ft	0.85 PSU	110.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/31/2021 12:48:06 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-41D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.26 ft Total Depth: 58.26 ft Initial Depth to Water: 16.59 ft	Pump Type: GeoTech Peristaltic Tubing Type: LDPE Pump Intake From TOC: 53.26 ft Estimated Total Volume Pumped: 6600 ml Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 1.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 0.5 L

Resumed trolling after lightning delay.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/31/2021 12:48 PM	00:00	7.42 pH	16.47 °C	1,659.9 µS/cm	0.87 mg/L	12.60 NTU	-116.6 mV	17.08 ft	0.85 PSU	110.00 ml/min
3/31/2021 12:52 PM	04:00	7.42 pH	16.56 °C	1,646.9 µS/cm	0.30 mg/L	8.42 NTU	-116.2 mV	17.28 ft	0.84 PSU	110.00 ml/min
3/31/2021 12:56 PM	08:00	7.43 pH	16.61 °C	1,643.8 µS/cm	0.21 mg/L	10.23 NTU	-115.8 mV	17.47 ft	0.84 PSU	110.00 ml/min
3/31/2021 1:00 PM	12:00	7.44 pH	16.65 °C	1,637.3 µS/cm	0.20 mg/L	10.90 NTU	-114.7 mV	17.63 ft	0.83 PSU	110.00 ml/min
3/31/2021 1:04 PM	16:00	7.44 pH	16.69 °C	1,629.5 µS/cm	0.21 mg/L	8.01 NTU	-113.2 mV	17.73 ft	0.83 PSU	110.00 ml/min
3/31/2021 1:08 PM	20:00	7.44 pH	16.73 °C	1,621.3 µS/cm	0.24 mg/L	6.40 NTU	-109.2 mV	17.81 ft	0.83 PSU	110.00 ml/min
3/31/2021 1:12 PM	24:00	7.44 pH	16.69 °C	1,608.3 µS/cm	0.26 mg/L	4.93 NTU	-105.5 mV	17.85 ft	0.82 PSU	110.00 ml/min
3/31/2021 1:16 PM	28:00	7.44 pH	16.69 °C	1,601.2 µS/cm	0.26 mg/L	5.19 NTU	-104.2 mV	17.89 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:20 PM	32:00	7.44 pH	16.82 °C	1,601.2 µS/cm	0.24 mg/L	2.92 NTU	-102.9 mV	17.93 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:24 PM	36:00	7.44 pH	16.86 °C	1,593.7 µS/cm	0.23 mg/L	5.76 NTU	-102.6 mV	17.95 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:28 PM	40:00	7.44 pH	16.86 °C	1,592.1 µS/cm	0.23 mg/L	5.55 NTU	-101.5 mV	17.97 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:32 PM	44:00	7.44 pH	16.92 °C	1,592.6 µS/cm	0.22 mg/L	4.38 NTU	-100.7 mV	17.97 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:36 PM	48:00	7.44 pH	17.01 °C	1,585.8 µS/cm	0.22 mg/L	5.22 NTU	-99.7 mV	17.98 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:40 PM	52:00	7.44 pH	16.87 °C	1,588.0 µS/cm	0.23 mg/L	3.53 NTU	-99.0 mV	17.98 ft	0.81 PSU	110.00 ml/min
3/31/2021 1:44 PM	56:00	7.44 pH	16.87 °C	1,586.2 µS/cm	0.25 mg/L	3.30 NTU	-98.1 mV	17.99 ft	0.81 PSU	110.00 ml/min

3/31/2021 1:48 PM	01:00:00	7.44 pH	16.85 °C	1,581.6 µS/cm	0.24 mg/L	2.74 NTU	-97.0 mV	17.99 ft	0.80 PSU	110.00 ml/min
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Samples

Sample ID:	Description:
BGWC-41D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 4/1/2021 10:37:28 AM

Project: Plant Bowen March 2021 AP Semiannual

Operator Name: Joe Booth

Location Name: BGWC-42D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 143.74 ft Total Depth: 153.74 ft Initial Depth to Water: 25.47 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 148.74 ft Estimated Total Volume Pumped: 3300 ml Flow Cell Volume: 90 ml Final Flow Rate: 165 ml/min Final Draw Down: 0.86 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
4/1/2021 10:37 AM	00:00	7.31 pH	16.55 °C	716.57 µS/cm	0.94 mg/L	5.73 NTU	-224.4 mV	25.47 ft	0.35 PSU	165.00 ml/min
4/1/2021 10:41 AM	04:00	7.34 pH	16.64 °C	721.71 µS/cm	0.61 mg/L	3.98 NTU	-271.3 mV	26.27 ft	0.36 PSU	165.00 ml/min
4/1/2021 10:45 AM	08:00	7.41 pH	16.59 °C	734.85 µS/cm	0.44 mg/L	4.13 NTU	-290.1 mV	26.31 ft	0.36 PSU	165.00 ml/min
4/1/2021 10:49 AM	12:00	7.43 pH	16.72 °C	748.32 µS/cm	0.34 mg/L	3.93 NTU	-296.4 mV	26.33 ft	0.37 PSU	165.00 ml/min
4/1/2021 10:53 AM	16:00	7.44 pH	16.81 °C	760.73 µS/cm	0.28 mg/L	3.98 NTU	-299.1 mV	26.33 ft	0.38 PSU	165.00 ml/min
4/1/2021 10:57 AM	20:00	7.44 pH	16.99 °C	777.44 µS/cm	0.28 mg/L	3.39 NTU	-298.3 mV	26.33 ft	0.38 PSU	165.00 ml/min

Samples

Sample ID:	Description:
BGWC-42D	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/29/2021 2:04:21 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWC-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 156.01 ft Total Depth: 166.01 ft Initial Depth to Water: 20.69 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 161.01 ft Estimated Total Volume Pumped: 3200 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 7 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/29/2021 2:04 PM	00:00	7.01 pH	21.99 °C	2,239.6 µS/cm	0.08 mg/L	1.65 NTU	-22.5 mV	20.70 ft	1.16 PSU	200.00 ml/min
3/29/2021 2:08 PM	04:00	7.01 pH	21.59 °C	2,252.6 µS/cm	0.06 mg/L	1.87 NTU	-15.6 mV	20.70 ft	1.17 PSU	200.00 ml/min
3/29/2021 2:12 PM	08:00	7.02 pH	21.45 °C	2,252.3 µS/cm	0.05 mg/L	1.23 NTU	-14.1 mV	20.70 ft	1.17 PSU	200.00 ml/min
3/29/2021 2:16 PM	12:00	7.02 pH	21.55 °C	2,251.2 µS/cm	0.04 mg/L	0.73 NTU	-14.2 mV	20.70 ft	1.17 PSU	200.00 ml/min
3/29/2021 2:20 PM	16:00	7.02 pH	21.44 °C	2,249.2 µS/cm	0.03 mg/L	0.69 NTU	-13.6 mV	20.70 ft	1.17 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWC-43D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/31/2021 1:38:10 PM

Project: Plant Bowen March 2021 AP Semiannual (4)

Operator Name: Joe Booth

Location Name: BGWC-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 132.79 ft Total Depth: 142.79 ft Initial Depth to Water: 39.03 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 138 ft Estimated Total Volume Pumped: 4800 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789310
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Test Notes:

Prepurge 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/31/2021 1:38 PM	00:00	7.48 pH	17.70 °C	438.77 µS/cm	0.80 mg/L	3.84 NTU	-29.2 mV	39.03 ft	0.21 PSU	150.00 ml/min
3/31/2021 1:42 PM	04:00	7.47 pH	17.54 °C	592.11 µS/cm	1.41 mg/L	7.99 NTU	-61.5 mV	40.11 ft	0.29 PSU	150.00 ml/min
3/31/2021 1:46 PM	08:00	7.40 pH	17.46 °C	599.72 µS/cm	0.66 mg/L	5.99 NTU	-99.8 mV	40.63 ft	0.29 PSU	150.00 ml/min
3/31/2021 1:50 PM	12:00	7.37 pH	17.39 °C	595.62 µS/cm	0.41 mg/L	4.43 NTU	-133.2 mV	41.05 ft	0.29 PSU	150.00 ml/min
3/31/2021 1:54 PM	16:00	7.36 pH	17.35 °C	594.81 µS/cm	0.30 mg/L	4.56 NTU	-166.5 mV	41.33 ft	0.29 PSU	150.00 ml/min
3/31/2021 1:58 PM	20:00	7.35 pH	17.39 °C	596.94 µS/cm	0.23 mg/L	3.59 NTU	-207.3 mV	41.62 ft	0.29 PSU	150.00 ml/min
3/31/2021 2:02 PM	24:00	7.36 pH	17.44 °C	598.97 µS/cm	0.19 mg/L	3.50 NTU	-249.8 mV	41.88 ft	0.29 PSU	150.00 ml/min
3/31/2021 2:06 PM	28:00	7.38 pH	17.44 °C	601.38 µS/cm	0.17 mg/L	3.42 NTU	-273.0 mV	41.96 ft	0.29 PSU	150.00 ml/min
3/31/2021 2:10 PM	32:00	7.40 pH	17.43 °C	604.21 µS/cm	0.14 mg/L	3.23 NTU	-281.4 mV	42.10 ft	0.30 PSU	150.00 ml/min

Samples

Sample ID:	Description:
BGWC-44D	Metals, Inorganic, TDS, Radium
DUP-4	Metals, Inorganic, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/25/2021 3:43:45 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWA-47D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 144.96 ft Total Depth: 154.96 ft Initial Depth to Water: 52.69 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 149.96 ft Estimated Total Volume Pumped: 2880 ml Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepured 1 L

Turbidity monitored throughout sampling.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/25/2021 3:43 PM	00:00	6.95 pH	17.23 °C	664.61 µS/cm	0.60 mg/L	2.16 NTU	9.4 mV	52.69 ft	0.33 PSU	180.00 ml/min
3/25/2021 3:47 PM	04:00	6.95 pH	17.24 °C	662.19 µS/cm	0.41 mg/L	2.02 NTU	9.8 mV	52.69 ft	0.33 PSU	180.00 ml/min
3/25/2021 3:51 PM	08:00	6.95 pH	17.26 °C	661.77 µS/cm	0.36 mg/L	2.31 NTU	10.4 mV	52.69 ft	0.32 PSU	180.00 ml/min
3/25/2021 3:55 PM	12:00	6.95 pH	17.27 °C	660.64 µS/cm	0.33 mg/L	2.01 NTU	10.8 mV	52.69 ft	0.32 PSU	180.00 ml/min
3/25/2021 3:59 PM	16:00	6.94 pH	17.28 °C	660.13 µS/cm	0.32 mg/L	1.74 NTU	11.2 mV	52.69 ft	0.32 PSU	180.00 ml/min

Samples

Sample ID:	Description:
BGWA-47D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/25/2021 10:28:03 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWA-48D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 184.79 ft Total Depth: 194.79 ft Initial Depth to Water: 52.49 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 189.79 ft Estimated Total Volume Pumped: 8320 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 4.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 7 L

Large white flaky sediment at the start of pumping. Lowered pump rate to 120 mL/min at 16:00 to lower turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/25/2021 10:28 AM	00:00	7.07 pH	18.17 °C	504.26 µS/cm	0.26 mg/L	6.79 NTU	35.3 mV	57.03 ft	0.25 PSU	160.00 ml/min
3/25/2021 10:32 AM	04:00	7.13 pH	17.60 °C	509.57 µS/cm	0.19 mg/L	4.11 NTU	24.2 mV	57.10 ft	0.25 PSU	160.00 ml/min
3/25/2021 10:36 AM	08:00	7.14 pH	17.54 °C	509.71 µS/cm	0.17 mg/L	8.52 NTU	17.6 mV	57.19 ft	0.25 PSU	160.00 ml/min
3/25/2021 10:40 AM	12:00	7.15 pH	17.49 °C	510.86 µS/cm	0.17 mg/L	13.60 NTU	12.3 mV	57.28 ft	0.25 PSU	160.00 ml/min
3/25/2021 10:44 AM	16:00	7.16 pH	17.48 °C	511.25 µS/cm	0.17 mg/L	19.50 NTU	6.9 mV	57.29 ft	0.25 PSU	120.00 ml/min
3/25/2021 10:48 AM	20:00	7.16 pH	17.45 °C	511.94 µS/cm	0.17 mg/L	21.80 NTU	2.1 mV	57.19 ft	0.25 PSU	120.00 ml/min
3/25/2021 10:52 AM	24:00	7.17 pH	17.50 °C	512.19 µS/cm	0.17 mg/L	15.20 NTU	-2.3 mV	57.11 ft	0.25 PSU	120.00 ml/min
3/25/2021 10:56 AM	28:00	7.17 pH	17.59 °C	512.80 µS/cm	0.17 mg/L	9.37 NTU	-4.6 mV	57.04 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:00 AM	32:00	7.18 pH	17.65 °C	513.00 µS/cm	0.16 mg/L	9.03 NTU	-7.3 mV	57.00 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:04 AM	36:00	7.19 pH	17.59 °C	513.76 µS/cm	0.16 mg/L	5.73 NTU	-10.9 mV	56.94 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:08 AM	40:00	7.19 pH	17.59 °C	514.73 µS/cm	0.16 mg/L	7.61 NTU	-15.5 mV	56.90 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:12 AM	44:00	7.19 pH	17.59 °C	515.34 µS/cm	0.16 mg/L	7.09 NTU	-21.3 mV	56.88 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:16 AM	48:00	7.19 pH	17.63 °C	516.11 µS/cm	0.16 mg/L	6.10 NTU	-27.8 mV	56.85 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:20 AM	52:00	7.20 pH	17.67 °C	517.21 µS/cm	0.16 mg/L	5.39 NTU	-35.1 mV	56.82 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:24 AM	56:00	7.21 pH	17.78 °C	517.92 µS/cm	0.16 mg/L	4.20 NTU	-42.2 mV	56.81 ft	0.25 PSU	120.00 ml/min

3/25/2021 11:28 AM	01:00:00	7.21 pH	17.81 °C	518.77 µS/cm	0.16 mg/L	4.33 NTU	-48.2 mV	56.79 ft	0.25 PSU	120.00 ml/min
3/25/2021 11:32 AM	01:04:00	7.22 pH	17.81 °C	519.49 µS/cm	0.16 mg/L	2.96 NTU	-53.0 mV	56.78 ft	0.25 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWA-48D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 4/19/2021 1:21:52 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-49D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 300.68 ft Total Depth: 310.68 ft Initial Depth to Water: 21.5 ft	Pump Type: Solinst Model 408 Tubing Type: LDPE Pump Intake From TOC: 305.68 ft Estimated Total Volume Pumped: 31120 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 31.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 2 L

Took 3 and a half hours to stabilize drawdown.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
4/19/2021 1:21 PM	00:00	7.43 pH	22.32 °C	1,917.9 µS/cm	0.21 mg/L	4.30 NTU	-32.5 mV	25.07 ft	0.99 PSU	120.00 ml/min
4/19/2021 1:25 PM	04:00	7.44 pH	22.27 °C	1,924.5 µS/cm	0.13 mg/L	3.49 NTU	-24.7 mV	25.50 ft	0.99 PSU	120.00 ml/min
4/19/2021 1:29 PM	08:00	7.44 pH	22.31 °C	1,927.0 µS/cm	0.10 mg/L	3.70 NTU	-22.7 mV	26.04 ft	0.99 PSU	120.00 ml/min
4/19/2021 1:33 PM	12:00	7.45 pH	22.12 °C	1,927.9 µS/cm	0.09 mg/L	3.32 NTU	-21.0 mV	26.55 ft	0.99 PSU	120.00 ml/min
4/19/2021 1:37 PM	16:00	7.44 pH	21.73 °C	1,932.1 µS/cm	0.09 mg/L	3.45 NTU	-20.2 mV	27.01 ft	0.99 PSU	105.00 ml/min
4/19/2021 1:41 PM	20:00	7.44 pH	22.44 °C	1,930.6 µS/cm	0.08 mg/L	3.36 NTU	-22.9 mV	27.45 ft	0.99 PSU	105.00 ml/min
4/19/2021 1:45 PM	24:00	7.45 pH	21.99 °C	1,937.4 µS/cm	0.08 mg/L	3.53 NTU	-23.4 mV	27.85 ft	1.00 PSU	105.00 ml/min
4/19/2021 1:49 PM	28:00	7.45 pH	21.91 °C	1,941.2 µS/cm	0.07 mg/L	3.47 NTU	-24.9 mV	28.26 ft	1.00 PSU	105.00 ml/min
4/19/2021 1:53 PM	32:00	7.45 pH	21.86 °C	1,942.6 µS/cm	0.08 mg/L	2.90 NTU	-26.3 mV	28.63 ft	1.00 PSU	105.00 ml/min
4/19/2021 1:57 PM	36:00	7.45 pH	21.13 °C	1,929.3 µS/cm	0.07 mg/L	3.14 NTU	-28.0 mV	29.02 ft	0.99 PSU	105.00 ml/min
4/19/2021 2:01 PM	40:00	7.45 pH	21.67 °C	1,940.9 µS/cm	0.07 mg/L	2.61 NTU	-32.6 mV	29.40 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:05 PM	44:00	7.45 pH	21.59 °C	1,931.3 µS/cm	0.07 mg/L	2.62 NTU	-33.6 mV	29.80 ft	0.99 PSU	105.00 ml/min
4/19/2021 2:09 PM	48:00	7.45 pH	21.64 °C	1,941.5 µS/cm	0.07 mg/L	2.63 NTU	-35.4 mV	30.13 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:13 PM	52:00	7.45 pH	21.47 °C	1,934.7 µS/cm	0.07 mg/L	2.22 NTU	-35.9 mV	30.45 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:17 PM	56:00	7.45 pH	21.48 °C	1,934.2 µS/cm	0.06 mg/L	2.52 NTU	-39.0 mV	30.79 ft	1.00 PSU	105.00 ml/min

4/19/2021 2:21 PM	01:00:00	7.45 pH	21.46 °C	1,935.2 µS/cm	0.08 mg/L	2.29 NTU	-41.0 mV	31.12 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:25 PM	01:04:00	7.45 pH	21.60 °C	1,940.3 µS/cm	0.07 mg/L	2.05 NTU	-43.0 mV	31.45 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:29 PM	01:08:00	7.46 pH	21.24 °C	1,923.2 µS/cm	0.06 mg/L	1.99 NTU	-43.7 mV	31.76 ft	0.99 PSU	105.00 ml/min
4/19/2021 2:33 PM	01:12:00	7.45 pH	21.06 °C	1,943.2 µS/cm	0.06 mg/L	2.29 NTU	-45.2 mV	32.08 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:37 PM	01:16:00	7.46 pH	21.35 °C	1,935.9 µS/cm	0.07 mg/L	2.15 NTU	-46.1 mV	32.40 ft	1.00 PSU	105.00 ml/min
4/19/2021 2:41 PM	01:20:00	7.45 pH	21.41 °C	1,946.0 µS/cm	0.04 mg/L	2.19 NTU	-48.8 mV	32.95 ft	1.00 PSU	220.00 ml/min
4/19/2021 2:45 PM	01:24:00	7.44 pH	21.72 °C	1,946.3 µS/cm	0.03 mg/L	1.87 NTU	-50.5 mV	33.95 ft	1.00 PSU	220.00 ml/min
4/19/2021 2:49 PM	01:28:00	7.45 pH	21.68 °C	1,943.3 µS/cm	0.03 mg/L	2.49 NTU	-41.7 mV	35.00 ft	1.00 PSU	220.00 ml/min
4/19/2021 2:53 PM	01:32:00	7.45 pH	21.70 °C	1,939.6 µS/cm	0.03 mg/L	2.33 NTU	-39.0 mV	36.00 ft	1.00 PSU	220.00 ml/min
4/19/2021 2:57 PM	01:36:00	7.45 pH	21.75 °C	1,948.9 µS/cm	0.03 mg/L	2.12 NTU	-39.3 mV	37.00 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:01 PM	01:40:00	7.45 pH	21.73 °C	1,945.9 µS/cm	0.03 mg/L	2.16 NTU	-39.5 mV	38.00 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:05 PM	01:44:00	7.45 pH	21.77 °C	1,948.0 µS/cm	0.05 mg/L	2.34 NTU	-40.1 mV	38.95 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:09 PM	01:48:00	7.45 pH	21.85 °C	1,947.5 µS/cm	0.03 mg/L	2.71 NTU	-40.4 mV	39.90 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:13 PM	01:52:00	7.45 pH	21.85 °C	1,945.2 µS/cm	0.04 mg/L	2.55 NTU	-41.5 mV	40.80 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:17 PM	01:56:00	7.45 pH	21.91 °C	1,944.0 µS/cm	0.03 mg/L	2.70 NTU	-41.5 mV	41.70 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:21 PM	02:00:00	7.45 pH	21.86 °C	1,945.6 µS/cm	0.04 mg/L	3.15 NTU	-42.6 mV	42.60 ft	1.00 PSU	220.00 ml/min
4/19/2021 3:25 PM	02:04:00	7.45 pH	22.27 °C	1,943.5 µS/cm	0.06 mg/L	2.98 NTU	-43.7 mV	43.10 ft	1.00 PSU	100.00 ml/min
4/19/2021 3:29 PM	02:08:00	7.45 pH	22.13 °C	1,945.6 µS/cm	0.07 mg/L	2.52 NTU	-44.1 mV	43.31 ft	1.00 PSU	100.00 ml/min
4/19/2021 3:33 PM	02:12:00	7.46 pH	22.27 °C	1,942.3 µS/cm	0.07 mg/L	2.78 NTU	-44.9 mV	43.52 ft	1.00 PSU	100.00 ml/min
4/19/2021 3:37 PM	02:16:00	7.46 pH	22.20 °C	1,944.1 µS/cm	0.07 mg/L	2.97 NTU	-47.5 mV	43.71 ft	1.00 PSU	100.00 ml/min
4/19/2021 3:41 PM	02:20:00	7.45 pH	22.04 °C	1,948.5 µS/cm	0.07 mg/L	1.52 NTU	-57.3 mV	43.91 ft	1.00 PSU	100.00 ml/min
4/19/2021 3:45 PM	02:24:00	7.45 pH	21.89 °C	1,971.7 µS/cm	0.04 mg/L	1.43 NTU	-65.4 mV	44.60 ft	1.02 PSU	210.00 ml/min
4/19/2021 3:49 PM	02:28:00	7.45 pH	22.09 °C	1,957.6 µS/cm	0.04 mg/L	1.15 NTU	-60.5 mV	45.50 ft	1.01 PSU	210.00 ml/min
4/19/2021 3:53 PM	02:32:00	7.46 pH	22.09 °C	1,956.7 µS/cm	0.04 mg/L	2.06 NTU	-50.0 mV	46.45 ft	1.01 PSU	240.00 ml/min
4/19/2021 3:57 PM	02:36:00	7.46 pH	22.10 °C	1,959.9 µS/cm	0.04 mg/L	2.53 NTU	-48.6 mV	47.40 ft	1.01 PSU	240.00 ml/min
4/19/2021 4:01 PM	02:40:00	7.46 pH	22.22 °C	1,957.1 µS/cm	0.04 mg/L	1.96 NTU	-47.8 mV	48.30 ft	1.01 PSU	240.00 ml/min
4/19/2021 4:05 PM	02:44:00	7.46 pH	22.17 °C	1,954.5 µS/cm	0.04 mg/L	2.57 NTU	-46.0 mV	49.25 ft	1.01 PSU	240.00 ml/min
4/19/2021 4:09 PM	02:48:00	7.46 pH	22.20 °C	1,966.3 µS/cm	0.04 mg/L	2.76 NTU	-46.2 mV	50.20 ft	1.01 PSU	240.00 ml/min
4/19/2021 4:13 PM	02:52:00	7.46 pH	22.27 °C	1,958.7 µS/cm	0.04 mg/L	3.14 NTU	-45.6 mV	51.15 ft	1.01 PSU	240.00 ml/min

4/19/2021 4:17 PM	02:56:00	7.46 pH	22.31 °C	1,965.9 µS/cm	0.04 mg/L	3.16 NTU	-46.4 mV	52.00 ft	1.01 PSU	240.00 ml/min
4/19/2021 4:21 PM	03:00:00	7.46 pH	22.53 °C	1,962.3 µS/cm	0.07 mg/L	2.88 NTU	-45.9 mV	52.51 ft	1.01 PSU	100.00 ml/min
4/19/2021 4:25 PM	03:04:00	7.46 pH	22.56 °C	1,969.1 µS/cm	0.08 mg/L	2.60 NTU	-47.0 mV	52.67 ft	1.01 PSU	100.00 ml/min
4/19/2021 4:29 PM	03:08:00	7.46 pH	22.47 °C	1,962.2 µS/cm	0.08 mg/L	2.77 NTU	-45.2 mV	52.82 ft	1.01 PSU	100.00 ml/min
4/19/2021 4:33 PM	03:12:00	7.45 pH	22.49 °C	1,984.7 µS/cm	0.08 mg/L	2.99 NTU	-51.0 mV	53.00 ft	1.02 PSU	100.00 ml/min
4/19/2021 4:37 PM	03:16:00	7.45 pH	22.75 °C	1,999.1 µS/cm	0.08 mg/L	2.19 NTU	-59.8 mV	53.12 ft	1.03 PSU	100.00 ml/min
4/19/2021 4:41 PM	03:20:00	7.45 pH	22.98 °C	2,007.8 µS/cm	0.09 mg/L	1.84 NTU	-63.3 mV	53.26 ft	1.04 PSU	100.00 ml/min
4/19/2021 4:45 PM	03:24:00	7.45 pH	22.82 °C	2,008.1 µS/cm	0.09 mg/L	1.79 NTU	-63.0 mV	53.40 ft	1.04 PSU	100.00 ml/min

Samples

Sample ID:	Description:
BGWC-49D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 4/19/2021 10:30:04 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: William Laaker

Location Name: BGWC-50D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 177.28 ft Total Depth: 187.28 ft Initial Depth to Water: 40.29 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 182.28 ft Estimated Total Volume Pumped: 7680 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 4.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 2 L

Water started with milky color due to a fine white sediment.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
4/19/2021 10:30 AM	00:00	7.57 pH	19.28 °C	545.32 µS/cm	0.56 mg/L	19.50 NTU	-8.0 mV	42.86 ft	0.27 PSU	120.00 ml/min
4/19/2021 10:34 AM	04:00	7.56 pH	19.17 °C	537.92 µS/cm	0.34 mg/L	15.70 NTU	-21.2 mV	43.13 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:38 AM	08:00	7.55 pH	19.30 °C	535.73 µS/cm	0.26 mg/L	11.20 NTU	-45.7 mV	43.45 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:42 AM	12:00	7.55 pH	19.46 °C	536.41 µS/cm	0.23 mg/L	11.10 NTU	-69.5 mV	43.71 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:46 AM	16:00	7.55 pH	19.50 °C	534.70 µS/cm	0.22 mg/L	9.90 NTU	-84.6 mV	43.85 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:50 AM	20:00	7.54 pH	19.50 °C	534.13 µS/cm	0.20 mg/L	9.63 NTU	-96.2 mV	44.00 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:54 AM	24:00	7.55 pH	19.36 °C	530.67 µS/cm	0.18 mg/L	8.82 NTU	-104.2 mV	44.16 ft	0.26 PSU	120.00 ml/min
4/19/2021 10:58 AM	28:00	7.54 pH	19.35 °C	532.09 µS/cm	0.18 mg/L	7.61 NTU	-110.2 mV	44.30 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:02 AM	32:00	7.53 pH	19.37 °C	529.11 µS/cm	0.16 mg/L	6.47 NTU	-114.9 mV	44.45 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:06 AM	36:00	7.53 pH	19.59 °C	528.10 µS/cm	0.16 mg/L	6.40 NTU	-118.1 mV	44.53 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:10 AM	40:00	7.53 pH	19.68 °C	528.22 µS/cm	0.16 mg/L	5.94 NTU	-120.6 mV	44.60 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:14 AM	44:00	7.53 pH	19.41 °C	525.43 µS/cm	0.16 mg/L	5.55 NTU	-121.0 mV	44.66 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:18 AM	48:00	7.54 pH	18.93 °C	522.15 µS/cm	0.15 mg/L	5.38 NTU	-120.1 mV	44.74 ft	0.25 PSU	120.00 ml/min
4/19/2021 11:22 AM	52:00	7.54 pH	19.35 °C	527.28 µS/cm	0.15 mg/L	5.00 NTU	-121.7 mV	44.78 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:26 AM	56:00	7.55 pH	19.31 °C	524.45 µS/cm	0.14 mg/L	4.70 NTU	-120.7 mV	44.84 ft	0.26 PSU	120.00 ml/min

4/19/2021 11:30 AM	01:00:00	7.54 pH	19.90 °C	528.19 µS/cm	0.14 mg/L	4.31 NTU	-122.3 mV	44.89 ft	0.26 PSU	120.00 ml/min
4/19/2021 11:34 AM	01:04:00	7.54 pH	19.11 °C	521.71 µS/cm	0.13 mg/L	4.09 NTU	-117.9 mV	44.94 ft	0.25 PSU	120.00 ml/min

Samples

Sample ID:	Description:
BGWC-50D	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/30/2021 1:10:39 PM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWC-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.29 ft Total Depth: 67.29 ft Initial Depth to Water: 32.82 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 62.29 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 6 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 1:10 PM	00:00	6.87 pH	26.46 °C	3,382.9 µS/cm	5.94 mg/L	11.60 NTU	54.9 mV	32.82 ft	1.80 PSU	200.00 ml/min
3/30/2021 1:14 PM	04:00	6.66 pH	19.09 °C	3,849.2 µS/cm	0.11 mg/L	9.77 NTU	46.1 mV	32.82 ft	2.06 PSU	200.00 ml/min
3/30/2021 1:18 PM	08:00	6.65 pH	18.52 °C	3,892.6 µS/cm	0.09 mg/L	8.46 NTU	43.6 mV	32.82 ft	2.08 PSU	200.00 ml/min
3/30/2021 1:22 PM	12:00	6.65 pH	18.29 °C	3,916.5 µS/cm	0.08 mg/L	6.13 NTU	42.2 mV	32.82 ft	2.09 PSU	200.00 ml/min
3/30/2021 1:26 PM	16:00	6.65 pH	18.30 °C	3,928.0 µS/cm	0.08 mg/L	5.79 NTU	41.6 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 1:30 PM	20:00	6.65 pH	18.23 °C	3,927.5 µS/cm	0.07 mg/L	5.09 NTU	41.2 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 1:34 PM	24:00	6.65 pH	18.25 °C	3,935.7 µS/cm	0.06 mg/L	4.40 NTU	40.7 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 1:38 PM	28:00	6.65 pH	18.27 °C	3,937.6 µS/cm	0.06 mg/L	4.39 NTU	40.7 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 1:42 PM	32:00	6.65 pH	18.29 °C	3,937.9 µS/cm	0.06 mg/L	4.21 NTU	40.6 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 1:46 PM	36:00	6.65 pH	18.26 °C	3,940.2 µS/cm	0.06 mg/L	3.59 NTU	40.4 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 1:50 PM	40:00	6.65 pH	18.21 °C	3,944.5 µS/cm	0.06 mg/L	2.82 NTU	40.4 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 1:54 PM	44:00	6.65 pH	18.27 °C	3,943.6 µS/cm	0.05 mg/L	2.58 NTU	40.3 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 1:58 PM	48:00	6.65 pH	18.29 °C	3,944.2 µS/cm	0.05 mg/L	2.52 NTU	40.1 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 2:02 PM	52:00	6.65 pH	18.20 °C	3,946.4 µS/cm	0.05 mg/L	2.73 NTU	40.2 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 2:06 PM	56:00	6.64 pH	18.25 °C	3,943.4 µS/cm	0.05 mg/L	2.43 NTU	40.0 mV	32.82 ft	2.11 PSU	200.00 ml/min

3/30/2021 2:10 PM	01:00:00	6.65 pH	18.30 °C	3,939.9 µS/cm	0.05 mg/L	2.29 NTU	40.1 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 2:14 PM	01:04:00	6.65 pH	18.33 °C	3,939.5 µS/cm	0.05 mg/L	1.83 NTU	40.1 mV	32.82 ft	2.11 PSU	200.00 ml/min
3/30/2021 2:18 PM	01:08:00	6.64 pH	18.38 °C	3,935.8 µS/cm	0.05 mg/L	1.68 NTU	39.9 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 2:22 PM	01:12:00	6.64 pH	18.44 °C	3,930.3 µS/cm	0.05 mg/L	1.50 NTU	40.0 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 2:26 PM	01:16:00	6.64 pH	18.39 °C	3,936.2 µS/cm	0.05 mg/L	1.62 NTU	39.9 mV	32.82 ft	2.10 PSU	200.00 ml/min
3/30/2021 2:30 PM	01:20:00	6.64 pH	18.43 °C	3,939.1 µS/cm	0.05 mg/L	1.57 NTU	40.1 mV	32.82 ft	2.11 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWC-51	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/30/2021 10:58:46 AM

Project: Plant Bowen 2021 March AP Semiannual

Operator Name: Kevin Stephenson

Location Name: BGWC-52 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 72.18 ft Total Depth: 82.18 ft Initial Depth to Water: 32.17 ft	Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 77.18 ft Estimated Total Volume Pumped: 5600 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

Pre-purged 3 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/30/2021 10:58 AM	00:00	8.53 pH	17.49 °C	39.98 µS/cm	8.56 mg/L	13.33 NTU	235.3 mV	32.18 ft	0.02 PSU	200.00 ml/min
3/30/2021 11:02 AM	04:00	6.76 pH	17.23 °C	2,399.1 µS/cm	0.14 mg/L	8.06 NTU	12.9 mV	32.18 ft	1.25 PSU	200.00 ml/min
3/30/2021 11:06 AM	08:00	6.80 pH	17.26 °C	2,400.2 µS/cm	0.10 mg/L	6.87 NTU	6.9 mV	32.18 ft	1.25 PSU	200.00 ml/min
3/30/2021 11:10 AM	12:00	6.81 pH	17.31 °C	2,397.9 µS/cm	0.09 mg/L	5.92 NTU	4.4 mV	32.18 ft	1.25 PSU	200.00 ml/min
3/30/2021 11:14 AM	16:00	6.81 pH	17.39 °C	2,397.8 µS/cm	0.08 mg/L	5.52 NTU	6.6 mV	32.18 ft	1.25 PSU	200.00 ml/min
3/30/2021 11:18 AM	20:00	6.81 pH	17.40 °C	2,396.8 µS/cm	0.07 mg/L	4.97 NTU	7.1 mV	32.18 ft	1.24 PSU	200.00 ml/min
3/30/2021 11:22 AM	24:00	6.82 pH	17.43 °C	2,400.0 µS/cm	0.07 mg/L	4.54 NTU	7.2 mV	32.18 ft	1.25 PSU	200.00 ml/min
3/30/2021 11:26 AM	28:00	6.82 pH	17.44 °C	2,399.3 µS/cm	0.06 mg/L	4.04 NTU	8.2 mV	32.18 ft	1.25 PSU	200.00 ml/min

Samples

Sample ID:	Description:
BGWC-52	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 5/26/2021 9:06:58 AM

Project: May 2021 AP Batch Test

Operator Name: William Laaker

Location Name: BGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 79.17 ft Total Depth: 89.17 ft Initial Depth to Water: 51.26 ft	Pump Type: QED Dedicated Tubing Type: LDPE Pump Intake From TOC: 84.17 ft Estimated Total Volume Pumped: 6120 ml Flow Cell Volume: 90 ml Final Flow Rate: 170 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/26/2021 9:06 AM	00:00	7.38 pH	20.06 °C	374.63 µS/cm	3.19 mg/L	5.50 NTU	64.3 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:10 AM	04:00	7.41 pH	19.98 °C	375.45 µS/cm	2.97 mg/L	6.39 NTU	52.4 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:14 AM	08:00	7.42 pH	19.95 °C	374.38 µS/cm	2.79 mg/L	6.20 NTU	42.4 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:18 AM	12:00	7.42 pH	20.03 °C	373.42 µS/cm	2.62 mg/L	5.23 NTU	43.9 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:22 AM	16:00	7.43 pH	20.07 °C	372.85 µS/cm	2.47 mg/L	4.28 NTU	44.1 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:26 AM	20:00	7.45 pH	19.96 °C	368.64 µS/cm	2.30 mg/L	3.64 NTU	44.4 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:30 AM	24:00	7.46 pH	20.09 °C	368.52 µS/cm	2.20 mg/L	3.18 NTU	44.7 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:34 AM	28:00	7.47 pH	20.22 °C	367.58 µS/cm	2.13 mg/L	2.59 NTU	44.8 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:38 AM	32:00	7.49 pH	20.14 °C	366.32 µS/cm	2.07 mg/L	2.49 NTU	44.9 mV	51.31 ft	0.18 PSU	170.00 ml/min
5/26/2021 9:42 AM	36:00	7.49 pH	19.97 °C	367.36 µS/cm	2.08 mg/L	2.07 NTU	45.0 mV	51.31 ft	0.18 PSU	170.00 ml/min

Samples

Sample ID:	Description:
BGWA-2	Batch

Well Development Forms

Low-Flow Test Report:

Test Date / Time: 5/10/2021 2:04:10 PM

Project: Plant Bowen 2021 May AP Development

Operator Name: Kevin Stephenson

Location Name: BGWC-38D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 116.41 ft Total Depth: 126.41 ft Initial Depth to Water: 20.71 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 121.41 ft Estimated Total Volume Pumped: 32000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789317
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Test Notes:

146.25 Gallons Pre-purged

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/10/2021 2:04 PM	00:00	6.91 pH	22.57 °C	1,247.7 µS/cm	0.56 mg/L	9.91 NTU	22.5 mV	20.94 ft	0.63 PSU	2,000.0 ml/min
5/10/2021 2:08 PM	04:00	6.92 pH	22.53 °C	1,247.5 µS/cm	0.61 mg/L	9.51 NTU	13.1 mV	20.94 ft	0.63 PSU	2,000.0 ml/min
5/10/2021 2:12 PM	08:00	6.92 pH	22.48 °C	1,247.3 µS/cm	0.60 mg/L	8.12 NTU	7.5 mV	20.94 ft	0.63 PSU	2,000.0 ml/min
5/10/2021 2:16 PM	12:00	6.93 pH	22.46 °C	1,247.4 µS/cm	0.64 mg/L	8.30 NTU	3.4 mV	20.94 ft	0.63 PSU	2,000.0 ml/min
5/10/2021 2:20 PM	16:00	6.94 pH	22.44 °C	1,244.0 µS/cm	0.67 mg/L	7.11 NTU	-0.1 mV	20.94 ft	0.63 PSU	2,000.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/10/2021 2:45:04 PM

Project: Plant Bowen 2021 May AP Development

Operator Name: William Laaker

Location Name: BGWC-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 156.01 ft Total Depth: 166.01 ft Initial Depth to Water: 20.49 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 161.01 ft Estimated Total Volume Pumped: 26000 ml Flow Cell Volume: 90 ml Final Flow Rate: 1300 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 60 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/10/2021 2:45 PM	00:00	7.09 pH	25.62 °C	1,962.9 µS/cm	1.30 mg/L	13.50 NTU	7.2 mV	20.68 ft	1.01 PSU	1,300.0 ml/min
5/10/2021 2:49 PM	04:00	6.98 pH	22.92 °C	2,067.7 µS/cm	0.41 mg/L	6.87 NTU	4.7 mV	20.68 ft	1.07 PSU	1,300.0 ml/min
5/10/2021 2:53 PM	08:00	6.97 pH	22.70 °C	2,069.2 µS/cm	0.37 mg/L	3.78 NTU	6.3 mV	20.68 ft	1.07 PSU	1,300.0 ml/min
5/10/2021 2:57 PM	12:00	6.98 pH	22.62 °C	2,065.0 µS/cm	0.34 mg/L	3.11 NTU	7.2 mV	20.68 ft	1.07 PSU	1,300.0 ml/min
5/10/2021 3:01 PM	16:00	6.98 pH	22.76 °C	2,061.9 µS/cm	0.36 mg/L	2.31 NTU	7.7 mV	20.68 ft	1.07 PSU	1,300.0 ml/min
5/10/2021 3:05 PM	20:00	6.98 pH	23.06 °C	2,056.7 µS/cm	0.34 mg/L	1.79 NTU	7.9 mV	20.68 ft	1.06 PSU	1,300.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/10/2021 11:34:35 AM

Project: Plant Bowen 2021 May AP Development

Operator Name: William Laaker

Location Name: BGWC-49D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 300.68 ft Total Depth: 310.68 ft Initial Depth to Water: 7.2 ft	Pump Type: GeoTech Reclaimer Tubing Type: LDPE Pump Intake From TOC: 305.68 ft Estimated Total Volume Pumped: 19200 ml Flow Cell Volume: 90 ml Final Flow Rate: 1200 ml/min Final Draw Down: 109.75 ft	Instrument Used: Aqua TROLL 400 Serial Number: 789301
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Test Notes:

Prepurged 51 L

Turbidity below 10 NTU, completing well development.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
5/10/2021 11:34 AM	00:00	7.28 pH	22.82 °C	1,879.9 µS/cm	0.44 mg/L	11.50 NTU	-24.2 mV	96.40 ft	0.97 PSU	1,200.0 ml/min
5/10/2021 11:38 AM	04:00	7.29 pH	21.97 °C	1,906.2 µS/cm	0.39 mg/L	11.10 NTU	-35.6 mV	100.70 ft	0.98 PSU	1,200.0 ml/min
5/10/2021 11:42 AM	08:00	7.29 pH	21.92 °C	1,909.0 µS/cm	0.39 mg/L	13.70 NTU	-37.4 mV	106.70 ft	0.98 PSU	1,200.0 ml/min
5/10/2021 11:46 AM	12:00	7.29 pH	21.95 °C	1,911.7 µS/cm	0.43 mg/L	8.55 NTU	-38.4 mV	111.45 ft	0.98 PSU	1,200.0 ml/min
5/10/2021 11:50 AM	16:00	7.29 pH	22.00 °C	1,916.3 µS/cm	0.46 mg/L	8.00 NTU	-39.7 mV	116.95 ft	0.99 PSU	1,200.0 ml/min

Samples

Sample ID:	Description:
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Calibration Logs

Calibration Report

Instrument Aqua TROLL 400
Serial Number 789317
Created 1/20/2021

Sensor	RDO
Serial Number	789977
Last Calibrated	1/20/2021

Calibration Details

Slope 0.9756925
Offset 0.00 mg/L

Calibration point 100%

Concentration 11.30 mg/L
Temperature 9.90 °C
Barometric Pressure 1,002.6 mbar

Sensor	Conductivity
Serial Number	789317
Last Calibrated	1/20/2021

Calibration Details

Cell Constant 0.974
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor	Level
Serial Number	787062
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21172
Last Calibrated	1/20/2021

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 154.0 mV
Temperature 9.97 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -16.6 mV
Temperature 10.21 °C

Calibration Point 3

pH of Buffer 10.12 pH
pH mV -176.0 mV
Temperature 10.49 °C

Slope and Offset 1

Slope -55.74 mV/pH
Offset -13.2 mV

Slope and Offset 2

Slope -52.09 mV/pH
Offset -13.4 mV

ORP

ORP Solution ORP Standard
Offset -25.2 mV
Temperature 10.86 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 728541
Created 1/20/2021

Sensor RDO
Serial Number 728741
Last Calibrated 1/20/2021

Calibration Details

Slope 1.065833
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.55 mg/L
Temperature 14.08 °C
Barometric Pressure 1,002.4 mbar

Sensor Conductivity
Serial Number 728541
Last Calibrated 1/20/2021

Calibration Details

Cell Constant 1.044
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor Level
Serial Number 724053
Last Calibrated Factory Defaults

Sensor pH/ORP
Serial Number 20773
Last Calibrated 1/20/2021

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 166.3 mV
Temperature 13.41 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV 1.0 mV
Temperature 12.86 °C

Calibration Point 3

pH of Buffer 10.12 pH
pH mV -172.1 mV
Temperature 12.34 °C

Slope and Offset 1

Slope -54.03 mV/pH
Offset 4.2 mV

Slope and Offset 2

Slope -56.57 mV/pH
Offset 4.4 mV

ORP

ORP Solution ZoBell's
Offset -0.6 mV
Temperature 11.77 °C

EQUIPMENT CALIBRATION LOG

Field Technician: Vernice Fay Date: 11/28/21 Time (start): 0849 Time (finish): 0905
 AquaTroll SN: 789310 Turbidity Meter Type: LaMotte 2020 WC SN (RMN): 20862
 Project: Bowen Ap Sampling Weather Conditions: Cold & damp Entire 30s

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				101.48	
Specific Conductance (µS/cm)	08/21	6.71	4490	4489.2	
pH (4)	08/21	6.77	4	3.98	
pH (7)	08/21	7.59	7	7.04	
pH (10)	08/21	7.98	10	10.10	
ORP (mV)	08/21	7.97	228	2435	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.4	±0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU	1	1.01	±0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU	10	8.58	±0.5 NTU	<input checked="" type="checkbox"/> Yes	possible scatter on vial throwing off cal reading

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	8.26	4	4.1	±0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	7.59	7	7.1	±0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	7.59	10	10.1	±0.1 SU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Booth</u>	Date: <u>2/16/21</u>	Time (start): <u>0928</u>	Time (finish): <u>0951</u>
AquaTroll SN: <u>789810</u>	Turbidity Meter Type: <u>2020we</u>	SN: <u>9453-4417</u>	
Project: <u>Plant Bowen AP Scan</u>	Weather Conditions: <u>Cold + windy</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>100%</u>	
Specific Conductance (µS/cm)	<u>20010025 8/21</u>	<u>12.94</u>	<u>4490</u>	<u>3988</u>	
pH (4)	<u>20010025 8/21</u>	<u>12.27</u>	<u>4</u>	<u>4.00</u>	
pH (7)	<u>19340057 8/21</u>	<u>13.2</u>	<u>7</u>	<u>7.06</u>	
pH (10)	<u>19320102 8/21</u>	<u>13.17</u>	<u>10</u>	<u>10.03</u>	
ORP (mV)	<u>19460167 8/21</u>	<u>12.85</u>	<u>228</u>	<u>240</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	<u>0</u>	<u>0.01</u>	<u>±0.5 NTU</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Turbidity 1 NTU	<u>1</u>	<u>1.02</u>	<u>±0.5 NTU</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Turbidity 10 NTU	<u>10</u>	<u>10.50</u>	<u>±0.5 NTU</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	<u>12.62</u>	<u>4</u>	<u>4.04</u>	<u>±0.1 SU</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Mid-Day pH (7) check	<u>12.51</u>	<u>7</u>	<u>7.06</u>	<u>±0.1 SU</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Mid-Day pH (10) check	<u>12.68</u>	<u>10</u>	<u>10.19</u>	<u>±0.1 SU</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Kavio Stephenson Date: 2/16/20 Time (start): 07:14 Time (finish): _____

AquaTroll SN: 789317 Turbidity Meter Type: LaMotte 2020 SN: _____

Project: Rainbow RD Weather Conditions: _____

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)			100% 102.6	102.6	
Specific Conductance (µS/cm)	8/21 25010025	25°	4480	4502.9	
pH (4)	8/21 20010025	10.9°	4	4.01	
pH (7)	8/21 19340025	11.0°	7	7.10	
pH (10)	8/21 19320102	11.14°	10	10.15°	
ORP (mV)	8/21 19460167	11.13°	228	234.2	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0 *	0.03	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU	1 *	0.84	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU	10 *	10.46	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	8.05	4 *	3.93	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check	8.15	7 *	7.05	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check	8.36	10 *	10.12	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	

Resolute

Environmental & Water Resources Consulting

EQUIPMENT CALIBRATION LOG

Field Technician Joe Bault	Date 2/17/21	Time (start) 0850	Time (finish) 0915
Asset ID/ASN 789310	Turbidity Meter Type 2020 Wc	SN 9453-4417	
Project Plant Bowen AP Som	Weather Conditions cold		

Calibration Log

	Standard I or R / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air sat)				100.12	
Specific Conductance (µS/cm)	20010025 R/21	8.71	4490	4137	
pH (4)	20010025 R/21	7.73	4	4.0	
pH (7)	19340057 R/21	7.71	7	7.06	
pH (10)	19320102 R/21	8.31	10	10.12	
ORP (mV)	19460167 R/21	7.73	228	259	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.02	±0.5 NTU	<input checked="" type="radio"/> No	
Turbidity 1 NTU	1	1.04	±0.5 NTU	<input checked="" type="radio"/> No	
Turbidity 10 NTU	10	10.31	±0.5 NTU	<input checked="" type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid Day pH (4) check	9.73	4	4.06	±0.1 NU	<input checked="" type="radio"/> No	
Mid Day pH (7) check	7.91	7	7.08	±0.1 NU	<input checked="" type="radio"/> No	
Mid Day pH (10) check	10.61	10	10.12	±0.1 NU	<input checked="" type="radio"/> Yes	

EQUIPMENT CALIBRATION LOG

Field Technician <i>Kevin Stephenson</i>	Date <i>2/17/21</i>	Time (start) <i>1136</i>	Time (finish)
AquaTroll SN <i>789317</i>	Turbidity Meter Type <i>Lamotte 2020</i>	SN <i>9429-4417</i>	
Project <i>Bowen AP Scan</i>	Weather Conditions <i>50°/37°/100%</i>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)			5.89	101.58	
Specific Conductance (µS/cm)	<i>8/21</i> <i>20010025</i>	<i>5.58</i>	<i>4490</i> <i>5295</i>	<i>1457.2</i>	
pH (4)	<i>8/21</i> <i>20010025</i>	<i>5.46</i>	<i>4</i>	<i>4.00</i>	
pH (7)	<i>8/21</i> <i>19340057</i>	<i>5.29</i>	<i>7</i>	<i>7.07</i>	
pH (10)	<i>8/21</i> <i>19320102</i>	<i>5.29</i>	<i>10</i>	<i>10.17</i>	
ORP (mV)	<i>8/21</i> <i>19460167</i>	<i>5.15</i>	<i>228</i>	<i>237.7</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<i>0</i>	<i>-0.01</i>	<i>+/- 0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	<i>1</i>	<i>0.83</i>	<i>+/- 0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	<i>10</i>	<i>10.20</i>	<i>+/- 0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<i>12.22</i>	<i>4</i>	<i>4.12</i>	<i>+/- 0.1 SU</i>	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Mid-Day pH (7) check	<i>12.77</i>	<i>7</i>	<i>7.10</i>	<i>+/- 0.1 SU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<i>15.11</i>	<i>10</i>	<i>10.25</i>	<i>+/- 0.1 SU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

Field Technician: <u>Uwe Bode</u>	Date: <u>2/19/21</u>	Time (start): <u>0900</u>	Time (finish): <u>0921</u>
AquaTroll SN: <u>785310</u>	Turbidity Meter Type: <u>2000uc</u>	SN: <u>9453-4417</u>	
Project: <u>Plant Bover AP Scan</u>	Weather Conditions: <u>cold & rainy</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)	[REDACTED]			97.47	
Specific Conductance (µS/cm)	20010025 8/21	12.54	4490	4593.8	
pH (4)	20010025 8/21	12.78	4	4.02	
pH (7)	19340057 8/21	12.57	7	7.08	
pH (10)	19320102 8/21	12.20	10	10.17	
ORP (mV)	19460167 8/21	11.96	228	242.1	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.02	±0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU	1	1.03	±0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU	10	10.45	±0.5 NTU	<input checked="" type="checkbox"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	12.97	4	4.02	±0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	12.93	7	7.06	±0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	12.46	10	10.16	±0.1 SU	Yes <input checked="" type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Field Technician <u>Kevin Stephenson</u>	Date <u>2/18/21</u>	Time (start) <u>0922</u>	Time (finish)
AquaTroll SN	Turbidity Meter Type <u>LaMotte 2020</u>	SN <u>9429-4417</u>	
Project	Weather Conditions		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)			100	98.78	
Specific Conductance (µS/cm)	<u>8/21</u> <u>20010025</u>	<u>8.17</u>	<u>4480</u>	<u>4367.8</u>	
pH (4)	<u>8/21</u> <u>20010025</u>	<u>7.61</u>	<u>4</u>	<u>4.03</u>	
pH (7)	<u>8/21</u> <u>19340057</u>	<u>7.95</u>	<u>7</u>	<u>7.06</u>	
pH (10)	<u>8/21</u> <u>19320102</u>	<u>8.39</u>	<u>10</u>	<u>10.16</u>	
ORP (mV)	<u>8/21</u> <u>19460057</u>	<u>9.24</u>	<u>228</u>	<u>218.0</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	<u>0.01</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	<u>0.95</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	<u>9.84</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>11.67</u>	<u>4</u>	<u>4.12</u> 4.028	<u>±0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>11.08</u>	<u>7</u>	<u>7.15</u>	<u>±0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<u>10.31</u>	<u>10</u>	<u>10.28</u>	<u>±0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Booth</u>	Date: <u>2/19/21</u>	Time (start): <u>9:00</u>	Time (finish): <u>08:51</u>
AquaTroll SN: <u>789310</u>	Turbidity Meter Type: <u>20206</u>	SN: <u>2068-0320</u>	
Project: <u>Plant Bowen AP Sen</u>	Weather Conditions: <u>overcast & cold</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)					
Specific Conductance (µS/cm)	20010025 8/21	4.77	4490	4778	
pH (4)	20010025 8/21	4.47	4	4.00	
pH (7)	19340057 8/21	4.46	7	7.05	
pH (10)	19320102 8/21	4.69	10	10.12	
ORP (mV)	19460167 8/21	5.10	228	215.5	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.01	+/- 0.5 NTU	<input checked="" type="radio"/> No	
Turbidity 1 NTU	1	1.02	+/- 0.5 NTU	<input checked="" type="radio"/> No	
Turbidity 10 NTU	10	12.05	+/- 0.5 NTU	<input checked="" type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	4.61	4	4.09	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	10.41	7	7.12	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	10.53	10	10.08	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician <i>Kevin Staples</i>	Date <i>2/11/21</i>	Time (start) <i>09:00</i>	Time (finish)
AquaTroll SN <i>789317</i>	Turbidity Meter Type <i>LaMotte</i>	SN <i>9429-4417</i>	
Project <i>Rowan AP Scan</i>	Weather Conditions		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)			100	102.6	
Specific Conductance (µS/cm)	<i>8/21 20010025</i>	<i>7.93</i>	<i>4490</i>	<i>4680.6</i>	
pH (4)	<i>8/21 20010025</i>	<i>7.60</i>	<i>4</i>	<i>3.99</i>	
pH (7)	<i>8/21 19340057</i>	<i>6.43</i>	<i>7</i>	<i>7.08</i>	
pH (10)	<i>8/21 19320002</i>	<i>6.96</i>	<i>10</i>	<i>10.12</i>	
ORP (mV)	<i>8/21 19460167</i>	<i>8.19</i>	<i>228</i>	<i>230.3</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<i>0</i>	<i>0.00</i>	<i>±0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	<i>1</i>	<i>0.74</i>	<i>±0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	<i>10</i>	<i>10.11</i>	<i>±0.5 NTU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<i>6.90</i>	<i>4</i>	<i>4.09</i>	<i>±0.1 SU</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<i>7.31</i>	<i>7</i>	<i>7.22</i>	<i>±0.1 SU</i>	Yes <input checked="" type="radio"/> No	
Mid-Day pH (10) check	<i>8.46</i>	<i>10</i>	<i>10.28</i>	<i>±0.1 SU</i>	Yes <input checked="" type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Booth</u>	Date: <u>2/22/21</u>	Time (start): <u>0845</u>	Time (finish): <u>2902</u>
AquaTroll SN: <u>789310</u>	Turbidity Meter Type: <u>2020E</u>	SN: <u>2048-0320</u>	
Project: <u>Ben Ar Son</u>	Weather Conditions: <u>rain + cold</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>100.01</u>	
Specific Conductance (µS/cm)	<u>20010025 8/21</u>	<u>10.53</u>	<u>4490</u>	<u>4385.2</u>	
pH (4)	<u>20010025 8/21</u>	<u>10.57</u>	<u>4</u>	<u>4.03</u>	
pH (7)	<u>19340057 8/21</u>	<u>10.58</u>	<u>7</u>	<u>7.13</u>	
pH (10)	<u>19320102 8/21</u>	<u>10.62</u>	<u>10</u>	<u>10.10</u>	
ORP (mV)	<u>19460167 8/21</u>	<u>10.62</u>	<u>228</u>	<u>2420</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<u>0</u>	<u>0.01</u>	<u>±0.5 NTU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Turbidity 1 NTU	<u>1</u>	<u>1.04</u>	<u>±0.5 NTU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Turbidity 10 NTU	<u>10</u>	<u>10.13</u>	<u>±0.5 NTU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>10.84</u>	<u>4</u>	<u>4.03</u>	<u>±0.1 SU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Mid-Day pH (7) check	<u>11.12</u>	<u>7</u>	<u>7.09</u>	<u>±0.1 SU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Mid-Day pH (10) check	<u>11.14</u>	<u>10</u>	<u>10.15</u>	<u>±0.1 SU</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

EQUIPMENT CALIBRATION LOG

Field Technician <u>Kevin Stephenson</u>	Date <u>2/22/21</u>	Time (start) <u>1050</u>	Time (finish)
AquaTroll SN <u>789317</u>	Turbidity Meter Type <u>LaMotte 2020</u>	SN <u>9429-4417</u>	
Project <u>AP S...</u>	Weather Conditions <u>55% cloud, 25%...</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)			100	98.07	
Specific Conductance (µS/cm)	<u>8/21</u> <u>20010025</u>	<u>12.61</u>	<u>4400</u>	<u>4479.2</u>	
pH (4)	<u>8/21</u> <u>20010025</u>	<u>12.78</u>	<u>4</u>	<u>4.02</u>	
pH (7)	<u>8/21</u> <u>19340057</u>	<u>12.84</u>	<u>7</u>	<u>7.04</u>	
pH (10)	<u>8/21</u> <u>19320102</u>	<u>12.84</u>	<u>10</u>	<u>10.10</u>	
ORP (mV)	<u>8/21</u> <u>19460107</u>	<u>12.86</u>	<u>228</u>	<u>220.7</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<u>0</u>	<u>-0.03</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	<u>1</u>	<u>0.88</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	<u>10</u>	<u>9.93</u>	<u>±0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>15.77</u>	<u>4</u>	<u>4.09</u>	<u>±0.1 SU</u>	<input type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>16.70</u>	<u>7</u>	<u>7.13</u>	<u>±0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<u>19.47</u>	<u>10</u>	<u>10.17</u>	<u>±0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician <u>Kevin Stephenson</u>	Date <u>2/25/21</u>	Time (start) <u>0934</u>	Time (finish)
AquaTroll SN <u>789317</u>	Turbidity Meter Type <u>Lamotte 2020</u> SN <u>9429-4417</u>		
Project <u>AP Scan</u>	Weather Conditions <u>66°/37° 00%</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air sat)			100	101.45	
Specific Conductance (µS/cm)	<u>8121</u> <u>20010025</u>	<u>11.68</u>	4490	4536.4	
pH (4)	<u>8121</u> <u>20010025</u>	<u>11.92</u>	4	4.00	
pH (7)	<u>8121</u> <u>19340059</u>	<u>11.92</u>	7	7.06	
pH (10)	<u>8121</u> <u>1930102</u>	<u>11.82</u>	10	10.11	
ORP (mV)	<u>8121</u> <u>19460167</u>	<u>11.75</u>	228	229.3	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	-0.01	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	1.16	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	10.03	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>14.84</u>	4	4.09	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>14.50</u>	7	7.06	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<u>14.79</u>	10	10.03	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	



EQUIPMENT CALIBRATION LOG

Field Technician: William Laaker	Date: 3/8/21	Time (start): 8:36	Time (finish): 8:51
AquaTroll SN: 789301	Turbidity Meter Type: LaMotte 2020t	SN: 2068-0320	
Project: Feb 2021 AP Scan	Weather Conditions: 68°/32° sunny		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				102.09	
Specific Conductance (µS/cm)	20010025 8/21	1.71	4490	4842.7	
pH (4)	20010025 8/21	1.90	4	4.00	
pH (7)	19340057 8/21	2.89	7	7.14	
pH (10)	19320102 8/21	3.39	10	10.23	
ORP (mV)	19460167 8/21	3.55	228	237.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.01	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	0.96	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.20	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	20.88	4	4.15	±0.1 SU	Yes	No	
Mid-Day pH (7) check	18.57	7	7.15	±0.1 SU	Yes	No	
Mid-Day pH (10) check	19.10	10	10.08	±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician <i>Kurt D. Stachurski</i>	Date <i>3/9/21</i>	Time (start) <i>1004</i>	Time (finish)
AguaTron SN <i>789317</i>	Turbidity Meter Type <i>LAM 2020</i>	SN <i>7042-3810</i>	
Project <i>AP Sump</i>	Weather Conditions <i>72°/37° 0%</i>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<i>104.98</i>	
Specific Conductance (µS/cm)	20010025 8/21	<i>8.31</i>	4490	<i>4279.0</i>	
pH (4)	20010025 8/21	<i>8.09</i>	4	<i>3.98</i>	
pH (7)	19340057 8/21	<i>7.70</i>	7	<i>7.02</i>	
pH (10)	19320102 8/21	<i>8.05</i>	10	<i>10.13</i>	
ORP (mV)	19460167 8/21	<i>8.90</i>	228	<i>244.2</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	<i>0.00</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	<i>1.10</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	<i>9.64</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<i>26.91</i>	4	<i>4.05</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<i>22.93</i>	7	<i>7.04</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check		10	<i>10.07</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Booth</u>	Date: <u>3/23/21</u>	Time (start): <u>0827</u>	Time (finish):
AquaTroll SN: <u>789310</u>	Turbidity Meter Type: <u>2020we</u>	SN: <u>9453-4417</u>	
Project: <u>Bowen March 2021 AP Detection</u>	Weather Conditions:		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>98.42</u>	
Specific Conductance (µS/cm)	<u>20010025 8/21</u>	<u>13.84</u>	<u>4490</u>	<u>2905.2</u>	
pH (4)	<u>20010025 8/21</u>	<u>13.84</u>	<u>4</u>	<u>4.02</u>	
pH (7)	<u>19340057 8/21</u>	<u>13.75</u>	<u>7</u>	<u>7.00</u>	
pH (10)	<u>19320102 8/21</u>	<u>13.71</u>	<u>10</u>	<u>10.40</u>	
ORP (mV)	<u>19460167 8/21</u>	<u>14.08</u>	<u>228</u>	<u>240.9</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<u>0</u>	<u>0.01</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	<u>1</u>	<u>1.16</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	<u>10</u>	<u>10.31</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>15.21</u>	<u>4</u>	<u>4.03</u>	<u>+/- 0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>15.63</u>	<u>7</u>	<u>7.16</u>	<u>+/- 0.1 SU</u>	Yes <input checked="" type="radio"/> No	
Mid-Day pH (10) check	<u>15.68</u>	<u>10</u>	<u>10.08</u>	<u>+/- 0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Joe Booth Date: 3/24/21 Time (start): 0831 Time (finish):
 AquaTroll SN: 789310 Turbidity Meter Type: 2020wc SN: 9453-4417
 Project: Bowen March 2021 AP Detection Weather Conditions:

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				99.68	
Specific Conductance (µS/cm)	20010025 8/21	15.34	4490	7559.2	
pH (4)	20010025 8/21	15.34	4	4.02	
pH (7)	19340057 8/21	15.38	7	7.12	
pH (10)	19320102 8/21	15.47	10	9.99	
ORP (mV)	19460167 8/21	15.57	228	239.6	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU	1	1.06	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU	10	10.13	+/- 0.5 NTU	Yes No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	17.52	4	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	17.74	7	7.02	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	17.83	10	10.19	+/- 0.1 SU	Yes No	

Field Technician: William Laaker	Date: 3/24/21	Time (start): 8:31	Time (finish): 8:41
AquaTroll SN: 789301	Turbidity Meter Type: LaMotte 2020t	SN: 2068-0326	
Project: LF Sampling / AP Semiannual	Weather Conditions: 77°/60° cloudy		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				100.10	
Specific Conductance (µS/cm)	20010025 8/21	15.44	4490	4440.01	
pH (4)	20010025 8/21	15.47	4	4.01	
pH (7)	19340057 8/21	15.53	7	7.01	
pH (10)	19320102 8/21	15.66	10	10.05	
ORP (mV)	19460167 8/21	15.66	228	226.5	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.20	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	1.11	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.20	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	25.05	4	4.10	±0.1 SU	Yes	No	
Mid-Day pH (7) check	22.40	7	7.11	±0.1 SU	Yes	No	
Mid-Day pH (10) check	22.49	10	10.06	±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician <u>Kevin Stephenson</u>	Date <u>3/25/21</u>	Time (start) <u>1042</u>	Time (finish)
AquaTroll SN <u>789317</u>	Turbidity Meter Type <u>LaMotte 2020</u>	SN <u>7042-3818</u>	
Project <u>AP Sammamish</u>	Weather Conditions <u>77°/55°, 80%</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>99.33</u>	
Specific Conductance (µS/cm)	<u>20010025-2122</u> <u>20010025-2121</u> <u>20010025-2121</u>	<u>19.76</u>	4490	<u>4513.1</u>	
pH (4)	<u>20010025-2121</u> <u>20010025-2121</u>	<u>19.73</u>	4	<u>4.01</u>	
pH (7)	19340057 8/21	<u>19.40</u>	7	<u>7.01</u>	
pH (10)	19320102 8/21	<u>19.57</u>	10	<u>10.05</u>	
ORP (mV)	19460167 8/21	<u>20.61</u>	228	<u>231.8</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	<u>-0.06</u>	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	<u>0.95</u>	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	<u>10.00</u>	±0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check		4	<u>4.05</u> <u>4.13</u>	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check		7	<u>7.08</u>	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check		10	<u>10.13</u>	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: William Laaker	Date: 3/25/21	Time (start): 8:38	Time (finish): 8:48
Apnea Troll SN: 789301	Turbidity Meter Type: LaMotte 2020z		SN: 2068-0320
Project: March 2021 AP Semi	Weather Conditions: 77°/60° 80' storms		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt. 100% water saturated air cal)				101.99	
Specific Conductance (µS/cm)	20010025 8/21	16.93	4490	4369.6	
pH (4)	20010025 8/21	17.00	4	4.02	
pH (7)	19340057 8/21	17.41	7	7.06	
pH (10)	19320102 8/21	17.63	10	10.10	
ORP (mV)	19460167 8/21	17.63	228	224.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.08	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	0.98	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.11	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	18.52	4	4.07	±0.1 SU	Yes	No	
Mid-Day pH (7) check	18.79	7	7.099	±0.1 SU	Yes	No	
Mid-Day pH (10) check	18.92	10	10.08	±0.1 SU	Yes	No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Joe Booth Date: 3/26/21 Time (start): 0838 Time (finish): 0849
 AquaTroll SN: 789310 Turbidity Meter Type: 2020 µc IM: 9453-4417
 Project: Bowen March 2021 AP Detection

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt. 100% water saturated air cal)				100.47	
Specific Conductance (µS/cm)	20010025 8/21	17.73	4490	4519.6	
pH (4)	20010025 8/21	17.74	4	4.00	
pH (7)	19340057 8/21	17.72	7	7.00	
pH (10)	19320102 8/21	17.76	10	10.02	
ORP (mV)	19460167 8/21	17.71	228	227.0	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	-0.03	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Turbidity 1 NTU	1	1.22	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Turbidity 10 NTU	10	10.42	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	12.17	4	4.01	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Mid-Day pH (7) check	16.23	7	7.03	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Mid-Day pH (10) check	15.24	10	10.10	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <i>Kevin Stokerson</i>	Date: <i>3/29/21</i>	Time (start): <i>1058</i>	Time (finish):
Account #: <i>789317</i>	Turbidity Meter Type: <i>LaMotte 2020</i>		SV: <i>7042-3818</i>
Project: <i>AP Sampling</i>	Weather Conditions: <i>67°/45.00%</i>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<i>99.99%</i>	
Specific Conductance (µS/cm)	20010025 ^{<i>8/27</i>} 8/21 <i>20440203</i>	<i>14.71</i>	4490	<i>4463.7</i>	
pH (4)	20010025 ^{<i>8/27</i>} 8/21 <i>20440203</i>	<i>14.63</i>	4	<i>3.92</i>	
pH (7)	<i>19340057</i> 8/21	<i>14.30</i>	7	<i>7.03</i>	
pH (10)	<i>19320102</i> 8/21	<i>14.28</i>	10	<i>10.11</i>	
ORP (mV)	<i>19460167</i> 8/21	<i>14.52</i>	228	<i>238.4</i>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	<i>0.00</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	<i>0.95</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	<i>10.27</i>	± 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<i>19.27</i>	4	<i>4.20</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<i>19.59</i>	7	<i>7.19</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<i>20.05</i>	10	<i>10.21</i>	± 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: William Laaker	Date: 3/26/21	Time (start): 8:52	Time (finish): 9:07
AquaTroll SN: 789301	Turbidity Meter Type: LaMotte 2020t		SN: 2068-0320
Project: March 2021 AP Semi	Weather Conditions: 75°/58° cloudy 30% rain		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				97.62	
Specific Conductance (µS/cm)	20010025 8/21 20440203 2/22	19.81	4490	4455.7	
pH (4)	20010025 8/21 20440203 2/22	19.70	4	4.06	
pH (7)	19340057 8/21	19.32	7	7.04	
pH (10)	19320102 8/21	19.11	10	10.01	
ORP (mV)	19460167 8/21	19.00	228	225.6	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.08	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	0.95	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.10	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	27.75	4	4.05	±0.1 SU	Yes	No	
Mid-Day pH (7) check	27.92	7	7.13	±0.1 SU	Yes	No	
Mid-Day pH (10) check	29.26	10	10.11	±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Beath</u>	Date: <u>3/29/21</u>	Time (start): <u>0832</u>	Time (finish):
AquaTroll SN: <u>789310</u>	Turbidity Meter Type: <u>2020wc</u>	SN: <u>9453-4417</u>	
Project: <u>Bacon March 2021 AP Protection</u>			

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>98.92</u>	
Specific Conductance (µS/cm)	<u>20010025</u> 8/21	<u>9.68</u>	4490	<u>4424.7</u>	
pH (4)	<u>20010025</u> 8/21	<u>9.73</u>	4	<u>4.01</u>	
pH (7)	<u>19340057</u> 8/21	<u>10.01</u>	7	<u>7.00</u>	
pH (10)	<u>19320102</u> 8/21	<u>10.70</u>	10	<u>10.94</u>	
ORP (mV)	<u>19460167</u> 8/21	<u>10.72</u>	228	<u>227.9</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	<u>-0.02</u>	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Turbidity 1 NTU	1	<u>1.12</u>	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Turbidity 10 NTU	10	<u>9.76</u>	±0.5 NTU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	<u>14.32</u>	4	<u>4.01</u>	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Mid-Day pH (7) check	<u>14.66</u>	7	<u>7.06</u>	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Mid-Day pH (10) check	<u>14.78</u>	10	<u>10.10</u>	±0.1 SU	<input checked="" type="radio"/> Yes	<input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Laker</u>	Date: <u>3/29/21</u>	Time (start): <u>8:29</u>	Time (finish):
AquaTroll SN: <u>789301</u>	Turbidity Meter Type: <u>LaMotte 2020t</u>	SN: <u>2068-0320</u>	
Project: <u>March 2021 AP Semi</u>	Weather Conditions: <u>67°/38° sunny</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air sat)				100.25	
Specific Conductance (µS/cm)	20010025 8/21 20440703 2/21	8.94	4490	4637.9	
pH (4)	20010025 8/21	8.95	4	3.94	
pH (7)	19340057 8/21	9.51	7	7.04	
pH (10)	19320102 8/21	9.84	10	10.14	
ORP (mV)	19460167 8/21	9.94	228	241.1	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.13	+/-0.5 NTU	Yes	No	
Turbidity 1 NTU	1	1.06	+/- 0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.28	+/- 0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	17.87	4	4.10	+/- 0.1 SU	Yes	No	
Mid-Day pH (7) check	18.29	7	7.17	+/- 0.1 SU	Yes	No	
Mid-Day pH (10) check	19.86	10	10.17	+/- 0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Kevin Stephenson</u>	Date: <u>3/30/21</u>	Time (Calibration): <u>1025</u>	Time (Mid-day Check):
AquaTron SN: <u>789317</u>	Turbidity Meter Type: <u>LAQUA-2020</u>	SN: <u>7042-5618</u>	
Project: <u>AP Sewermain</u>	Weather Conditions: <u>73°/61° 50%RH</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>103.56</u>	
Specific Conductance (µS/cm)	20440203 8/22	<u>17.20</u>	4490	<u>4471.2</u>	
pH (4)	20440203 8/22	<u>16.63</u>	4	<u>4.07</u>	
pH (7)	19340057 8/21	<u>16.09</u>	7	<u>7.06</u>	
pH (10)	19320102 8/21	<u>15.91</u>	10	<u>10.07</u>	
ORP (mV)	19460167 8/21	<u>16.33</u>	228	<u>224.6</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	<u>0.00</u>	±0.05 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	1	<u>0.94</u>	±0.05 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	10	<u>10.27</u>	±0.05 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>19.04</u>	4	<u>4.12</u>	±0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>19.27</u>	7	<u>7.08</u>	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<u>19.94</u>	10	<u>10.12</u>	±0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Laaker</u>	Date: <u>3/30/21</u>	Time (start): <u>8:21</u>	Time (finish): <u>8:36</u>
AquaTroll SN: <u>789301</u>	Turbidity Meter Type: <u>LaMotte 2020t</u>		SN: <u>2068-0320</u>
Project: <u>March 2021 AP Semi</u>	Weather Conditions: <u>74°/47° sunny</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				105.51	
Specific Conductance (µS/cm)	20010025 8/21	10.39	4490	4391.4	
pH (4)	20010025 8/21 20440203 2/22	10.50	4	4.26	
pH (7)	19340057 8/21	11.20	7	7.22	
pH (10)	19320102 8/21	11.52	10	10.22	
ORP (mV)	19460167 8/21	11.65	228	240.2	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.14	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	1.06	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.33	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	20.91	4	4.08	±0.1 SU	Yes	No	
Mid-Day pH (7) check	19.81	7	7.08	±0.1 SU	Yes	No	
Mid-Day pH (10) check	19.50	10	10.06	±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: Joc Booth Date: 3/31/21 Time (Calibration): 0817 Time (Mid-day Check): 1312
 AquaTroll SN: 789310 Turbidity Meter Type: 2020wC SN: 9453-4417
 Project: Bowen March 2021 AP Detection Weather Conditions:

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				98.32	
Specific Conductance (µS/cm)	20440203 8/22	18.88	4490	4532.2	
pH (4)	20440203 8/22	18.97	4	4.03	
pH (7)	19340057 8/21	18.93	7	7.04	
pH (10)	19320102 8/21	18.99	10	10.00	
ORP (mV)	19460167 8/21	19.26	228	214.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	0	0.03	+/-0.5 NTU	Yes No	
Turbidity 1 NTU	1	1.16	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU	10	10.34	+/- 0.5 NTU	Yes No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	20.15	4	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	20.17	7	7.04	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	20.19	10	10.12	+/- 0.1 SU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: William Laaker	Date: 3/31/21	Time (Calibration): 8:28	Time (Mid-day Check): 14:53
AquaTroll SN: 789301	Turbidity Meter Type: LaMotte 2020t	SN: 2068-0320	
Project: March 2021 AP Semi	Weather Conditions: 70°/39° 70% rain		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				96.86	
Specific Conductance (µS/cm)	20440203 8/22	18.52	4490	4547.8	
pH (4)	20440203 8/22	18.55	4	4.01	
pH (7)	19340057 8/21	18.70	7	7.07	
pH (10)	19320102 8/21	18.83	10	10.02	
ORP (mV)	19460167 8/21	18.88	228	216.9	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.07	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	0.93	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.18	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	18.58	4	4.08	±0.1 SU	Yes	No	
Mid-Day pH (7) check	18.79	7	7.04	±0.1 SU	Yes	No	
Mid-Day pH (10) check	18.88	10	10.10	±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>Joe Booth</u>	Date: <u>4/1/21</u>	Time (Calibration): <u>08:31</u>	Time (Mid-day Check): <u>12:48</u>
AquaTroll SN: <u>789310</u>	Turbidity Meter Type: <u>2020 W/C</u>	SN: <u>9453-4A7</u>	
Project: <u>Bowen March 2021 AP Detection</u>	Weather Conditions:		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				<u>101.21</u>	
Specific Conductance (µS/cm)	<u>20440203 8/22</u>	<u>5.83</u>	<u>4490</u>	<u>4550.6</u>	
pH (4)	<u>20440203 8/22</u>	<u>5.83</u>	<u>4</u>	<u>3.98</u>	
pH (7)	<u>19340057 8/21</u>	<u>6.08</u>	<u>7</u>	<u>6.97</u>	
pH (10)	<u>19320102 8/21</u>	<u>6.52</u>	<u>10</u>	<u>10.07</u>	
ORP (mV)	<u>19460167 8/21</u>	<u>4.69</u>	<u>228</u>	<u>269.8</u>	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU	<u>0</u>	<u>0.01</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU	<u>1</u>	<u>1.16</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU	<u>10</u>	<u>10.30</u>	<u>+/- 0.5 NTU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	<u>10.13</u>	<u>4</u>	<u>4.10</u>	<u>+/- 0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<u>10.63</u>	<u>7</u>	<u>7.01</u>	<u>+/- 0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<u>10.71</u>	<u>10</u>	<u>10.09</u>	<u>+/- 0.1 SU</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: William Ladker	Date: 4/11/21	Time (Calibration): 8:26	Time (Mid-day Check):
AquaTroll SN: 789301	Turbidity Meter Type: LaMotte 2020t	SN: 2068-0320	
Project: March 2021 AP Semi	Weather Conditions: 52°/32° sunny, windy		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				102.43	
Specific Conductance (µS/cm)	20440203 8/22	6.78	4490	4506.1	
pH (4)	20440203 8/22	6.88	4	4.00	
pH (7)	19340057 8/21	7.61	7	7.04	
pH (10)	19320102 8/21	7.62	10	10.25	
ORP (mV)	19460167 8/21	8.12 8.09	228	243.89	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.00	±0.5 NTU	Yes	No	
Turbidity 1 NTU	1	1.03	±0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.23	±0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check		4		±0.1 SU	Yes	No	
Mid-Day pH (7) check		7		±0.1 SU	Yes	No	
Mid-Day pH (10) check		10		±0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Laaker</u>	Date: <u>4/19/21</u>	Time (Calibration): <u>8:54</u>	Time (Mid-day Check): <u>17:08</u>
AquaTroll SN: <u>789301</u>	Turbidity Meter Type: <u>LaMotte 2020 we</u>	SN: <u>4429-4417</u>	
Project: <u>March 2021 AP Semi</u>	Weather Conditions: <u>71°/45° sunny</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				99.35	
Specific Conductance (µS/cm)	20440203 8/22	13.36	4490	4378.1	
pH (4)	20440203 8/22	13.47	4	3.99	
pH (7)	19340057 8/21	13.90	7	7.02	
pH (10)	19320102 8/21	14.22	10	10.06	
ORP (mV)	19460167 8/21	14.14	228	225.4	

	Value of Standard	Instrument Reading	Acceptable Range	Pass?		Comments
Turbidity 0 NTU	0	0.02	+/- 0.5 NTU	Yes	No	
Turbidity 1 NTU	1	0.91	+/- 0.5 NTU	Yes	No	
Turbidity 10 NTU	10	10.09	+/- 0.5 NTU	Yes	No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?		Comments
Mid-Day pH (4) check	24.69	4	4.39	+/- 0.1 SU	Yes	No	
Mid-Day pH (7) check	24.92	7	7.39	+/- 0.1 SU	Yes	No	
Mid-Day pH (10) check	25.74	10	10.15	+/- 0.1 SU	Yes	No	

EQUIPMENT CALIBRATION LOG

Field Technician: <u>William Laaker</u>	Date: <u>5/26/21</u>	Time (Calibration): <u>8:08</u>	Time (Mid-day Check): <u>12:45</u>
AquaTroll SN: <u>789301</u>	Turbidity Meter Type: <u>LaMotte 2020 w/c</u>	SN: <u>2068-0320</u>	
Project: <u>May 2021 Resample</u>	Weather Conditions: <u>89°/67° sunny</u>		

Calibration Log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Instrument Reading at Calibration	Comments
DO (%) (1pt, 100% water saturated air cal)				98.49	
Specific Conductance (µS/cm)	20440203 8/22	22.16	4490	4646.2	
pH (4)	20440203 8/22	22.20	4	4.10	
pH (7)	19340057 8/21	22.58	7	7.12	
pH (10)	19320102 8/21	22.80	10	10.07	
ORP (mV)	19460167 8/21	22.78	228	222.8	

		Value of Standard	Instrument Reading	Acceptable Range	Pass?	Comments
Turbidity 0 NTU		0	0.00	±0.5 NTU	Yes No	
Turbidity 1 NTU		1	1.01	±0.5 NTU	Yes No	
Turbidity 10 NTU		10	9.57	±0.5 NTU	Yes No	

	Temp of Standard (°C)	Value of Standard	Post Calibration Reading	Acceptable Range	Pass?	Comments
Mid-Day pH (4) check	31.23	4	4.02	±0.1 SU	Yes No	
Mid-Day pH (7) check	30.85	7	7.09	±0.1 SU	Yes No	
Mid-Day pH (10) check	30.81	10	10.08	±0.1 SU	Yes No	

APPENDIX D

Semiannual Remedy Selection and Design Progress Report



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**SEMIANNUAL REMEDY SELECTION AND
DESIGN PROGRESS REPORT
PLANT BOWEN ASH POND 1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581C

August 2021

SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

GEORGIA POWER COMPANY - PLANT BOWEN

ASH POND 1 (AP-1)

This *Semiannual Remedy Selection and Design Progress Report, Georgia Power Company - Plant Bowen, Ash Pond 1 (AP-1)*, has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule, specifically 40 Code of Federal (CFR) 257.97(a) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a). This report describes the progress made during the first semiannual period of 2021 in selecting and designing a remedy previously documented in the *Assessment of Corrective Measures Report – Plant Bowen Ash Pond 1 (AP-1)*.

Report Prepared by:



Whitney B. Law, P.E.
Georgia Professional Engineer No. 036641

August 31, 2021
Date

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Figure 4	Iso-Concentration Map, Molybdenum – March 2021

LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP	ash pond
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
Co	cobalt
CSM	conceptual site model
GA EPD	Georgia Environmental Protection Division
Geosyntec	Geosyntec Consultants, Inc.
Georgia Power	Georgia Power Company
GWPS	Groundwater Protection Standard
MNA	monitored natural attenuation
Mo	molybdenum
NOI	Notice of intent
PRB	permeable reactive barriers
SSI	statistically significant increase
SSL	statistically significant level
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

1.1 Purpose

This *Semiannual Remedy Selection and Design Progress Report* (the semiannual progress report) was prepared for Georgia Power Company (Georgia Power) Plant Bowen Ash Pond 1 (AP-1 or Site) in accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically 40 CFR 257.97(a), and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a). This semiannual progress report describes the progress made since the issuance of the prior semiannual progress report in selecting and designing a remedy. Potentially applicable groundwater corrective measures were previously described in the *Assessment of Corrective Measures Report – Plant Bowen Ash Pond 1 (AP-1)* (Geosyntec, 2019a) (ACM Report).

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97(b) and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97 and Rule 391-3-4-.10(6)(a), semiannual progress reports have been regularly submitted to document the efforts of evaluating and progressing towards selecting a groundwater corrective measure (Geosyntec, 2019b, 2020a, 2020b).

1.2 Site Background and Overview of AP-1 Pond Closure

Plant Bowen is a four-unit, coal-fired, electric-generating facility that commenced operations in the 1970s. The plant is located nine miles southwest of Cartersville in Bartow County, Georgia. The plant is bordered by the Etowah River to the north and east, and sparsely populated, forested, rural, and industrial land on the south and west (**Figure 1**).

AP-1 at the Site occupies an area of approximately 254 acres. In preparation for AP-1 closure, the plant completed the conversion to dry ash handling in early 2019 and AP-1 no longer receives ash. Georgia Power submitted to GA EPD a notice of intent (NOI) stating that waste stream flows are no longer directed to AP-1, effective December 31,

2020. Georgia Power will close AP-1 by excavation and consolidation of CCR material into an approximately 144-acre lined, multi-cell storage facility situated within the current footprint of AP-1. Closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure approach reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach have been summarized in the Amended Written Closure Plan and published in 2018 to Georgia Power's CCR compliance website.

1.3 Regulatory Program Status and Nature and Extent

CCR compliance groundwater monitoring-related activities have been performed for AP-1 since June 2016 pursuant to the CCR Rule. Georgia Power initiated an assessment monitoring program in January 2018 after identifying statistically significant increases (SSIs) of Appendix III parameters in groundwater. Statistical analyses of the Appendix IV assessment monitoring groundwater data collected in 2018 identified statistically significant levels (SSLs) of molybdenum (Mo) and cobalt (Co) at concentrations exceeding the state or federal groundwater protection standards (GWPS). Pursuant to § 257.96, Georgia Power initiated an ACM for AP-1 in January 2019 (Geosyntec, 2019c). The ACM Report was submitted to GA EPD in June 2019 and posted to the CCR compliance website in July 2019.

Since the ACM was initiated, 16 delineation monitoring wells and 5 piezometers have been installed to horizontally and vertically delineate Co and Mo SSLs in groundwater and characterize the groundwater flow upgradient and downgradient of AP-1, respectively. The locations of the monitoring wells and piezometers are shown on **Figure 2**; **Table 1** provides well construction details. Supporting details and documents have been previously submitted with the ACM Report or separate well installation reports.

Statistical analysis of the March 2021 semiannual assessment monitoring groundwater data identified the following bulleted list of SSLs of Appendix IV constituents at concentrations exceeding the noted state or federal GWPS. Details are provided in the *2021 Semiannual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021d).

AP-1 (Federal CCR Rule):

- Arsenic (As): BGWC-34D
- Co: BGWC-22

- Mo: BGWC-38D

AP-1 (GA EPD CCR Rule):

- As: BGWC-34D
- Co: BGWC-22;
- Mo: BGWC-22, BGWC-38D, and BGWC 43D

The arsenic SSL in BGWC-34D is addressed with an Alternate Source Demonstration (ASD) submitted with the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021b). The arsenic ASD was approved by GA EPD on August 18, 2021. Based on the groundwater data reported in the *2021 Semiannual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021d), the SSLs of Co and Mo are horizontally and vertically delineated to below the state and federal GWPS at AP-1. The groundwater data from compliance and horizontal delineation monitoring wells sampled during the March 2021 semiannual assessment monitoring event were used to generate the Co and Mo iso-concentration maps presented on **Figures 3** and **4**.

Pursuant to § 257.96, groundwater in the vicinity of AP-1 continues to be monitored during the ACM phase in accordance with the established assessment monitoring program.

1.4 Corrective Measures Evaluated

As discussed in the ACM Report, the following corrective measures are potentially feasible for use at AP-1. A comparative screening of the corrective measures is provided in **Table 2**.

1. Geochemical Manipulation (In-Situ Injection)
2. Hydraulic Containment (Pump and Treat)
3. Monitored Natural Attenuation (MNA)
4. Permeable Reactive Barrier (PRB)
5. Phytoremediation
6. Subsurface Vertical Barrier Walls

However, the geochemical manipulation, PRB, and vertical barrier wall corrective measures have since been removed from consideration based on data evaluations presented in the August 2020 semiannual progress report (Geosyntec, 2020).

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report to support the groundwater remedy selection process and address potential changes in site conditions (e.g., successful reduction of constituent concentrations or changing trends) as appropriate during assessment monitoring and ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account.

Characterization activities to evaluate attenuation mechanisms at the Site include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA of inorganic constituents (USEPA, 1999, 2007, and 2015). The 1999 MNA guidance originally introduced the “tiered approach” with three tiers of site-specific information, or lines of evidence, to evaluate the appropriate use of MNA at certain sites (USEPA, 1999). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (USEPA, 2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 and 2007 MNA guidance.

- Phase I: Demonstration that the groundwater plume is *not expanding*.
- Phase II: Determination that the *mechanism and rate* of the attenuation process are sufficient.
- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia Power will address Phase IV, as appropriate, during the development of the future corrective action monitoring plan, after the final remedy selection report.

The data collection approach and the data interpretation presented within this semiannual progress report are informed by this phased MNA guidance. It is noted, however, that

the characterization data collected under this approach are also used to refine the conceptual site model (CSM) and evaluate other retained potential corrective measures.

1.5 Risk Evaluation

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk evaluation of groundwater data reported between June 2016 and March 2020 to evaluate As, Co, and Mo SSLs in groundwater at AP-1. The evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based upon this evaluation, concentrations of As, Co, and Mo detected in groundwater at AP-1 between June 2016 and March 2020 are not expected to pose a risk to human health or the environment (Geosyntec, 2021c). Data collected since June 2020 are consistent with data used in the risk evaluation; therefore, the conclusions provided in the *Risk Evaluation Report* are supported by current conditions.

2.0 SUMMARY OF WORK COMPLETED

On May 26, 2021, Geosyntec collected groundwater from background well BGWA-2 for use in batch sorption and desorption studies that are currently being conducted at SiREM laboratories located in Guelph, Ontario (SiREM). The aquifer solids for these batch studies were previously collected and reported in the August 2020 semiannual progress report (Geosyntec, 2020). The testing methodology and the results of these studies will be summarized during the next reporting period.

3.0 UPDATED CONCEPTUAL SITE MODEL

AP-1 will be closed by excavation and consolidation of CCR material into an approximately 144-acre lined, multi-cell storage facility situated within the current footprint of AP-1, thereby providing a source control measure that reduces potential for migration of CCR-related constituents to groundwater. The following bullets summarize the current understanding of the CSM within the context of selecting an appropriate groundwater corrective measure for AP-1.

- Recent statistical analyses and iso-concentration maps show that Mo and Co SSLs are horizontally and vertically delineated onsite to below the state and federal GWPS.
- An ASD for the As SSL at well BGWC-34D has been prepared that indicates that the As concentrations above the GWPS detected within this well are not due to a release from AP-1, but are likely due to As levels found within the rock matrix analyzed at this location (Geosyntec, 2021b). The arsenic ASD was approved by GA EPD on August 18, 2021.
- Groundwater conditions and/or statistical results continue to change, leading to the reduction of groundwater concentrations to below applicable state GWPS in select compliance monitoring and delineation wells. Ongoing routine assessment monitoring events will demonstrate whether closure activities, which will soon commence at AP-1, will affect groundwater quality at the Site.

4.0 UPDATED EVALUATION OF CORRECTIVE MEASURES

As discussed during the August 2020 progress report (Geosyntec, 2020), three of the six potential corrective measures were previously eliminated for further evaluation to treat the site-specific constituents in groundwater. These included geochemical manipulations/injections, a permeable reactive barrier (PRB), and a vertical barrier wall. The other three potential corrective measures were retained for further evaluation. Data collected during the past six months reported in the current progress report have not resulted in the elimination of additional corrective measures. Therefore, the following three potential corrective measures, which have been described in further detail in the August 2020 progress report, will be retained for further evaluation:

- Hydraulic Containment:
 - Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater downgradient of the permitted unit. This approach is not considered for implementation in the immediate vicinity of AP-1 due to geotechnical considerations in the context of the site-specific geology. However, it could be used along Euharlee Creek should the closure construction activities require such a groundwater treatment configuration as an interim measure and/or contingency approach.

- Monitored Natural Attenuation:
 - MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction (redox) reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Current groundwater data as well as the characterization of aquifer solids presented in the previous progress report suggest that the aquifer matrix has substantial attenuation capacity for the various constituents of interest at the Site. Therefore, MNA remains a viable corrective measure, especially coupled with the closure of AP-1 through excavation and consolidation into a lined, multi-cell storage facility situated within the current footprint of AP-1. MNA may either be a stand-alone corrective measure or be part of a combination of corrective measures to address groundwater impacts.

- Phytoremediation:
 - Phytoremediation uses trees and/or other plants to uptake or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. The use of an engineered (proprietary) TreeWell[®] phytoremediation system remains a viable corrective measure at certain locations of the Site. This potential corrective measure may be feasible through targeted placement of TreeWell[®] units downgradient of AP-1. It is recognized that phytoremediation of groundwater in deeper zones around well BGWC-43D (>150 ft below ground surface) is not feasible, but similar to the hydraulic containment approach outlined above, it could be used along Euharlee Creek should the closure construction activities require such a groundwater treatment/containment configuration.

Continued groundwater monitoring and statistical analyses will further refine the CSM and allow for the continued evaluation of an appropriate groundwater corrective measure at the Site.

5.0 PLANNED ACTIVITIES & ANTICIPATED SCHEDULE

The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. During the pond closure by excavation and consolidation of CCR, temporary changes in site conditions may occur that must be considered as part of remedy selection. Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Geosyntec, 2019a) to support the remedial strategy and address potential changes in site conditions as appropriate. The adaptive site management approach may be adjusted over the Site's life cycle as new site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to further evaluate the feasibility of the corrective measures retained for further evaluation. Once sufficient data are available to select one or more specific corrective measures, necessary steps will be taken to design and implement a remedy for AP-1 in accordance with § 257.98.

Supplementary data collection and evaluation activities proposed to be completed during the next semiannual reporting period are presented in **Table 3**.

- *Complete sorption and desorption studies using unconsolidated aquifer solids and site-specific groundwater to further evaluate the attenuation capacity of constituents of interest and attenuation rates in support of evaluating MNA consistent with USEPA's four-phased approach.*
- *Evaluate conceptual layouts of phytoremediation and hydraulic containment corrective measures to evaluate hydraulic capture zones under anticipated closure conditions.*

Georgia Power will continue to prepare semiannual progress reports to document AP-1 groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include future semiannual progress reports in routine groundwater monitoring and corrective action reports. Record keeping, notifications, and publicly accessible internet site requirements for the semiannual progress reports will be provided in accordance with § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

6.0 REFERENCES

- Geosyntec Consultants, 2019a. *Assessment of Corrective Measures Report – Plant Bowen Ash Pond 1 (AP-1)*. June 2019.
- Geosyntec Consultants, 2019b. *Semi-Annual Remedy Selection and Design Progress Report – Plant Bowen Ash Pond 1 (AP-1)*. December 2019.
- Geosyntec Consultants. 2019c. *2018 Annual Groundwater Monitoring and Corrective Action Report - Plant Bowen Ash Pond 1 (AP-1)*. January 2019.
- Geosyntec Consultants, 2020a. *Supplemental Semi-Annual Remedy Selection and Design Progress Report – Plant Bowen Ash Pond 1 (AP-1)*. January 2020.
- Geosyntec Consultants, 2020b. *Semiannual Remedy Selection and Design Progress Report – Plant Bowen Ash Pond 1 (AP-1)*. August 2020.
- Geosyntec Consultants. 2021a. *Risk Evaluation Report – Plant Bowen Ash Pond 1, Cartersville, Bartow County, Georgia*. January 2021.
- Geosyntec Consultants. 2021b. *2020 Annual Groundwater Monitoring and Corrective Action Report - Plant Hammond Ash Pond 1 (AP-1)*. January 2021.
- Geosyntec Consultants, 2021c. *Semiannual Remedy Selection and Design Progress Report – Plant Bowen Ash Pond 1 (AP-1)*. January 2021.
- Geosyntec Consultants. 2021d. *2021 Semiannual Groundwater Monitoring and Corrective Action Report - Plant Hammond Ash Pond 1 (AP-1)*. August 2021.
- USEPA (1999). *Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites*. Office of Solid Waste and Emergency Response; Directive 9200.4-17P. April 1999.
- USEPA (2007). *Monitored Natural Attenuation of Inorganic Contaminants in Ground Water. Volume 1 – Technical Basis for Assessment*. National Risk Management Laboratory. EPA/600/R-07/139. October 2007.
- USEPA (2015). *Use of Monitored Natural Attenuation for Inorganic Contaminants in Groundwater at Superfund Sites*, Office of Solid Waste and Emergency Response Directive 9283.1-36, August 2015.

TABLES

Table 1
Monitoring Well Network Summary
Plant Bowen AP-1, Bartow County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length
<i>Compliance Monitoring Well</i>										
BGWA-2	Upgradient	10/29/2015	1499374.18	2068599.59	727.00	729.69	650.49	640.49	89.40	10
BGWA-29	Upgradient	8/7/2016	1498283.04	2066362.32	718.84	721.38	632.88	622.88	98.80	10
BGWA-33	Upgradient	7/10/2018	1497972.13	2064876.80	740.50	743.25	661.18	651.18	81.74	10
BGWA-47D	Upgradient	5/13/2020	1499377.79	2068612.48	726.93	729.61	585.90	575.90	154.04	10
BGWA-48D	Upgradient	5/16/2020	1499380.09	2068623.31	726.64	729.38	544.97	534.97	194.74	10
BGWC-7	Downgradient	10/1/2015	1504711.59	2066801.40	702.49	705.38	625.18	615.18	90.50	10
BGWC-8	Downgradient	11/18/2015	1504671.82	2066929.46	703.71	706.43	636.83	628.83	79.90	10
BGWC-9	Downgradient	11/13/2015	1504909.12	2066143.27	689.18	691.93	638.33	628.33	63.90	10
BGWC-10	Downgradient	10/7/2015	1505033.22	2066081.09	683.39	686.06	633.66	623.66	62.70	10
BGWC-12	Downgradient	10/21/2015	1505279.88	2065908.56	691.71	694.41	626.01	616.01	78.70	10
BGWC-14A	Downgradient	5/4/2020	1505398.54	2065015.98	715.57	718.33	629.57	619.57	98.76	10
BGWC-16	Downgradient	11/12/2015	1504656.42	2064247.67	671.65	674.31	635.31	625.31	49.30	10
BGWC-17	Downgradient	11/17/2015	1504432.00	2064259.38	671.25	673.65	615.35	605.35	68.60	10
BGWC-18	Downgradient	10/13/2015	1504118.73	2064257.00	670.32	672.88	645.08	635.08	38.10	10
BGWC-19	Downgradient	10/12/2015	1503742.25	2064244.66	671.04	673.61	628.91	618.91	55.00	10
BGWC-20	Downgradient	10/9/2015	1503367.73	2064259.55	672.29	675.14	635.14	625.14	50.30	10
BGWC-21	Downgradient	3/2/2016	1501627.51	2064348.09	688.53	691.33	648.83	638.63	53.10	10
BGWC-22	Downgradient	10/8/2015	1501323.76	2064358.05	692.64	695.50	662.60	652.60	43.20	10
BGWC-23	Downgradient	10/15/2015	1501000.57	2064350.17	693.16	695.50	654.30	644.30	51.50	10
BGWC-24	Downgradient	10/27/2015	1500621.22	2065032.84	699.46	702.27	646.27	636.27	66.30	10
BGWC-25	Downgradient	3/3/2016	1502292.73	2064244.10	677.60	680.47	632.87	622.87	57.90	10
BGWC-30	Downgradient	1/4/2017	1499815.93	2066395.86	698.39	701.06	651.58	641.58	59.78	10
BGWC-51	Downgradient	1/22/2021	1500270.09	2065455.80	708.99	711.49	654.57	644.57	67.25	10
BGWC-52	Downgradient	1/21/2021	1500156.97	2065764.13	707.77	710.75	638.88	628.88	82.20	10
<i>Piezometer</i>										
BGWA-1	Downgradient	11/17/2015	1499101.23	2067205.48	718.33	720.90	672.00	662.00	59.20	10
BGWA-3	Downgradient	11/5/2015	1499420.87	2065185.74	721.80	724.28	645.08	635.08	89.50	10
BGWA-4	Downgradient	3/4/2016	1499485.38	2064697.89	726.05	728.67	660.37	650.37	78.60	10
BGWA-5	Downgradient	11/3/2015	1499434.58	2065421.43	718.53	720.92	661.52	651.52	69.70	10
BGWC-11	Downgradient	10/16/2015	1504998.94	2066093.83	683.91	686.50	619.20	609.20	77.60	10
BGWC-13	Downgradient	10/21/2015	1505435.29	2065251.21	714.77	717.43	653.83	643.83	73.90	10
BGWC-15	Downgradient	10/20/2015	1505278.19	2064732.18	715.39	717.92	654.52	644.52	73.70	10
BGWA-26	Downgradient	8/5/2016	1498697.63	2064189.94	726.09	728.65	663.55	653.55	75.40	10
BGWA-27	Downgradient	8/6/2016	1498719.14	2064387.54	732.50	735.25	652.05	642.05	93.50	10
BGWA-28	Downgradient	8/7/2016	1498749.21	2064577.55	734.88	737.45	661.35	651.35	86.40	10
PZ-1	Downgradient	6/23/2016	1505600.54	2066844.10	675.35	677.87	630.65	620.65	57.52	10
PZ-2	Downgradient	6/24/2016	1503856.86	2062938.81	665.92	668.25	649.22	639.22	30.20	10
PZ-3	Downgradient	6/22/2016	1505723.97	2066071.08	705.34	707.97	658.64	648.64	59.60	10
PZ-4	Downgradient	6/23/2016	1505788.58	2064316.61	715.96	718.74	669.26	659.26	59.78	10
PZ-5	Downgradient	12/4/2019	1499885.63	2063961.22	697.23	700.12	640.56	630.56	59.89	10
PZ-6	Downgradient	12/8/2019	1500379.48	2063242.81	675.50	678.32	640.83	630.83	37.82	10

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Monitoring Well Network Summary
Plant Bowen AP-1, Bartow County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length
<i>Delineation Monitoring Well</i>										
BGWA-6	Downgradient	11/6/2015	1499262.01	2065797.30	714.49	716.93	663.93	653.93	63.30	10
BGWC-31	Downgradient	7/17/2018	1503497.94	2064022.71	668.12	670.54	629.45	619.45	51.42	10
BGWC-32	Downgradient	7/18/2018	1501252.25	2064184.30	696.36	699.36	658.49	648.49	51.19	10
BGWC-34D	Downgradient	7/13/2018	1503356.51	2064257.95	672.25	675.17	606.07	596.07	79.43	10
BGWC-35D	Downgradient	7/12/2018	1501312.20	2064358.63	693.13	695.73	625.47	615.47	80.59	10
BGWC-36D	Downgradient	7/2/2018	1499807.51	2066415.10	698.07	701.01	614.89	604.89	96.45	10
BGWC-37D	Downgradient	4/25/2019	1501293.16	2064362.70	693.50	696.05	595.83	585.83	110.55	10
BGWC-38D	Downgradient	4/18/2019	1499802.36	2066430.17	697.52	700.34	584.86	574.86	125.81	10
BGWC-39	Downgradient	12/6/2019	1501241.94	2064095.41	676.58	679.12	661.91	651.91	27.54	10
BGWC-40	Downgradient	12/3/2019	1500589.93	2064317.38	687.12	689.59	637.45	627.45	62.47	10
BGWC-41D	Downgradient	4/27/2020	1501255.96	2064096.23	676.43	679.12	631.76	621.76	57.69	10
BGWC-42D	Downgradient	5/3/2020	1501280.52	2064365.25	693.98	696.90	553.31	543.31	153.92	10
BGWC-43D	Downgradient	4/24/2020	1499796.86	2066444.37	697.29	700.10	544.62	534.62	165.81	10
BGWC-44D	Downgradient	4/22/2020	1499265.15	2065811.06	714.65	717.30	584.99	574.99	142.64	10
BGWC-49D	Downgradient	2/23/2021	1499790.13	2066461.96	696.95	699.75	398.95	388.95	311.13	10
BGWC-50D	Downgradient	3/19/2021	1499269.15	2065781.87	714.68	717.43	544.68	534.68	183.09	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey completed by GEL Solutions obtained June 10, 2020. Survey for wells BGWC-51 and BGWC-52 was obtained January 28, 2021. Survey for wells BGWC-49D and BGWC-50D was obtained March 25, 2021.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions obtained June 10, 2020. Survey for wells BGWC-51 and BGWC-52 was obtained January 28, 2021. Survey for wells BGWC-49D and BGWC-50D was obtained March 25, 2021.

(3) Total well depth accounts for sump if data provided on well construction logs.

Table 2
 Evaluation of Remedial Technologies
 Plant Bowen AP-1, Bartow County, Georgia

Corrective Measure	Regulatory Citation for Criteria:		40 CFR 257.96(C)(1)	
	Description	Performance	Reliability	Ease of Implementation
Geochemical Approaches (In-Situ Injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to provide suitable reagents for either anaerobic or aerobic attenuation of Co and Mo. Under anaerobic conditions, Co would be attenuated within sparingly soluble sulfide minerals; this approach might also increase the attenuation of Mo. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of Co (and potentially, Mo) onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including Co. However, the main attenuation mechanism for Co and Mo is sorption, which is more dependent on pH than redox.	The effective immobilization of Co has been shown under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options. It is currently not well understood whether molybdenum can be efficiently attenuated using in-situ redox manipulations due to slow reaction kinetics. Mo attenuation under both aerobic and anaerobic conditions needs to be further evaluated but is expected to occur. Mo is more strongly sorbed to aluminum oxides than other metal oxides, and it is generally less sorptive and more mobile compared to Co.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of Co and Mo in groundwater.	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. Potential for clogging of aquifer matrix and/or injection well infrastructure. Chemical distribution during injections could be challenging or ineffective due to the highly anisotropic aquifer conditions and the resulting uncertainty that injection reagents would be distributed within the required treatment zones. A fairly wide range of hydraulic conductivities encountered at the site depending on the degree of weathering, fractures and secondary dissolution of these units. Impractical to conduct injections at the required depths to treat the aquifer zone in the vicinity of BGWC-43D (>150 ft below ground surface)
Hydraulic Containment ("Pump and Treat")	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved Co and Mo.	Hydraulic containment is effective, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At AP-1, implementation of the corrective measure is contingent on completing additional assessment activities (i.e. high-resolution site characterization, additional pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific zones for pumping for improved mass recovery efficiency/effectiveness and to further evaluate the potential remedy performance.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.	Moderate. Proven approach, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system. A variety of sorption and precipitation approaches exist for ex-situ treatment of Co and Mo. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including cobalt (Co) and molybdenum (Mo) at AP-1, are either physical (e.g. dilution, dispersion, flushing, and related processes) or chemical (e.g., sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, oxidation-reduction (redox) reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Co and Mo, the main attenuation processes include sorption to iron and manganese oxides (Co and Mo), aluminum oxides (Mo), and formation of sparingly soluble sulfide minerals (Co).	Physical and chemical MNA mechanisms for Co and Mo, including dilution, dispersion, sorption, and oxidation reduction reactions can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. Attenuation processes for Co and Mo are already occurring at the site as evidenced by data from the delineation wells. Source control will improve the mass balance such that the buffer capacity of the aquifer is unlikely to be exhausted, and the attenuation processes already at work for Co and Mo at AP-1 will further enhance ongoing MNA.	Reliable as long as the aquifer conditions that result in Co and Mo attenuation remain favorable and/or are being enhanced and sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved Co and/or Mo, or in combination with a second technology.	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to complete the evaluation with respect to USEPA's 4-tiered approach to confirm the viability of MNA as an applied corrective measure. A monitoring well network already exists to implement future groundwater monitoring efforts.
Permeable Reactive Barrier	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. Either ZVI-Carbon matrix or solid carbon (bio-barrier) are currently proposed for the concurrent removal of Co and Mo. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is determined by site-specific characterization. PRB walls are typically keyed into the bedrock. While the shallow groundwater in the residuum and fractured bedrock is connected to the groundwater in more competent bedrock, the higher permeability/conductivity of the PRB is not expected to impede groundwater flow. PRBs can also be constructed as "funnel and gate" systems, where a barrier wall directs groundwater to a smaller "treatment gate" filled with reactive media.	PRBs have been shown to effectively address Co and Mo in groundwater if the right mix of reactive materials (e.g., ZVI and carbon) is selected for concurrent removal/immobilization of these constituents. The approach is expected to achieve GWPS for both constituents as impacted groundwater passes through the reactive barrier. Molybdenum redox kinetics may be slow and hence a thicker wall might be needed relative to solely treating for Co. Furthermore, additional testing is required to select the appropriate sorptive media mix, especially related to Mo.	Reliable groundwater corrective measure, but loss of reactivity over time may require re-installation depending on the duration of the remedy. Additional data collection, including conducting a bench and/or pilot study, is needed to better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.	Difficult to infeasible. Trenching would be required to install a mix of reactive materials in the subsurface. Continuous trenching may be the most feasible construction method. Site-specific geology (i.e., partially weathered bedrock layer) poses a possible constructability challenge when attempting to key PRB material into competent bedrock. Installation methods and materials are readily available. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary. Technically infeasible to construct a PRB at the required depths to address the aquifer zone in the vicinity of BGWC-43D (>150 ft below ground surface).
Phytoremediation / Tree Wells	Phytoremediation uses trees and other plants to uptake or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-1, this corrective measure would likely use an engineered (proprietary) TreeWell® phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of Co and Mo within the root zone as well as incidental uptake of dissolved Co and Mo with groundwater is expected to occur concurrent with hydraulic control.	Once established (typically at the end of the third growing season), a TreeWell system is effective for providing hydraulic containment of groundwater, and potential reduction of Co and Mo concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. Given the site-specific hydrogeology and reported Co and Mo groundwater concentrations surrounding AP-1, the approach is currently considered to be applicable in this setting. However, additional aquifer testing and/or groundwater flow modeling may be needed to confirm suitability for the area downgradient of AP-1.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, and groundwater flow modeling to evaluate the required number and placement of TreeWell® units.	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed as "tree wells" in a large diameter boring to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above- and below-ground structures (i.e., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. Barrier walls can also be used in downgradient applications; to limit discharge to a surface water feature or to reduce aquifer recharge from an adjacent surface water feature when groundwater extraction wells are placed near one. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier is required to avoid groundwater mounding behind the barrier.	Barrier walls are a proven technology for seepage control and/or groundwater cutoff at impoundments. Slurry walls are limited by the depth of installation; sheet piling and trenching are typically limited to depths of approximately 50 feet belowground surface (ft bgs); specialty drilling/installation techniques can achieve depths greater up to approximately 90 ft bgs. However, site-specific geologic and technology-specific considerations may limit this depth to shallower installations. Within the context of AP-1, a barrier wall might be used in conjunction with a "funnel and gate" system for a PRB rather than a stand-alone technology. As such, groundwater with Co and Mo above GWPS could either be directed to "treatment gates" for passive treatment (in a PRB) or migration of impacted groundwater could be minimized via barrier wall installation. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is incidental and not the primary objective.	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation, which similar to PRBs, should be keyed into a low permeability layer such as a thick clay layer or bedrock. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater will be required. O&M requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals. Technically infeasible to construct a barrier at the required depths to address the aquifer zone in the vicinity of BGWC-43D (>150 ft below ground surface).

Table 2
Evaluation of Remedial Technologies
Plant Bowen AP-1, Bartow County, Georgia

Corrective Measure	40 CFR 257.96(C)(1)	40 CFR 257.96(C)(2)	40 CFR 257.96(C)(3)
	Potential Impacts	Time Requirement to Begin/Complete	Institutional Requirements
Geochemical Approaches (In-Situ Injection)	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly studied and implemented.	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling, and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new UIC permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.
Hydraulic Containment ("Pump and Treat")	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure. Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for Co and Mo.	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen. In addition, deed restrictions may be required as long as groundwater conditions are above regulatory standards for unrestricted use.
Monitored Natural Attenuation (MNA)	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.	The infrastructure to initiate MNA is already in place. Demonstrating attenuation mechanisms and capacity can be time-consuming and can take up to 24 months. Under current conditions, MNA appears to already be sufficiently operational to attenuate site-specific constituents, and MNA is expected to continue to be successful following pond closure. Engineering measures will be implemented during closure of AP-1 to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time. A contingency plan will be developed to address potential impacts during and after pond closure should MNA not be successful as a stand-alone corrective measure.	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.
Permeable Reactive Barrier	Minimal impacts are expected following the construction of the remedy. However, ZVI has the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally-occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, bench- and/or pilot-testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). No other institutional requirements are expected at this time.
Phytoremediation / TreeWells	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.	The design phase will require some groundwater modeling for optimal placement of the TreeWell units, which may take up to 6 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.	Deed restrictions may be necessary for groundwater areas upgradient of the TreeWell system. No other institutional requirements are expected at this time.
Subsurface Vertical Barrier Walls	Minimal impacts are expected following the construction of the remedy. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone that may result in the mobilization of other constituents that may require treatment.	Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, some design phase and additional aquifer and compatibility testing will be required, which may take up to 24 months. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration from a source area, it will likely have to be maintained long-term and coupled with other approaches.	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.

Table 2
Evaluation of Remedial Technologies
Plant Bowen AP-1, Bartow County, Georgia

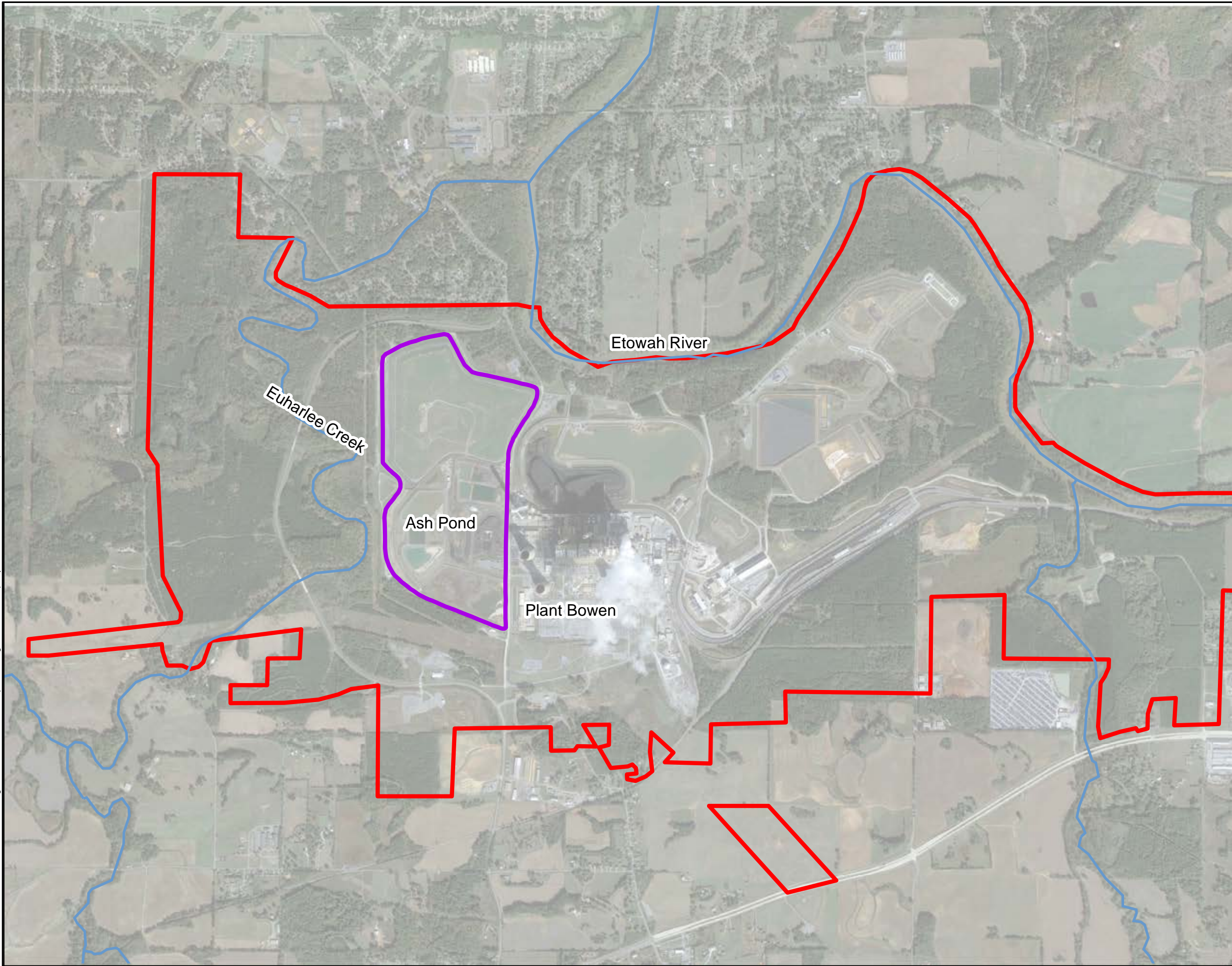
Corrective Measure	40 CFR 257.96(C)(3)		Evaluation of Retainage
	Other Env or Public Health Requirements	Relative Costs	
Geochemical Approaches (In-Situ Injection)	Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary. Potential mobilization of redox-sensitive constituents exists during implementation of an anaerobic attenuation approach. Following installation, the remedy is passive.	Medium (depending on expanse of injection network required and injectate volume required per derived design parameters)	Not retained for further analysis; impractical to conduct injections at the required depths (>150ft below ground surface); injections in the site geologic formations can be ineffective due to the highly anisotropic aquifer conditions and the resulting uncertainty that injection reagents would be distributed within the required treatment zones; Mo is the primary constituent of concern (Co naturally attenuating in vicinity of BGWC-22), yet immobilization of Mo with in-situ injections is less established and may prove less effective than other viable options.
Hydraulic Containment ("Pump and Treat")	Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary. Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed)	Retained for further analysis; the installation of extraction wells is not being considered in the immediate vicinity of AP-1 due to geotechnical considerations in the context of the site-specific geology; may need to be used in conjunction with other potential groundwater corrective measures; could be considered an effective measure to maintain hydraulic control along Euharlee Creek as an interim groundwater treatment measure, if warranted.
Monitored Natural Attenuation (MNA)	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community. Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary.	Low to medium	Retained for further analysis; may be used as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures.
Permeable Reactive Barrier	None expected at this point. Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary. Following installation, the remedy is passive. However, certain treatment media (such as ZVI) have the potential to mobilize naturally-occurring constituents downgradient of the PRB.	Medium to high (for installation) - minimal O&M requirements if replacement is not necessary	Not retained for further analysis; impractical to construct a wall at the required depths (>150ft below ground surface); does not address downgradient groundwater when installed along the compliance boundary; potential for increased maintenance due to potential biofouling and mineral precipitation.
Phytoremediation / TreeWells	None expected at this point. Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary. Innovative and green technology may be positively received by various stakeholders. Following installation, the remedy is passive and does not require external energy.	Medium (for installation) - minimal O&M requirements	Retained for further analysis; feasible through targeted placement of TreeWell units downgradient of AP-1; likely needs to be used in conjunction with other potential groundwater corrective measures; could be considered an effective measure to maintain hydraulic control along Euharlee Creek as an interim groundwater treatment measure, if warranted.
Subsurface Vertical Barrier Walls	Based on the results of the Risk Evaluation Report (Geosyntec, 2021a), SSL-related constituents (As, Co, Mo) evaluated from AP-1 are not expected to pose a risk to human health or the environment; therefore, no further risk evaluation for groundwater is warranted based on the current data set. Georgia Power will proactively evaluate the data and update this evaluation, if necessary. Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on length and depth of wall, remedy duration and complexity of above-ground treatment system)	Not retained for further analysis; impractical to construct at the required depths (>150ft below ground surface); does not address downgradient groundwater when installed along the compliance boundary.

Table 3
Proposed ACM Supplementary Data Analyses and Collection Tasks for Second Semiannual Period 2021
Plant Bowen AP-1, Bartow County, Georgia

Data Collection Event	Applicable CMs ⁽¹⁾	Applicability/Rationale	Field Component	Parameters of Interest (POI)	Analytical Lab Performing Analysis
Complete batch sorption and desorption studies using unconsolidated aquifer matrix samples and site-specific groundwater	2	Evaluation of the sorption capacity of key constituents of interest and results for attenuation mechanism and rates in support of evaluating MNA with respect to USEPA's four-tier approach	Field collection of materials (i.e., aquifer solids and groundwater) already completed during current reporting period.	Site-specific constituents (i.e., Co, Mo) as well as pH and oxidation/reduction (redox) potential.	SiREM and subcontracted labs
Perform a conceptual-level feasibility study of applied corrective measures	1, 3	Evaluate potential hydraulic capture zones using either phytoremediation or mechanical groundwater extraction systems (extraction well gallery); determine conceptual layouts to achieve hydraulic capture in target areas.	Not Applicable (Desktop Study)	Conceptually determine layouts for phytoremediation or extraction well gallery to provide effective hydraulic containment while minimizing additional infrastructure or land requirements.	No lab data required; Geosyntec desktop analyses

Note:
(1) Corrective Measure (CM) Codes:
1 - Hydraulic Containment
2 - Monitored Natural Attenuation (MNA)
3 - Phytoremediation (TreeWells®)

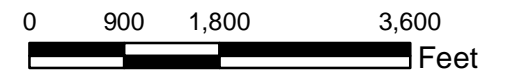
FIGURES



LEGEND

- Approximate Site Boundary
- Approximate AP-1 Boundary
- River or Stream

Notes:
 1. Aerial photograph source: Google Earth Pro, November 2019.



SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT BOWEN AP-1
 BARTOW COUNTY, GEORGIA

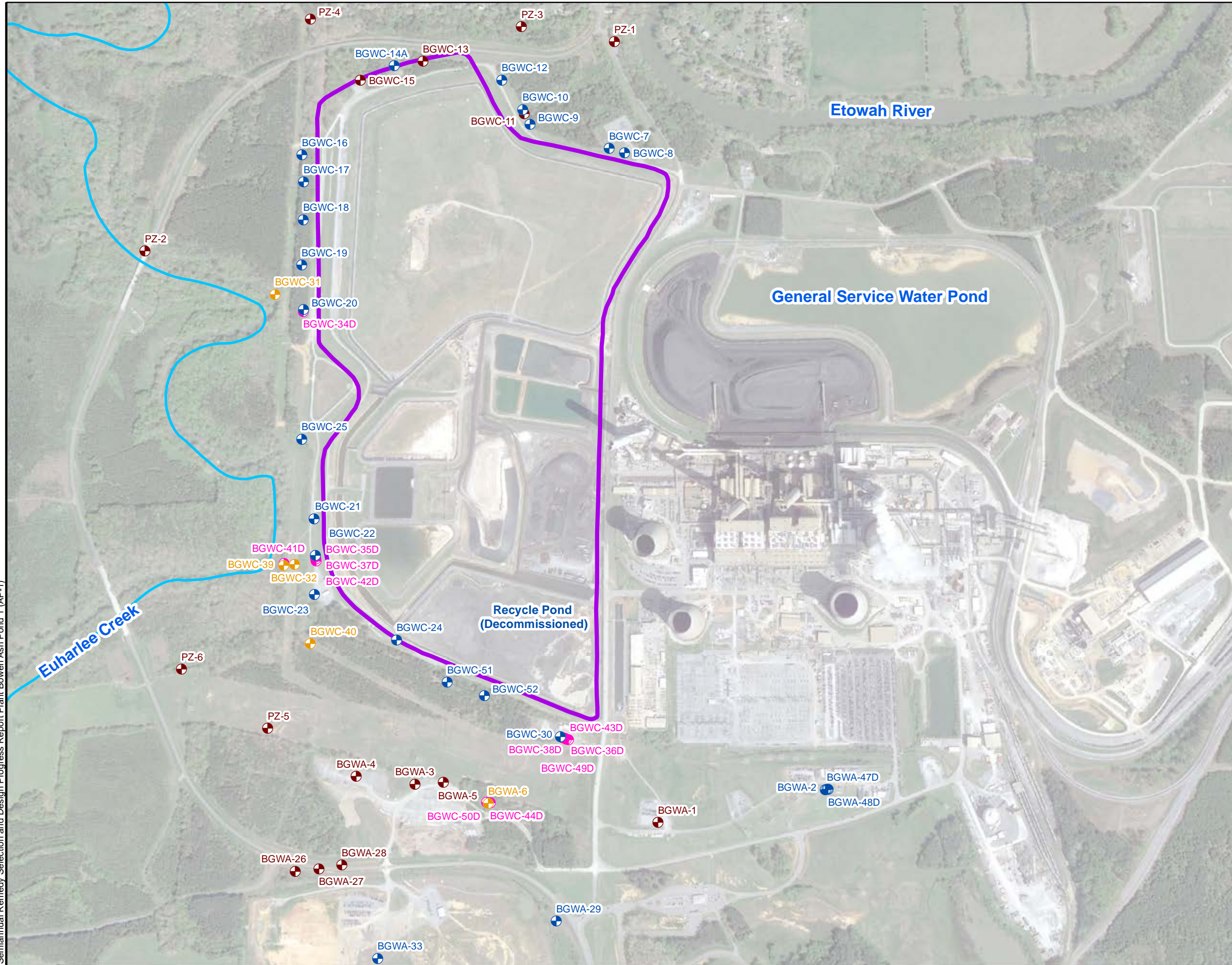
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants






KENNESAW, GA

AUGUST 2021

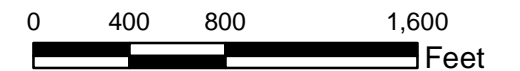
**FIGURE
1**



LEGEND

-  Compliance Monitoring Well
-  Horizontal Delineation Monitoring Well
-  Vertical Delineation Monitoring Well
-  Piezometer
-  Approximate AP-1 Boundary

Note:
1. Aerial photograph source: Google Earth Pro, April 2018.



MONITORING WELL NETWORK

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

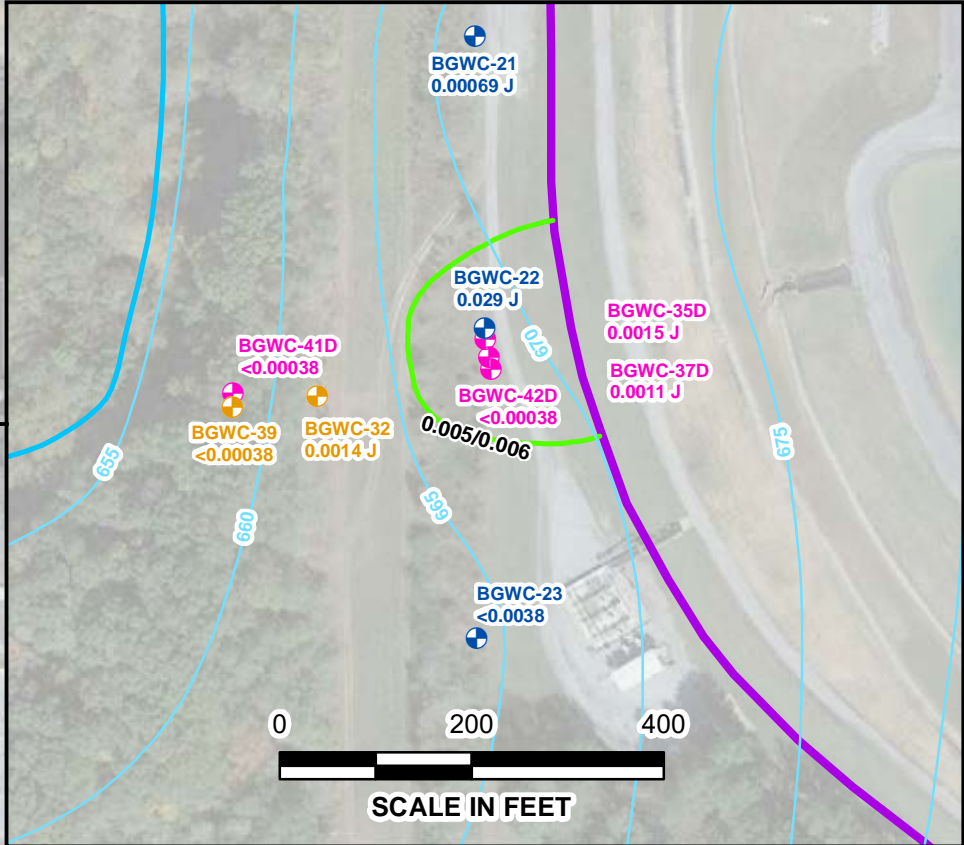
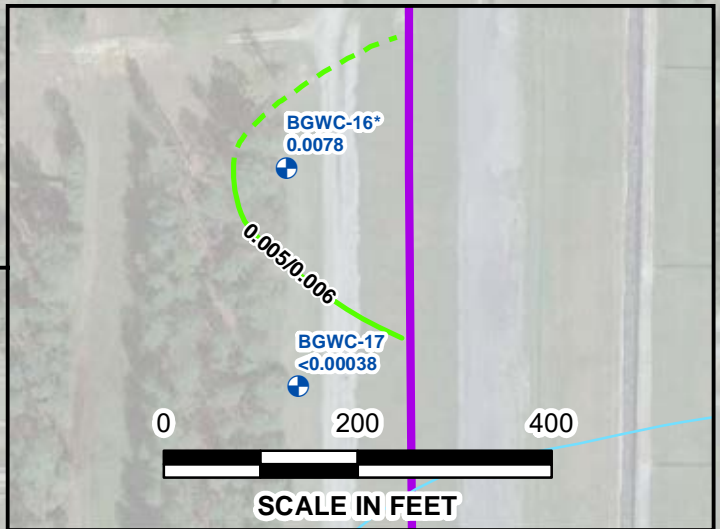
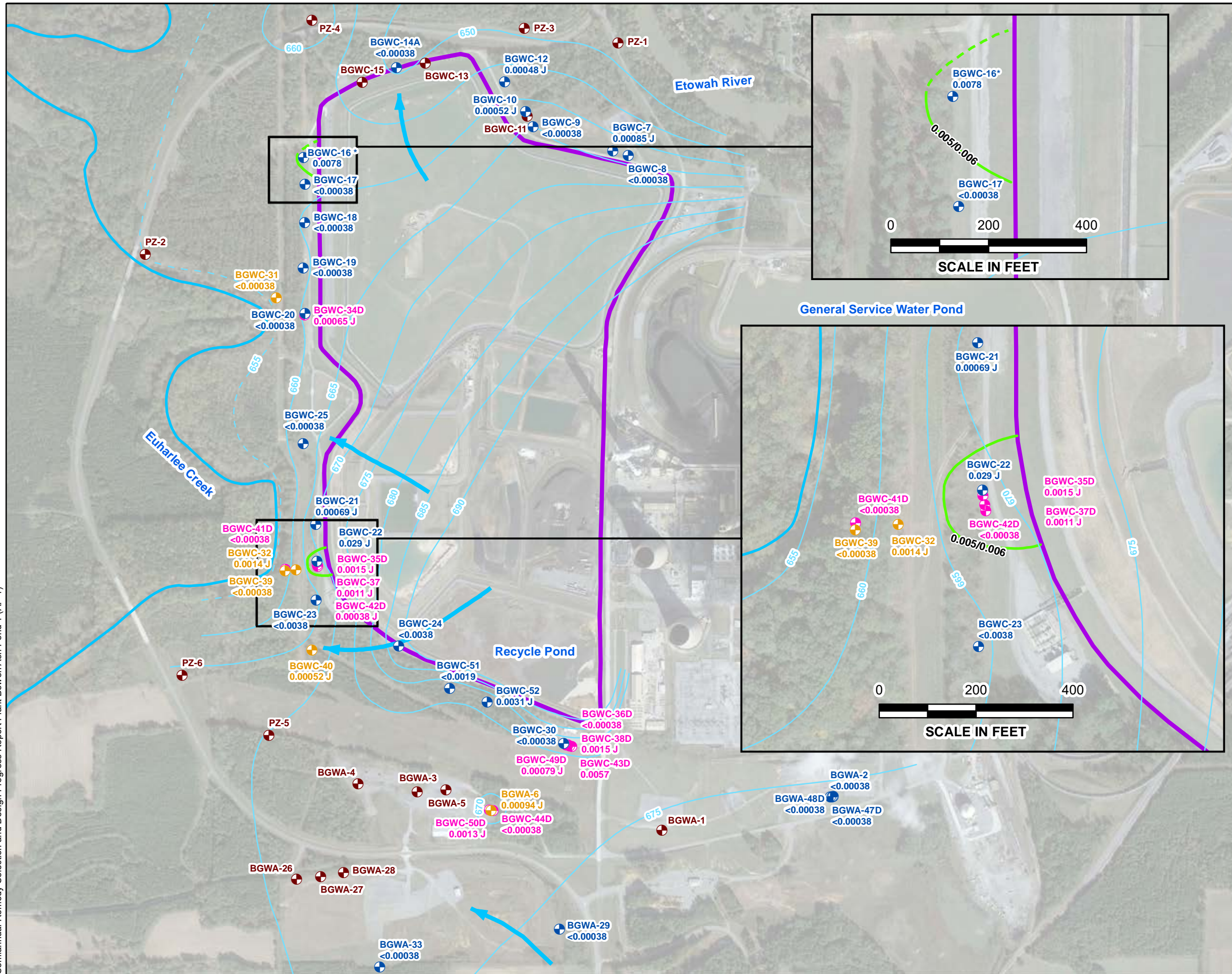
Prepared For:  Georgia Power

Prepared By:  Geosyntec
consultants

FIGURE
2

KENNESAW, GA

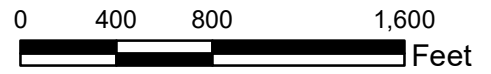
AUGUST 2021



LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Monitoring Well
- Vertical Delineation Monitoring Well (Not Used for Contouring)
- Groundwater Level Monitoring Piezometer
- State/Federal GWPS Cobalt Iso-Concentration Contour (mg/L)
- - - Groundwater Elevation Contour (dashed where inferred)
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary

- Notes:
1. Concentration data is from the March 2021 annual groundwater monitoring event. Concentrations are reported in mg/L.
 2. Due to the scale of the map, the iso-concentration contour represents both the state (0.005 mg/L) and federal (0.006 mg/L) Groundwater Protection Standard (GWPS).
 3. The "*" denotes that the most recent sampling event shows a cobalt concentration at BGWC-16 slightly above the GWPS for the Site; however, there is currently not an SSL reported for this location.
 4. Based on current data, cobalt is horizontally and vertically delineated to below the state and federal GWPS within the property boundary.
 5. Aerial photograph source: Google Earth Pro, November 2019.



**ISO-CONCENTRATION MAP
COBALT - MARCH 2021**

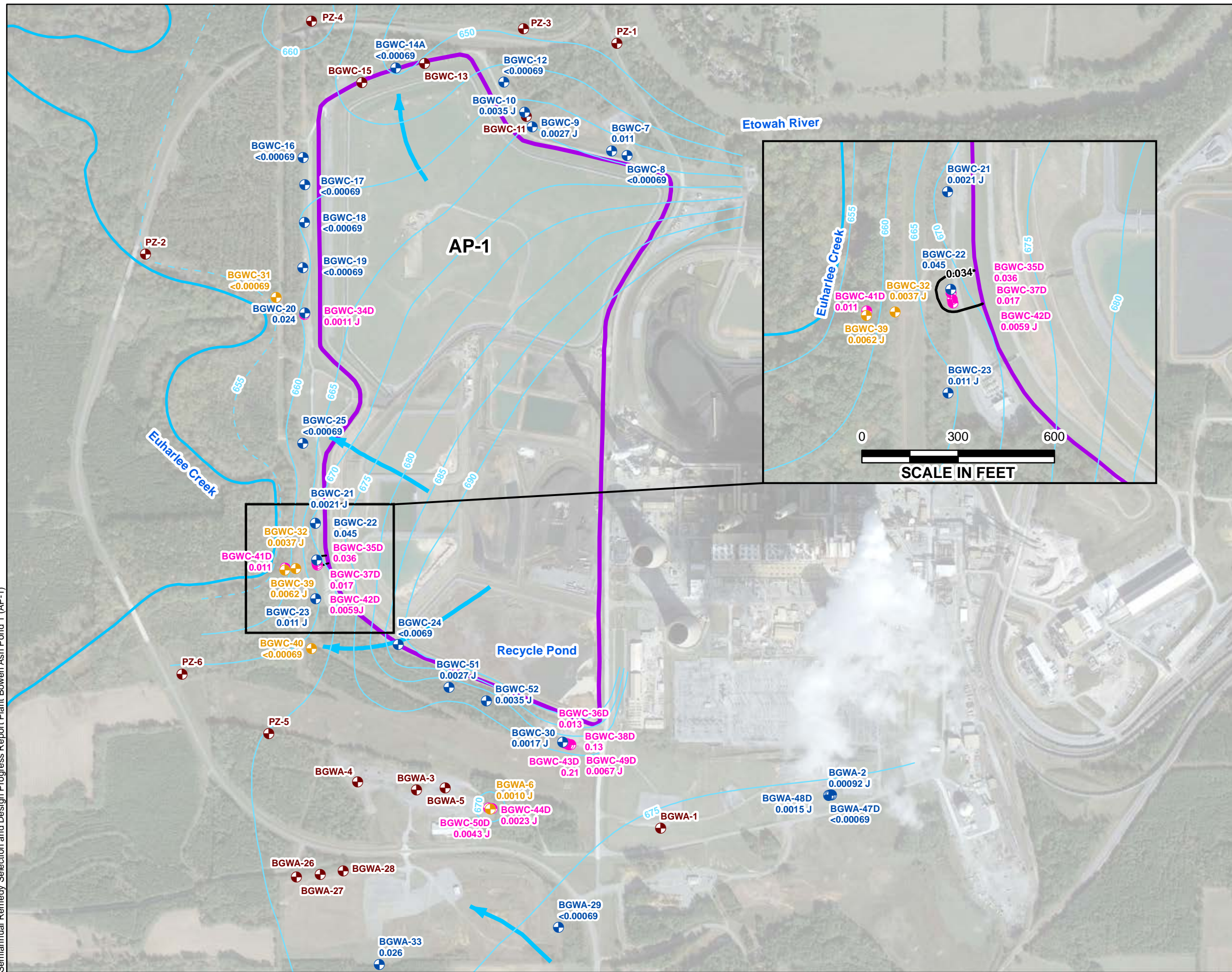
GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

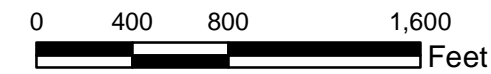
KENNESAW, GA AUGUST 2021

**FIGURE
3**



- LEGEND**
- Compliance Monitoring Well
 - Horizontal Delineation Monitoring Well
 - Vertical Delineation Monitoring Well (Not Used for Contouring)
 - Piezometer
 - State GWPS Molybdenum Iso-Concentration Contour (mg/L)
 - Federal GWPS Molybdenum Iso-Concentration Contour (mg/L) (dashed where inferred)
 - Groundwater Elevation Contour
 - ➡ Approximate Groundwater Flow Direction
 - ▭ Approximate AP-1 Boundary

- Notes:**
1. Concentration data is from the March 2021 semiannual groundwater monitoring event. Concentrations are reported in mg/L.
 2. The state Groundwater Protection Standard (GWPS) for molybdenum is 0.034 mg/L; the federal GWPS is 0.1 mg/L.
 3. Based on current data, molybdenum is horizontally and vertically delineated to below the state and federal GWPS within the property boundary.
 4. Aerial photograph source: Google Earth Pro, November 2019.



**ISO-CONCENTRATION MAP
MOLYBDENUM - MARCH 2021**

GEORGIA POWER COMPANY
PLANT BOWEN AP-1
BARTOW COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

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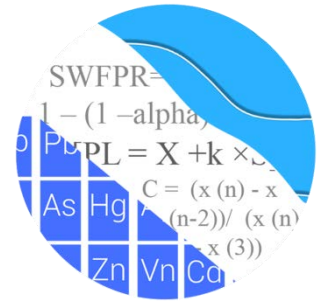
AUGUST 2021

**FIGURE
4**

APPENDIX E

Statistical Analysis Package

GROUNDWATER STATS CONSULTING



August 24, 2021

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Bowen Ash Pond 1 (AP-1)
March/April 2021 Sampling Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the Groundwater Detection and Assessment Monitoring Semi-Annual March/April 2021 sample event for Georgia Power Company's Plant Bowen AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling for new upgradient well BGWA-33, however, began in April 2019 and for upgradient wells BGWA-47D and BGWA-48D in May 2020. New downgradient wells BGWC-51 and BGWC-52 were first sampled in March 2021. All wells were sampled most recently at the end of March 2021 or beginning of April 2021. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** BGWA-2, BGWA-29, BGWA-33, BGWA-47D, and BGWA-48D

- **Downgradient wells:** BGWC-7, BGWC-8, BGWC-9, BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-18, BGWC-19, BGWC-20, BGWC-21, BGWC-22, BGWC-23, BGWC-24, BGWC-25, BGWC-30, BGWC-51, and BGWC-52
- **Delineation wells:** BGWA-6, BGWC-31, BGWC-32, BGWC-34D, BGWC-35D, BGWC-36, BGWC-37D, BGWC-38D, BGWC-39, BGWC-40, BGWC-41D, BGWC-42D, BGWC-43D, BGWC-44D, BGWC-49D, and BGWC-50D

Sampling for delineation wells started at various dates ranging from June 2016 to March 2021 as listed below:

- June 2016 - BGWA-6
- October 2018 - BGWC-31, BGWC-32, BGWC-34D, BGWC-35D, and BGWC-36D
- May 2019 - BGWC-37D and BGWC-38D
- December 2019 - BGWC-39 and BGWC-40
- May 2020 - BGWC-41D, BGWC-42D, BGWC-43D, and BGWC-44D
- March 2021 – BGWC-49D and BGWC-50D

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the following constituents listed below. The terms “constituent” and “parameter” are interchangeable.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and delineation well/constituent pairs with 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February and March 2021, all Appendix IV parameters were detected; therefore, they were required to be sampled during the March/April 2021 sample event.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data which generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the 2017 screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods are used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While this was not required for this report, in some cases, deselecting the earlier portion

of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Statistical Analysis of Appendix III Parameters – March/April 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged in the database. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through April 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The March 2021 sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). During this analysis, the reporting limit for boron decreased from the previous analysis (<0.1 mg/L to 0.04 mg/L) and resulted in a slight change in statistical limits (0.05 mg/L to 0.043 mg/L).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters and a summary table of the interwell prediction limits follows this letter.

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary and complete graphical results of the trend tests follow

this report. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- Boron: BGWC-22 and BGWC-23
- Calcium: BGWA-2 (upgradient), BGWC-12, BGWC-20, BGWC-22, BGWC-23, and BGWA-48D (upgradient)
- Chloride: BGWC-10, BGWC-22, and BGWC-23
- Sulfate: BGWA-2 (upgradient), BGWC-12, and BGWC-23, and BGWA-47D (upgradient)
- TDS: BGWC-12 and BGWC-23

Decreasing:

- Boron: BGWC-7, BGWC-9, and BGWC-30
- Chloride: BGWC-12, BGWC-16, BGWA-29 (upgradient), and BGWC-30
- pH: BGWC-16, BGWC-22, and BGWC-24
- TDS: BGWC-7

Statistical Analysis of Appendix IV Parameters – March/April 2021

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or only trace values below the reporting limits do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through April 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR §257.95(h) (1-3), the Federal GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title

- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR Rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following Georgia EPD Rule requirements and the Federal CCR requirements, State and Federal GWPS were established for statistical comparison of Appendix IV constituents for the March/April 2021 sample event (Figure G).

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient wells and delineation wells with a minimum of 4 samples. The Sanitas software was used to calculate both the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a) for State requirements and the CCR Rules for Federal requirements and (Figures H and I, respectively). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 mg/L to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits were lower for these constituents. However, in all cases for Federal and State confidence intervals, except for lead which uses the background limit as the GWPS for the State confidence intervals, the established MCL was higher than the background limits. Therefore, the GWPS were not affected. Additionally, some of the confidence intervals constructed on downgradient wells resulted in decreased upper and lower confidence limits since all historical non-detects within a given well are replaced with the most recent reporting limit.

Note that the lower confidence limits for some wells compute as negative (due to the standard deviation and sample size) and are parametric, but, of course, may be regarded as zero. Summaries of the confidence intervals follow this letter. Statistical exceedances were identified for the following State and Federal well/constituent pairs:

State:

- Arsenic: BGWC-34D
- Cobalt: BGWC-22
- Molybdenum: BGWC-22, BGWC-38D, and BGWC-43D

Federal:

- Arsenic: BGWC-34D
- Cobalt: BGWC-22
- Molybdenum: BGWC-38D

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Bowen AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient and Delineation

Analysis Run 6/9/2021 9:27 AM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Antimony (mg/L)

BGWA-6, BGWC-12, BGWC-18, BGWC-21, BGWC-30, BGWC-39

Beryllium (mg/L)

BGWA-6, BGWC-10, BGWC-14A, BGWC-20, BGWC-21, BGWC-25, BGWC-30, BGWC-31, BGWC-32, BGWC-34D, BGWC-35D, BGWC-37D, BGWC-40, BGWC-41D, BGWC-42D, BGWC-43D, BGWC-44D, BGWC-7, BGWC-8, BGWC-9

Cadmium (mg/L)

BGWA-6, BGWC-10, BGWC-12, BGWC-21, BGWC-25, BGWC-31, BGWC-32, BGWC-34D, BGWC-35D, BGWC-36D, BGWC-37D, BGWC-40, BGWC-41D, BGWC-42D, BGWC-44D, BGWC-7, BGWC-8, BGWC-9

Chromium (mg/L)

BGWC-19, BGWC-22, BGWC-34D, BGWC-43D

Cobalt (mg/L)

BGWC-42D, BGWC-44D

Fluoride (mg/L)

BGWC-31

Lead (mg/L)

BGWC-7

Lithium (mg/L)

BGWC-18, BGWC-19, BGWC-21, BGWC-25, BGWC-31, BGWC-32

Mercury (mg/L)

BGWC-14A, BGWC-21, BGWC-31, BGWC-32, BGWC-34D, BGWC-35D, BGWC-37D, BGWC-39, BGWC-40, BGWC-41D, BGWC-42D, BGWC-43D, BGWC-44D

Molybdenum (mg/L)

BGWC-12, BGWC-16, BGWC-17, BGWC-18

Selenium (mg/L)

BGWC-10, BGWC-25, BGWC-35D, BGWC-37D, BGWC-44D, BGWC-7

Thallium (mg/L)

BGWC-10, BGWC-21, BGWC-25, BGWC-31, BGWC-37D, BGWC-41D, BGWC-42D, BGWC-44D, BGWC-8

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BGWC-10	0.043	n/a	3/30/2021	0.56	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-12	0.043	n/a	3/24/2021	1.2	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-14A	0.043	n/a	3/24/2021	0.6	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-16	0.043	n/a	3/24/2021	1.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-17	0.043	n/a	3/24/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-18	0.043	n/a	3/24/2021	0.5	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-19	0.043	n/a	3/26/2021	0.24	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-20	0.043	n/a	3/29/2021	4.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-22	0.043	n/a	3/29/2021	17.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-23	0.043	n/a	3/26/2021	15.8	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-24	0.043	n/a	3/26/2021	31	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-25	0.043	n/a	3/26/2021	0.17	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-30	0.043	n/a	3/25/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-7	0.043	n/a	3/30/2021	1.4	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-9	0.043	n/a	3/24/2021	0.45	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-12	117	n/a	3/24/2021	144	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-16	117	n/a	3/24/2021	140	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-20	117	n/a	3/29/2021	296	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-22	117	n/a	3/29/2021	714	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-23	117	n/a	3/26/2021	717	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-24	117	n/a	3/26/2021	821	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-7	117	n/a	3/30/2021	145	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Chloride (mg/L)	BGWC-10	8.885	n/a	3/30/2021	23.8	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-12	8.885	n/a	3/24/2021	18.4	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-14A	8.885	n/a	3/24/2021	14.1	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-16	8.885	n/a	3/24/2021	24	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-17	8.885	n/a	3/24/2021	35.6	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-20	8.885	n/a	3/29/2021	131	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-22	8.885	n/a	3/29/2021	886	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-23	8.885	n/a	3/26/2021	928	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-24	8.885	n/a	3/26/2021	1240	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-30	8.885	n/a	3/25/2021	85.5	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
pH (s.u.)	BGWC-16	8.317	6.789	3/24/2021	6.7	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-18	8.317	6.789	3/24/2021	6.48	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-19	8.317	6.789	3/26/2021	6.61	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-22	8.317	6.789	3/29/2021	6.71	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-24	8.317	6.789	3/26/2021	6.54	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
Sulfate (mg/L)	BGWC-10	78	n/a	3/30/2021	104	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-12	78	n/a	3/24/2021	301	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-14A	78	n/a	3/24/2021	115	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-16	78	n/a	3/24/2021	317	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-17	78	n/a	3/24/2021	93.7	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-20	78	n/a	3/29/2021	504	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-22	78	n/a	3/29/2021	772	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-23	78	n/a	3/26/2021	679	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-24	78	n/a	3/26/2021	515	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-7	78	n/a	3/30/2021	290	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BGWC-12	461	n/a	3/24/2021	752	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-16	461	n/a	3/24/2021	610	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-20	461	n/a	3/29/2021	1100	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-22	461	n/a	3/29/2021	2430	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-23	461	n/a	3/26/2021	2690	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-24	461	n/a	3/26/2021	3070	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-7	461	n/a	3/30/2021	570	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BGWC-10	0.043	n/a	3/30/2021	0.56	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-12	0.043	n/a	3/24/2021	1.2	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-14A	0.043	n/a	3/24/2021	0.6	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-16	0.043	n/a	3/24/2021	1.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-17	0.043	n/a	3/24/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-18	0.043	n/a	3/24/2021	0.5	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-19	0.043	n/a	3/26/2021	0.24	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-20	0.043	n/a	3/29/2021	4.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-21	0.043	n/a	3/29/2021	0.038J	No	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-22	0.043	n/a	3/29/2021	17.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-23	0.043	n/a	3/26/2021	15.8	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-24	0.043	n/a	3/26/2021	31	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-25	0.043	n/a	3/26/2021	0.17	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-30	0.043	n/a	3/25/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-7	0.043	n/a	3/30/2021	1.4	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-8	0.043	n/a	3/24/2021	0.04J	No	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-9	0.043	n/a	3/24/2021	0.45	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-10	117	n/a	3/30/2021	61.3	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-12	117	n/a	3/24/2021	144	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-14A	117	n/a	3/24/2021	91.9	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-16	117	n/a	3/24/2021	140	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-17	117	n/a	3/24/2021	72	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-18	117	n/a	3/24/2021	48.2	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-19	117	n/a	3/26/2021	46.4	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-20	117	n/a	3/29/2021	296	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-21	117	n/a	3/29/2021	46.6	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-22	117	n/a	3/29/2021	714	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-23	117	n/a	3/26/2021	717	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-24	117	n/a	3/26/2021	821	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-25	117	n/a	3/26/2021	52.8	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-30	117	n/a	3/25/2021	81.1	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-7	117	n/a	3/30/2021	145	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-8	117	n/a	3/24/2021	42.1	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-9	117	n/a	3/24/2021	59.9	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Chloride (mg/L)	BGWC-10	8.885	n/a	3/30/2021	23.8	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-12	8.885	n/a	3/24/2021	18.4	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-14A	8.885	n/a	3/24/2021	14.1	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-16	8.885	n/a	3/24/2021	24	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-17	8.885	n/a	3/24/2021	35.6	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-18	8.885	n/a	3/24/2021	6.1	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-19	8.885	n/a	3/26/2021	5.8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-20	8.885	n/a	3/29/2021	131	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-21	8.885	n/a	3/29/2021	5	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-22	8.885	n/a	3/29/2021	886	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-23	8.885	n/a	3/26/2021	928	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-24	8.885	n/a	3/26/2021	1240	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-25	8.885	n/a	3/26/2021	5.7	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-30	8.885	n/a	3/25/2021	85.5	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-7	8.885	n/a	3/30/2021	8.8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-8	8.885	n/a	3/24/2021	1.5	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-9	8.885	n/a	3/24/2021	8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Fluoride (mg/L)	BGWC-10	0.57	n/a	3/30/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-12	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-14A	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-16	0.57	n/a	3/24/2021	0.053J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-17	0.57	n/a	3/24/2021	0.11	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-18	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-19	0.57	n/a	3/26/2021	0.053J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-20	0.57	n/a	3/29/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-21	0.57	n/a	3/29/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-22	0.57	n/a	3/29/2021	0.22	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-23	0.57	n/a	3/26/2021	0.054J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-24	0.57	n/a	3/26/2021	0.095J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-25	0.57	n/a	3/26/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-30	0.57	n/a	3/25/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-7	0.57	n/a	3/30/2021	0.18	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-8	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-9	0.57	n/a	3/24/2021	0.075J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
pH (s.u.)	BGWC-10	8.317	6.789	3/30/2021	7.41	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-12	8.317	6.789	3/24/2021	7.04	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-14A	8.317	6.789	3/24/2021	7.04	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-16	8.317	6.789	3/24/2021	6.7	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-17	8.317	6.789	3/24/2021	7.27	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-18	8.317	6.789	3/24/2021	6.48	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-19	8.317	6.789	3/26/2021	6.61	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-20	8.317	6.789	3/29/2021	7.24	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-21	8.317	6.789	3/29/2021	7.75	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-22	8.317	6.789	3/29/2021	6.71	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-23	8.317	6.789	3/26/2021	6.91	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-24	8.317	6.789	3/26/2021	6.54	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-25	8.317	6.789	3/26/2021	7.36	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-30	8.317	6.789	3/25/2021	7.21	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-7	8.317	6.789	3/30/2021	7.05	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-8	8.317	6.789	3/24/2021	7.66	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-9	8.317	6.789	3/24/2021	7.26	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
Sulfate (mg/L)	BGWC-10	78	n/a	3/30/2021	104	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-12	78	n/a	3/24/2021	301	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-14A	78	n/a	3/24/2021	115	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-16	78	n/a	3/24/2021	317	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-17	78	n/a	3/24/2021	93.7	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-18	78	n/a	3/24/2021	67.3	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-19	78	n/a	3/26/2021	66.8	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-20	78	n/a	3/29/2021	504	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-21	78	n/a	3/29/2021	55.2	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-22	78	n/a	3/29/2021	772	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-23	78	n/a	3/26/2021	679	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-24	78	n/a	3/26/2021	515	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-25	78	n/a	3/26/2021	21.3	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-30	78	n/a	3/25/2021	28.1	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-7	78	n/a	3/30/2021	290	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-8	78	n/a	3/24/2021	24.2	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-9	78	n/a	3/24/2021	70.5	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BGWC-10	461	n/a	3/30/2021	321	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-12	461	n/a	3/24/2021	752	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-14A	461	n/a	3/24/2021	445	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-16	461	n/a	3/24/2021	610	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-17	461	n/a	3/24/2021	374	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-18	461	n/a	3/24/2021	240	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-19	461	n/a	3/26/2021	205	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-20	461	n/a	3/29/2021	1100	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-21	461	n/a	3/29/2021	198	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-22	461	n/a	3/29/2021	2430	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-23	461	n/a	3/26/2021	2690	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-24	461	n/a	3/26/2021	3070	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-25	461	n/a	3/26/2021	215	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-30	461	n/a	3/25/2021	358	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-7	461	n/a	3/30/2021	570	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-8	461	n/a	3/24/2021	198	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-9	461	n/a	3/24/2021	294	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BGWC-22	1.476	70	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-23	1.88	74	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-30	-5.742	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-7	-0.1547	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-9	-0.05575	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-2 (bg)	2.601	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-48D (bg)	47.88	26	25	Yes	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-12	12.25	95	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-20	16.08	76	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-22	75.86	108	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-23	81.21	94	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-29 (bg)	-0.1742	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-10	1.218	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-12	-5.67	-111	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-16	-5.211	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-22	127.4	98	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-23	118.3	92	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-30	-218.8	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-16	-0.06875	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-22	-0.06538	-121	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-24	-0.06234	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-2 (bg)	1.605	83	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-47D (bg)	18.39	27	25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-12	26.28	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-23	45.21	85	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-12	52.03	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-23	231.2	80	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-7	-57.86	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BGWA-2 (bg)	-0.001591	-37	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-29 (bg)	0	-24	-63	No	17	52.94	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-33 (bg)	-0.01161	-6	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-47D (bg)	-0.001327	-2	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-48D (bg)	0.0249	23	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-10	0	0	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-12	0.037	45	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-14A	0.4014	12	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-16	-0.0824	-50	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-17	-0.09538	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-18	-0.09044	-58	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-19	-0.06128	-35	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-20	0.2345	50	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-22	1.476	70	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-23	1.88	74	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-24	2.12	43	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-25	0.004105	40	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-30	-5.742	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-7	-0.1547	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-9	-0.05575	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-2 (bg)	2.601	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-29 (bg)	-0.0148	-1	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-33 (bg)	4.655	5	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-47D (bg)	24.64	21	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-48D (bg)	47.88	26	25	Yes	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-12	12.25	95	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-16	4.779	40	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-20	16.08	76	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-22	75.86	108	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-23	81.21	94	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-24	74.21	42	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-7	-0.6966	-12	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-2 (bg)	0.3246	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-29 (bg)	-0.1742	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-33 (bg)	-1.108	-4	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-47D (bg)	-0.4719	-11	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-48D (bg)	4.306	23	25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-10	1.218	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-12	-5.67	-111	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-14A	-2.804	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-16	-5.211	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-17	1.211	14	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-20	0.104	16	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-22	127.4	98	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-23	118.3	92	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-24	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-30	-218.8	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-2 (bg)	-0.02015	-46	-87	No	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-29 (bg)	0.01591	33	81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-33 (bg)	0.01589	1	21	No	8	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-47D (bg)	-0.2246	-25	-30	No	10	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-48D (bg)	-0.3269	-25	-30	No	10	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-16	-0.06875	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-18	-0.06731	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-19	-0.004877	-14	-81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-22	-0.06538	-121	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-24	-0.06234	-123	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BGWA-2 (bg)	1.605	83	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-29 (bg)	-0.245	-13	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-33 (bg)	-1.127	-4	-12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-47D (bg)	18.39	27	25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-48D (bg)	-15.95	-10	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-10	0	-30	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-12	26.28	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-14A	174.6	8	25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-16	12.74	55	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-17	-4.313	-27	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-20	-9.594	-26	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-22	26.43	33	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-23	45.21	85	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-24	7.21	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-7	-40.85	-45	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-2 (bg)	7.48	36	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-29 (bg)	-1.622	-21	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-33 (bg)	-26.04	-8	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-47D (bg)	28.54	10	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-48D (bg)	65.18	18	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-12	52.03	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-16	7.303	26	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-20	14.4	19	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-22	175	47	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-23	231.2	80	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-24	-71.97	-15	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-7	-57.86	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:39 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	n/a	55	n/a	n/a	56.36	n/a	n/a	0.05954	NP Inter(NDs)
Arsenic (mg/L)	0.01	n/a	n/a	65	n/a	n/a	46.15	n/a	n/a	0.03565	NP Inter(normality)
Barium (mg/L)	0.218	n/a	n/a	65	n/a	n/a	0	n/a	n/a	0.03565	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	61	n/a	n/a	98.36	n/a	n/a	0.04377	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	65	n/a	n/a	96.92	n/a	n/a	0.03565	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	61	n/a	n/a	52.46	n/a	n/a	0.04377	NP Inter(NDs)
Cobalt (mg/L)	0.005	n/a	n/a	66	n/a	n/a	89.39	n/a	n/a	0.03387	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.696	n/a	n/a	65	0.8408	0.4278	0	None	No	0.05	Inter
Fluoride (mg/L)	0.57	n/a	n/a	68	n/a	n/a	50	n/a	n/a	0.03056	NP Inter(normality)
Lead (mg/L)	0.0024	n/a	n/a	61	n/a	n/a	55.74	n/a	n/a	0.04377	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	65	n/a	n/a	83.08	n/a	n/a	0.03565	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	61	n/a	n/a	95.08	n/a	n/a	0.04377	NP Inter(NDs)
Molybdenum (mg/L)	0.034	n/a	n/a	67	n/a	n/a	52.24	n/a	n/a	0.03217	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	61	n/a	n/a	88.52	n/a	n/a	0.04377	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	65	n/a	n/a	83.08	n/a	n/a	0.03565	NP Inter(NDs)

BOWEN ASH POND 1 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0042	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.01	0.01	0.01
Barium, Total (mg/L)	2		0.22	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.005	0.006	0.005
Combined Radium, Total (pCi/L)	5		1.7	5	5
Fluoride, Total (mg/L)	4		0.57	4	4
Lead, Total (mg/L)		0.015	0.0024	0.015	0.0024
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.034	0.1	0.034
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

State Confidence Intervals - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.005	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.034	Yes	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.034	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.034	Yes	5	0.164	0.04159	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BGWC-10	0.003	0.0022	0.006	No	15	0.002947	0.0002066	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-14A	0.003	0.00061	0.006	No	10	0.002491	0.001076	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	BGWC-16	0.003	0.0004	0.006	No	15	0.002827	0.0006713	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-17	0.003	0.0002	0.006	No	15	0.002813	0.000723	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-19	0.003	0.0005	0.006	No	15	0.002833	0.0006455	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-20	0.003	0.0014	0.006	No	15	0.002727	0.0007411	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-22	0.003	0.0023	0.006	No	15	0.002712	0.0007297	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-23	0.003	0.0009	0.006	No	15	0.002516	0.001008	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-24	0.003	0.00048	0.006	No	15	0.002656	0.0009081	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-25	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-31	0.003	0.00038	0.006	No	5	0.002476	0.001172	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-32	0.003	0.00036	0.006	No	5	0.00195	0.001438	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-34D	0.003	0.00049	0.006	No	5	0.002056	0.001297	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-35D	0.003	0.00064	0.006	No	5	0.00206	0.001287	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-36D	0.003	0.00096	0.006	No	5	0.002592	0.0009123	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-37D	0.003	0.00041	0.006	No	5	0.002322	0.001124	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-38D	0.001767	-0.00008674	0.006	No	5	0.001704	0.001276	40	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	BGWC-40	0.003	0.0005	0.006	No	5	0.0025	0.001118	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-7	0.003	0.0015	0.006	No	15	0.00246	0.0009775	73.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-8	0.003	0.00059	0.006	No	15	0.002497	0.001043	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-9	0.003	0.00075	0.006	No	14	0.002459	0.001079	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWA-6	0.005	0.00095	0.01	No	16	0.003279	0.002039	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-10	0.007178	0.005528	0.01	No	19	0.006353	0.001409	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-12	0.005	0.0006	0.01	No	19	0.002439	0.00205	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-14A	0.005	0.0011	0.01	No	10	0.00391	0.001774	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BGWC-16	0.005	0.00073	0.01	No	19	0.00301	0.002168	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-17	0.005	0.0008	0.01	No	19	0.003489	0.00205	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-18	0.005	0.00066	0.01	No	19	0.003437	0.002119	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-19	0.005	0.00067	0.01	No	19	0.002977	0.002204	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-20	0.005	0.0011	0.01	No	19	0.002701	0.001853	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-21	0.005	0.00079	0.01	No	18	0.0028	0.00206	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-22	0.003232	0.001821	0.01	No	19	0.002526	0.001205	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-23	0.003132	0.001656	0.01	No	19	0.002394	0.001261	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-24	0.006324	0.00317	0.01	No	19	0.004747	0.002693	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-25	0.003101	0.002067	0.01	No	19	0.002584	0.0008827	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-30	0.005	0.00064	0.01	No	19	0.002591	0.001908	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-31	0.005226	0.003449	0.01	No	8	0.004338	0.0008383	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-32	0.003242	0.000653	0.01	No	8	0.001891	0.001499	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-35D	0.003125	0.0009896	0.01	No	8	0.002058	0.001007	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-36D	0.001503	0.0004669	0.01	No	8	0.002489	0.002139	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	BGWC-37D	0.04467	0.008529	0.01	No	5	0.0266	0.01078	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-38D	0.005353	0.0005847	0.01	No	5	0.00254	0.001641	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-39	0.005	0.00055	0.01	No	5	0.00363	0.002011	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BGWC-40	0.002628	-0.0002748	0.01	No	5	0.002706	0.002224	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BGWC-7	0.003055	0.001912	0.01	No	19	0.002542	0.001048	10.53	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-8	0.005	0.00047	0.01	No	19	0.002293	0.002138	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-9	0.00319	0.00211	0.01	No	18	0.00265	0.0008926	5.556	None	No	0.01	Param.
Barium (mg/L)	BGWA-6	0.0144	0.0114	2	No	16	0.01484	0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-10	0.06063	0.04703	2	No	19	0.05421	0.01226	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-12	0.03516	0.0294	2	No	19	0.03228	0.004913	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-14A	0.04321	0.03319	2	No	10	0.0382	0.005613	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-16	0.03012	0.02712	2	No	19	0.02867	0.002664	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BGWC-17	0.01905	0.01588	2	No	19	0.01746	0.00271	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-18	0.03567	0.03023	2	No	19	0.03305	0.004747	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-19	0.03866	0.03092	2	No	19	0.03479	0.006612	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-20	0.03406	0.03046	2	No	19	0.03226	0.003075	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-21	0.04545	0.03429	2	No	18	0.03987	0.00922	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-22	0.09254	0.08314	2	No	19	0.08756	0.008615	0	None	x^2	0.01	Param.
Barium (mg/L)	BGWC-23	0.11	0.084	2	No	19	0.09761	0.01497	0	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	BGWC-24	0.1141	0.0845	2	No	19	0.09929	0.02527	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-25	0.02585	0.01824	2	No	19	0.02266	0.006985	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-30	0.192	0.074	2	No	19	0.1266	0.06091	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-31	0.055	0.032	2	No	8	0.03925	0.007046	0	None	No	0.004	NP (normality)
Barium (mg/L)	BGWC-32	0.1335	0.08823	2	No	8	0.1109	0.02136	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-34D	0.04844	0.03331	2	No	8	0.04088	0.00714	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-35D	0.11	0.06774	2	No	8	0.08888	0.01994	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-36D	0.09071	0.0615	2	No	8	0.07588	0.01541	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-37D	0.1207	0.07892	2	No	5	0.0998	0.01246	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-38D	0.2664	0.04482	2	No	5	0.1556	0.06611	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-39	0.09667	0.02733	2	No	5	0.062	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-40	0.06504	0.03936	2	No	5	0.0522	0.007662	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-7	0.04002	0.03429	2	No	19	0.03716	0.004895	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-8	0.03085	0.02684	2	No	19	0.02804	0.006046	0	None	x^3	0.01	Param.
Barium (mg/L)	BGWC-9	0.03239	0.02767	2	No	18	0.03003	0.003898	0	None	No	0.01	Param.
Beryllium (mg/L)	BGWC-12	0.0005	0.000076	0.004	No	17	0.0004484	0.0001459	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-16	0.0005	0.00011	0.004	No	17	0.0003147	0.0002034	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-17	0.0005	0.000065	0.004	No	17	0.0004482	0.0001463	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-18	0.0005	0.000076	0.004	No	17	0.0003504	0.0002091	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-19	0.0005	0.00008	0.004	No	17	0.0003732	0.0002026	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-22	0.0005	0.000099	0.004	No	17	0.0003134	0.0002045	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-23	0.0005	0.000054	0.004	No	17	0.0004738	0.0001082	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-24	0.0005	0.00013	0.004	No	17	0.0003884	0.0001791	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-36D	0.0005	0.00007	0.004	No	7	0.0004386	0.0001625	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	BGWC-38D	0.0005	0.00006	0.004	No	5	0.0003296	0.0002335	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	BGWC-39	0.0005	0.000079	0.004	No	5	0.0004158	0.0001883	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-14A	0.0005	0.00016	0.005	No	10	0.000335	0.0001745	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	BGWC-16	0.0017	0.0011	0.005	No	19	0.001416	0.0002911	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-17	0.0005	0.00015	0.005	No	19	0.0003179	0.0001814	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-18	0.0004049	0.0001676	0.005	No	19	0.0004133	0.0001907	42.11	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BGWC-19	0.0005	0.0002	0.005	No	19	0.0004421	0.0001387	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-20	0.0005	0.00008	0.005	No	19	0.0004779	0.00009635	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-22	0.0005	0.00038	0.005	No	19	0.0004495	0.000111	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-23	0.0005	0.00019	0.005	No	19	0.0004837	0.00007112	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-24	0.00611	0.003177	0.005	No	19	0.004643	0.002504	0	None	No	0.01	Param.
Cadmium (mg/L)	BGWC-30	0.0005	0.0003	0.005	No	19	0.0004042	0.000142	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-38D	0.00081	0.00032	0.005	No	5	0.000526	0.0001769	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-39	0.0002183	0.0001329	0.005	No	5	0.000304	0.0001802	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	BGWA-6	0.005	0.0044	0.1	No	15	0.004727	0.0009059	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-10	0.005	0.0011	0.1	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-12	0.005	0.00058	0.1	No	17	0.003684	0.002104	70.59	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-14A	0.005	0.005	0.1	No	10	0.0071	0.006641	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	BGWC-16	0.005	0.0019	0.1	No	17	0.004565	0.001245	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-17	0.005	0.00044	0.1	No	17	0.004461	0.001523	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-18	0.005	0.0011	0.1	No	17	0.004248	0.001679	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-20	0.005	0.00096	0.1	No	17	0.003496	0.001892	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-21	0.005	0.0025	0.1	No	16	0.004557	0.00127	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-23	0.005	0.0033	0.1	No	17	0.004194	0.001608	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-24	0.005	0.0009	0.1	No	17	0.004235	0.001706	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-25	0.005	0.0021	0.1	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-30	0.005	0.00073	0.1	No	17	0.002054	0.001972	29.41	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-31	0.005	0.00056	0.1	No	7	0.003186	0.002269	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-32	0.005	0.00057	0.1	No	7	0.002587	0.002266	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-35D	0.005	0.00067	0.1	No	7	0.003213	0.002233	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-36D	0.005	0.00057	0.1	No	7	0.002534	0.002311	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-37D	0.005	0.00068	0.1	No	5	0.003272	0.002366	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-38D	0.005	0.00042	0.1	No	5	0.003704	0.002012	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-39	0.005	0.001	0.1	No	5	0.0042	0.001789	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-40	0.005	0.00043	0.1	No	5	0.001528	0.001948	20	None	No	0.031	NP (normality)
Chromium (mg/L)	BGWC-7	0.005	0.00095	0.1	No	17	0.004242	0.00169	82.35	None	No	0.01	NP (NDs)

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Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BGWC-8	0.005	0.001	0.1	No	17	0.00593	0.01482	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-9	0.005	0.002	0.1	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWA-6	0.005	0.00042	0.005	No	16	0.003336	0.002226	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-10	0.005	0.00056	0.005	No	19	0.004035	0.001921	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-12	0.005	0.00035	0.005	No	19	0.00284	0.002341	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-14A	0.001787	0.0007838	0.005	No	10	0.002481	0.001794	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BGWC-16	0.0089	0.0045	0.005	No	19	0.0062	0.002046	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-17	0.005	0.00015	0.005	No	19	0.004745	0.001113	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-18	0.005	0.00071	0.005	No	19	0.003833	0.002011	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-19	0.005	0.000072	0.005	No	19	0.004741	0.001131	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-20	0.005	0.0008	0.005	No	19	0.004284	0.001701	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-21	0.005	0.00041	0.005	No	18	0.002822	0.002252	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.005	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-23	0.005	0.00046	0.005	No	19	0.003617	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-24	0.004365	0.003046	0.005	No	19	0.003705	0.001126	10.53	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-25	0.005	0.0006	0.005	No	19	0.004517	0.001449	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-30	0.005	0.0008	0.005	No	19	0.003006	0.002167	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-31	0.005	0.00031	0.005	No	8	0.001605	0.0021	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-32	0.009157	0.002953	0.005	No	10	0.006055	0.003477	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-34D	0.005	0.00039	0.005	No	8	0.001714	0.002044	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-35D	0.002784	0.0005469	0.005	No	8	0.001622	0.00143	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BGWC-36D	0.005	0.00038	0.005	No	8	0.001752	0.002018	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-37D	0.002024	0.0004958	0.005	No	5	0.00126	0.0004561	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-38D	0.01423	-0.003147	0.005	No	5	0.00554	0.005184	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-39	0.005	0.00047	0.005	No	6	0.00323	0.002186	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	BGWC-40	0.0006256	0.0004184	0.005	No	5	0.000522	0.000061810		None	No	0.01	Param.
Cobalt (mg/L)	BGWC-7	0.00094	0.00067	0.005	No	19	0.001645	0.001783	21.05	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-8	0.005	0.0012	0.005	No	19	0.004036	0.00193	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-9	0.005	0.0006	0.005	No	18	0.00423	0.001773	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BGWA-6	0.6779	0.2858	5	No	16	0.5072	0.334	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-10	1.496	0.9507	5	No	19	1.25	0.5107	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-12	0.7903	0.342	5	No	19	0.5662	0.3828	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-14A	1.516	0.5886	5	No	10	1.052	0.5195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-16	1.235	0.6558	5	No	19	0.9452	0.4943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-17	0.8851	0.4843	5	No	19	0.6847	0.3422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-18	1.085	0.5517	5	No	19	0.8578	0.5222	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-19	1.173	0.6631	5	No	19	0.9182	0.4356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-20	1.461	0.9248	5	No	19	1.193	0.458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-21	0.9066	0.5258	5	No	18	0.7162	0.3147	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-22	2.954	1.955	5	No	19	2.455	0.8534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-23	1.931	1.126	5	No	19	1.528	0.6878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-24	3.22	2.209	5	No	19	2.715	0.8635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-25	0.9545	0.5019	5	No	19	0.7282	0.3865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-30	2.315	1.219	5	No	18	1.767	0.906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-31	1.968	1.035	5	No	8	1.501	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-32	2.405	1.265	5	No	8	1.835	0.5378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-34D	3.104	1.326	5	No	8	2.215	0.8384	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-35D	3.414	1.723	5	No	8	2.569	0.7977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-36D	2.651	1.431	5	No	8	2.041	0.5753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-37D	3.797	1.739	5	No	5	2.768	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-38D	5.91	3.34	5	No	5	4.916	1.349	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BGWC-39	2.195	0.2017	5	No	5	1.198	0.5947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-40	1.354	0.2759	5	No	5	0.8148	0.3216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-7	1.729	1.223	5	No	19	1.476	0.432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-8	0.8464	0.3841	5	No	19	0.6152	0.3948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-9	1.074	0.4736	5	No	18	0.8216	0.5643	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWA-6	0.12	0.06	4	No	17	0.08647	0.02805	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-10	0.1194	0.05452	4	No	20	0.1133	0.07275	35	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-12	0.1093	0.03989	4	No	20	0.1056	0.06623	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-14A	0.1	0.055	4	No	10	0.0833	0.02182	60	Kaplan-Meier	No	0.011	NP (NDs)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-16	0.1726	0.06212	4	No	20	0.143	0.1185	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-17	0.2304	0.1207	4	No	20	0.1996	0.1466	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-18	0.14	0.06	4	No	20	0.1312	0.1047	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-19	0.11	0.07	4	No	20	0.1212	0.1191	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-20	0.13	0.06	4	No	20	0.1238	0.1416	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-21	0.1	0.066	4	No	19	0.082	0.02731	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-22	0.4654	0.254	4	No	21	0.4086	0.304	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-23	0.12	0.066	4	No	20	0.1874	0.2304	15	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-24	0.9095	0.1481	4	No	20	0.9855	1.156	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-25	0.09695	0.05548	4	No	20	0.09325	0.03155	45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-30	0.3164	0.1097	4	No	20	0.2391	0.2139	15	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-32	0.66	0.13	4	No	10	0.3897	0.3932	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	BGWC-34D	0.1	0.035	4	No	8	0.09188	0.02298	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BGWC-35D	0.91	0.11	4	No	8	0.2625	0.2659	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-36D	0.44	0.1	4	No	8	0.1775	0.1177	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-37D	0.585	0.179	4	No	5	0.382	0.1211	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-38D	0.7759	0.4361	4	No	5	0.606	0.1014	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-39	0.1361	0.04475	4	No	6	0.09433	0.03542	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-40	0.1078	0.03715	4	No	6	0.092	0.02668	50	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-41D	0.1084	0.06761	4	No	4	0.091	0.0108	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-42D	0.8149	0.2451	4	No	5	0.53	0.17	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-43D	1.031	0.7606	4	No	5	0.896	0.08081	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-44D	0.1811	0.05185	4	No	4	0.112	0.0325	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-7	0.1855	0.1192	4	No	20	0.1524	0.05831	5	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-8	0.1	0.061	4	No	20	0.07905	0.03141	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-9	0.2321	0.1066	4	No	19	0.1971	0.1497	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BGWA-6	0.001	0.00007	0.0024	No	15	0.0007567	0.0004182	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-10	0.001	0.00019	0.0024	No	17	0.0009018	0.0002774	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-12	0.001	0.0001	0.0024	No	17	0.0006263	0.0004267	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-14A	0.001	0.000062	0.0024	No	10	0.0006301	0.0004777	60	None	No	0.011	NP (NDs)
Lead (mg/L)	BGWC-16	0.001	0.00013	0.0024	No	17	0.0006076	0.0004325	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-17	0.001	0.000079	0.0024	No	17	0.0009458	0.0002234	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-18	0.001	0.0001	0.0024	No	17	0.0006336	0.0004521	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-19	0.001	0.0006	0.0024	No	17	0.0009199	0.000247	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-20	0.001	0.0001	0.0024	No	17	0.0008931	0.0003017	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-21	0.001	0.00006	0.0024	No	16	0.0005928	0.000477	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-22	0.001	0.00014	0.0024	No	17	0.0007468	0.0004083	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-23	0.001	0.00031	0.0024	No	17	0.0009088	0.0002591	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-24	0.001	0.000071	0.0024	No	17	0.0007016	0.0004333	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-25	0.001	0.00013	0.0024	No	17	0.0006485	0.00041	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-30	0.001	0.00015	0.0024	No	17	0.0005171	0.0004217	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	BGWC-31	0.0009994	0.00007664	0.0024	No	7	0.000538	0.0003884	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-32	0.001	0.000072	0.0024	No	7	0.0007403	0.0004437	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-34D	0.001	0.000054	0.0024	No	7	0.0008649	0.0003576	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-35D	0.000644	0.00005196	0.0024	No	7	0.0003156	0.0003174	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	BGWC-36D	0.0008082	0.00002608	0.0024	No	7	0.0004171	0.0003292	14.29	None	No	0.01	Param.
Lead (mg/L)	BGWC-37D	0.0002888	0.00003785	0.0024	No	5	0.000311	0.0003952	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BGWC-38D	0.0002827	0.0001508	0.0024	No	5	0.000526	0.0004339	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	BGWC-39	0.001	0.0001	0.0024	No	5	0.00082	0.0004025	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	BGWC-40	0.0002427	0.0001053	0.0024	No	5	0.000174	0.00004099	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-8	0.001	0.0003	0.0024	No	17	0.0008053	0.0003638	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-9	0.001	0.000075	0.0024	No	16	0.0005168	0.0004521	43.75	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWA-6	0.03	0.00082	0.03	No	16	0.02818	0.007295	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-10	0.03	0.0011	0.03	No	19	0.01063	0.01358	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-12	0.03	0.001	0.03	No	19	0.01779	0.01471	57.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-14A	0.03	0.00091	0.03	No	10	0.01836	0.01502	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	BGWC-16	0.03	0.00049	0.03	No	19	0.02845	0.00677	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-17	0.03	0.00069	0.03	No	19	0.02846	0.006724	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-20	0.02542	0.01743	0.03	No	19	0.02176	0.007278	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-22	0.034	0.0125	0.03	No	19	0.02271	0.01037	0	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BGWC-23	0.02195	0.01144	0.03	No	19	0.01847	0.01098	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BGWC-24	0.0082	0.0055	0.03	No	19	0.009116	0.007437	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-30	0.0192	0.0014	0.03	No	19	0.01086	0.009003	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-34D	0.03	0.00068	0.03	No	8	0.02271	0.0135	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	BGWC-35D	0.0161	0.007403	0.03	No	8	0.01175	0.004101	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-36D	0.03	0.001	0.03	No	8	0.005662	0.009893	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BGWC-37D	0.04535	-0.005831	0.03	No	5	0.01976	0.01527	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-38D	0.02239	0.006247	0.03	No	5	0.01432	0.004818	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-39	0.006576	0.00217	0.03	No	5	0.00416	0.001419	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-40	0.03	0.00079	0.03	No	5	0.0125	0.01598	40	None	No	0.031	NP (normality)
Lithium (mg/L)	BGWC-7	0.0097	0.0079	0.03	No	19	0.009737	0.005	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-8	0.03	0.001	0.03	No	19	0.02847	0.006653	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-9	0.03	0.0012	0.03	No	18	0.01251	0.01436	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	BGWA-6	0.0002	0.000084	0.002	No	15	0.0001923	0.00002995	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-10	0.0002	0.0001	0.002	No	17	0.0001852	0.00004284	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-12	0.0002	0.0001	0.002	No	17	0.0001858	0.00004086	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-16	0.0002	0.000098	0.002	No	17	0.000194	0.00002474	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-17	0.0002435	0.0001598	0.002	No	17	0.0002047	0.00007247	11.76	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	BGWC-18	0.0002	0.000079	0.002	No	17	0.0001929	0.00002935	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-19	0.0002	0.00008	0.002	No	17	0.0001841	0.00004515	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-20	0.0002	0.000066	0.002	No	17	0.0001921	0.0000325	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-22	0.0002	0.000092	0.002	No	17	0.0001844	0.00004505	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-23	0.0002	0.00005	0.002	No	17	0.000182	0.00005082	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-24	0.0007232	0.00008443	0.002	No	17	0.001142	0.001614	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	BGWC-25	0.0002	0.000047	0.002	No	17	0.000191	0.00003711	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-30	0.0002	0.00006	0.002	No	17	0.0001418	0.00006564	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-36D	0.0002	0.00018	0.002	No	7	0.0001971	0.00000755	5.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	BGWC-38D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	BGWC-7	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-8	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-9	0.0002	0.00008	0.002	No	16	0.0001925	0.00003	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWA-6	0.01	0.001	0.034	No	16	0.008829	0.003203	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-10	0.0037	0.0032	0.034	No	19	0.003679	0.000831	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-14A	0.01	0.0012	0.034	No	10	0.003474	0.003578	20	None	No	0.011	NP (normality)
Molybdenum (mg/L)	BGWC-19	0.01	0.00023	0.034	No	19	0.009486	0.002241	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-20	0.016	0.0125	0.034	No	19	0.01516	0.004259	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-21	0.01	0.0014	0.034	No	18	0.004289	0.003697	27.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.034	Yes	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-23	0.01305	0.012	0.034	No	19	0.01253	0.0008993	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-24	0.01	0.0013	0.034	No	19	0.005261	0.003956	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-25	0.01	0.0026	0.034	No	19	0.007024	0.003726	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-30	0.01572	0.007431	0.034	No	19	0.01157	0.007075	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-31	0.01	0.00033	0.034	No	8	0.008791	0.003419	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BGWC-32	0.0048	0.003	0.034	No	9	0.003478	0.0005761	0	None	No	0.002	NP (normality)
Molybdenum (mg/L)	BGWC-34D	0.01	0.00078	0.034	No	8	0.002247	0.003159	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BGWC-35D	0.03465	0.02512	0.034	No	9	0.02989	0.004936	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-36D	0.01442	0.006182	0.034	No	9	0.0103	0.004265	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-37D	0.03049	0.006725	0.034	No	6	0.01663	0.01179	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.034	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-39	0.01098	0.001135	0.034	No	5	0.00606	0.002939	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-40	0.001748	0.0006314	0.034	No	5	0.004658	0.004883	40	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-41D	0.01661	0.00789	0.034	No	4	0.01225	0.002217	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-42D	0.0241	-0.009495	0.034	No	5	0.01402	0.007811	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.034	Yes	5	0.164	0.04159	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-44D	0.008521	0.0008123	0.034	No	4	0.006	0.003161	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-7	0.0117	0.0099	0.034	No	19	0.01059	0.002696	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-8	0.00281	0.001171	0.034	No	19	0.004783	0.003854	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-9	0.003415	0.002708	0.034	No	18	0.003061	0.0005842	0	None	No	0.01	Param.
Selenium (mg/L)	BGWA-6	0.005	0.0032	0.05	No	15	0.004567	0.001266	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-12	0.005	0.0004	0.05	No	17	0.004729	0.001116	94.12	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	BGWC-14A	0.005	0.005	0.05	No	10	0.00464	0.001138	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BGWC-16	0.005	0.0017	0.05	No	17	0.003688	0.00169	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-17	0.005	0.0022	0.05	No	17	0.004098	0.00171	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-18	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-19	0.005	0.0013	0.05	No	17	0.004254	0.00167	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-20	0.005	0.0037	0.05	No	17	0.004924	0.0003153	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-21	0.005	0.001	0.05	No	16	0.004445	0.001525	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-22	0.012	0.0026	0.05	No	17	0.005082	0.002014	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-23	0.0176	0.002	0.05	No	17	0.005565	0.003185	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-24	0.00709	0.002798	0.05	No	17	0.006541	0.00644	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BGWC-30	0.0102	0.005525	0.05	No	17	0.007865	0.003734	11.76	None	No	0.01	Param.
Selenium (mg/L)	BGWC-31	0.005	0.00008	0.05	No	7	0.004297	0.00186	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-32	0.005	0.00015	0.05	No	7	0.004307	0.001833	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-34D	0.005	0.0001	0.05	No	7	0.0043	0.001852	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-36D	0.01335	0.003196	0.05	No	7	0.008271	0.004273	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-38D	0.005	0.003	0.05	No	5	0.0046	0.0008944	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-39	0.005	0.002	0.05	No	5	0.0038	0.001643	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-40	0.01185	0.0001122	0.05	No	5	0.00598	0.003502	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-8	0.005	0.00015	0.05	No	17	0.004423	0.001628	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-9	0.005	0.001	0.05	No	16	0.003519	0.002003	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWA-6	0.001	0.000061	0.002	No	16	0.0004816	0.0004729	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-12	0.001	0.00009	0.002	No	19	0.0007569	0.0004179	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-14A	0.0005285	0.0001855	0.002	No	10	0.000357	0.0001922	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-16	0.00024	0.0002	0.002	No	19	0.0002216	0.000035320	0	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-17	0.001	0.00008	0.002	No	19	0.0005295	0.0004608	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-18	0.001	0.000071	0.002	No	19	0.0008526	0.0003498	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-19	0.001	0.00008	0.002	No	19	0.0007087	0.0004406	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-20	0.001	0.0002	0.002	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-22	0.0007682	0.0005834	0.002	No	19	0.0006758	0.0001577	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-23	0.001	0.00018	0.002	No	19	0.0007395	0.0003707	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-24	0.0006804	0.0004312	0.002	No	19	0.0005558	0.0002128	10.53	None	No	0.01	Param.
Thallium (mg/L)	BGWC-30	0.0005088	0.0002194	0.002	No	19	0.0005829	0.0003072	15.79	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-32	0.00046	0.000084	0.002	No	8	0.0001793	0.0001163	0	None	No	0.004	NP (normality)
Thallium (mg/L)	BGWC-34D	0.001	0.000089	0.002	No	8	0.0008861	0.0003221	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-35D	0.001	0.000068	0.002	No	8	0.0007785	0.0004109	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-36D	0.0002942	0.0001233	0.002	No	8	0.0002088	0.000080610	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-38D	0.002393	-0.0009636	0.002	No	5	0.0008712	0.001085	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-39	0.0002624	0.0001096	0.002	No	5	0.000186	0.000045610	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-40	0.001	0.00014	0.002	No	5	0.000828	0.0003846	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	BGWC-7	0.001	0.00011	0.002	No	19	0.0007638	0.0004062	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-9	0.001	0.00022	0.002	No	18	0.0008592	0.0003252	83.33	None	No	0.01	NP (NDs)

Federal Confidence Intervals - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.006	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.1	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BGWC-10	0.003	0.0022	0.006	No	15	0.002947	0.0002066	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-14A	0.003	0.00061	0.006	No	10	0.002491	0.001076	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	BGWC-16	0.003	0.0004	0.006	No	15	0.002827	0.0006713	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-17	0.003	0.0002	0.006	No	15	0.002813	0.000723	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-19	0.003	0.0005	0.006	No	15	0.002833	0.0006455	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-20	0.003	0.0014	0.006	No	15	0.002727	0.0007411	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-22	0.003	0.0023	0.006	No	15	0.002712	0.0007297	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-23	0.003	0.0009	0.006	No	15	0.002516	0.001008	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-24	0.003	0.00048	0.006	No	15	0.002656	0.0009081	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-25	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-31	0.003	0.00038	0.006	No	5	0.002476	0.001172	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-32	0.003	0.00036	0.006	No	5	0.00195	0.001438	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-34D	0.003	0.00049	0.006	No	5	0.002056	0.001297	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-35D	0.003	0.00064	0.006	No	5	0.00206	0.001287	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-36D	0.003	0.00096	0.006	No	5	0.002592	0.0009123	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-37D	0.003	0.00041	0.006	No	5	0.002322	0.001124	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-38D	0.001767	-0.00008674	0.006	No	5	0.001704	0.001276	40	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	BGWC-40	0.003	0.0005	0.006	No	5	0.0025	0.001118	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-7	0.003	0.0015	0.006	No	15	0.00246	0.0009775	73.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-8	0.003	0.00059	0.006	No	15	0.002497	0.001043	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-9	0.003	0.00075	0.006	No	14	0.002459	0.001079	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWA-6	0.005	0.00095	0.01	No	16	0.003279	0.002039	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-10	0.007178	0.005528	0.01	No	19	0.006353	0.001409	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-12	0.005	0.0006	0.01	No	19	0.002439	0.00205	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-14A	0.005	0.0011	0.01	No	10	0.00391	0.001774	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BGWC-16	0.005	0.00073	0.01	No	19	0.00301	0.002168	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-17	0.005	0.0008	0.01	No	19	0.003489	0.00205	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-18	0.005	0.00066	0.01	No	19	0.003437	0.002119	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-19	0.005	0.00067	0.01	No	19	0.002977	0.002204	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-20	0.005	0.0011	0.01	No	19	0.002701	0.001853	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-21	0.005	0.00079	0.01	No	18	0.0028	0.00206	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-22	0.003232	0.001821	0.01	No	19	0.002526	0.001205	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-23	0.003132	0.001656	0.01	No	19	0.002394	0.001261	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-24	0.006324	0.00317	0.01	No	19	0.004747	0.002693	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-25	0.003101	0.002067	0.01	No	19	0.002584	0.0008827	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-30	0.005	0.00064	0.01	No	19	0.002591	0.001908	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-31	0.005226	0.003449	0.01	No	8	0.004338	0.0008383	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-32	0.003242	0.000653	0.01	No	8	0.001891	0.001499	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-35D	0.003125	0.0009896	0.01	No	8	0.002058	0.001007	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-36D	0.001503	0.0004669	0.01	No	8	0.002489	0.002139	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	BGWC-37D	0.04467	0.008529	0.01	No	5	0.0266	0.01078	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-38D	0.005353	0.0005847	0.01	No	5	0.00254	0.001641	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-39	0.005	0.00055	0.01	No	5	0.00363	0.002011	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BGWC-40	0.002628	-0.0002748	0.01	No	5	0.002706	0.002224	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BGWC-7	0.003055	0.001912	0.01	No	19	0.002542	0.001048	10.53	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-8	0.005	0.00047	0.01	No	19	0.002293	0.002138	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-9	0.00319	0.00211	0.01	No	18	0.00265	0.0008926	5.556	None	No	0.01	Param.
Barium (mg/L)	BGWA-6	0.0144	0.0114	2	No	16	0.01484	0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-10	0.06063	0.04703	2	No	19	0.05421	0.01226	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-12	0.03516	0.0294	2	No	19	0.03228	0.004913	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-14A	0.04321	0.03319	2	No	10	0.0382	0.005613	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-16	0.03012	0.02712	2	No	19	0.02867	0.002664	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BGWC-17	0.01905	0.01588	2	No	19	0.01746	0.00271	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-18	0.03567	0.03023	2	No	19	0.03305	0.004747	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-19	0.03866	0.03092	2	No	19	0.03479	0.006612	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-20	0.03406	0.03046	2	No	19	0.03226	0.003075	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-21	0.04545	0.03429	2	No	18	0.03987	0.00922	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-22	0.09254	0.08314	2	No	19	0.08756	0.008615	0	None	x^2	0.01	Param.
Barium (mg/L)	BGWC-23	0.11	0.084	2	No	19	0.09761	0.01497	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	BGWC-24	0.1141	0.0845	2	No	19	0.09929	0.02527	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-25	0.02585	0.01824	2	No	19	0.02266	0.006985	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-30	0.192	0.074	2	No	19	0.1266	0.06091	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-31	0.055	0.032	2	No	8	0.03925	0.007046	0	None	No	0.004	NP (normality)
Barium (mg/L)	BGWC-32	0.1335	0.08823	2	No	8	0.1109	0.02136	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-34D	0.04844	0.03331	2	No	8	0.04088	0.00714	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-35D	0.11	0.06774	2	No	8	0.08888	0.01994	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-36D	0.09071	0.0615	2	No	8	0.07588	0.01541	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-37D	0.1207	0.07892	2	No	5	0.0998	0.01246	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-38D	0.2664	0.04482	2	No	5	0.1556	0.06611	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-39	0.09667	0.02733	2	No	5	0.062	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-40	0.06504	0.03936	2	No	5	0.0522	0.007662	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-7	0.04002	0.03429	2	No	19	0.03716	0.004895	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-8	0.03085	0.02684	2	No	19	0.02804	0.006046	0	None	x^3	0.01	Param.
Barium (mg/L)	BGWC-9	0.03239	0.02767	2	No	18	0.03003	0.003898	0	None	No	0.01	Param.
Beryllium (mg/L)	BGWC-12	0.0005	0.000076	0.004	No	17	0.0004484	0.0001459	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-16	0.0005	0.00011	0.004	No	17	0.0003147	0.0002034	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-17	0.0005	0.000065	0.004	No	17	0.0004482	0.0001463	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-18	0.0005	0.000076	0.004	No	17	0.0003504	0.0002091	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-19	0.0005	0.00008	0.004	No	17	0.0003732	0.0002026	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-22	0.0005	0.000099	0.004	No	17	0.0003134	0.0002045	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-23	0.0005	0.000054	0.004	No	17	0.0004738	0.0001082	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-24	0.0005	0.00013	0.004	No	17	0.0003884	0.0001791	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-36D	0.0005	0.00007	0.004	No	7	0.0004386	0.0001625	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	BGWC-38D	0.0005	0.00006	0.004	No	5	0.0003296	0.0002335	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	BGWC-39	0.0005	0.000079	0.004	No	5	0.0004158	0.0001883	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-14A	0.0005	0.00016	0.005	No	10	0.000335	0.0001745	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	BGWC-16	0.0017	0.0011	0.005	No	19	0.001416	0.0002911	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-17	0.0005	0.00015	0.005	No	19	0.0003179	0.0001814	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-18	0.0004049	0.0001676	0.005	No	19	0.0004133	0.0001907	42.11	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BGWC-19	0.0005	0.0002	0.005	No	19	0.0004421	0.0001387	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-20	0.0005	0.00008	0.005	No	19	0.0004779	0.00009635	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-22	0.0005	0.00038	0.005	No	19	0.0004495	0.000111	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-23	0.0005	0.00019	0.005	No	19	0.0004837	0.00007112	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-24	0.00611	0.003177	0.005	No	19	0.004643	0.002504	0	None	No	0.01	Param.
Cadmium (mg/L)	BGWC-30	0.0005	0.0003	0.005	No	19	0.0004042	0.000142	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-38D	0.00081	0.00032	0.005	No	5	0.000526	0.0001769	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-39	0.0002183	0.0001329	0.005	No	5	0.000304	0.0001802	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	BGWA-6	0.005	0.0044	0.1	No	15	0.004727	0.0009059	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-10	0.005	0.0011	0.1	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-12	0.005	0.00058	0.1	No	17	0.003684	0.002104	70.59	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-14A	0.005	0.005	0.1	No	10	0.0071	0.006641	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	BGWC-16	0.005	0.0019	0.1	No	17	0.004565	0.001245	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-17	0.005	0.00044	0.1	No	17	0.004461	0.001523	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-18	0.005	0.0011	0.1	No	17	0.004248	0.001679	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-20	0.005	0.00096	0.1	No	17	0.003496	0.001892	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-21	0.005	0.0025	0.1	No	16	0.004557	0.00127	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-23	0.005	0.0033	0.1	No	17	0.004194	0.001608	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-24	0.005	0.0009	0.1	No	17	0.004235	0.001706	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-25	0.005	0.0021	0.1	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-30	0.005	0.00073	0.1	No	17	0.002054	0.001972	29.41	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-31	0.005	0.00056	0.1	No	7	0.003186	0.002269	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-32	0.005	0.00057	0.1	No	7	0.002587	0.002266	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-35D	0.005	0.00067	0.1	No	7	0.003213	0.002233	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-36D	0.005	0.00057	0.1	No	7	0.002534	0.002311	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-37D	0.005	0.00068	0.1	No	5	0.003272	0.002366	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-38D	0.005	0.00042	0.1	No	5	0.003704	0.002012	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-39	0.005	0.001	0.1	No	5	0.0042	0.001789	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-40	0.005	0.00043	0.1	No	5	0.001528	0.001948	20	None	No	0.031	NP (normality)
Chromium (mg/L)	BGWC-7	0.005	0.00095	0.1	No	17	0.004242	0.00169	82.35	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BGWC-8	0.005	0.001	0.1	No	17	0.00593	0.01482	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-9	0.005	0.002	0.1	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWA-6	0.005	0.00042	0.006	No	16	0.003336	0.002226	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-10	0.005	0.00056	0.006	No	19	0.004035	0.001921	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-12	0.005	0.00035	0.006	No	19	0.00284	0.002341	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-14A	0.001787	0.0007838	0.006	No	10	0.002481	0.001794	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BGWC-16	0.0089	0.0045	0.006	No	19	0.0062	0.002046	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-17	0.005	0.00015	0.006	No	19	0.004745	0.001113	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-18	0.005	0.00071	0.006	No	19	0.003833	0.002011	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-19	0.005	0.000072	0.006	No	19	0.004741	0.001131	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-20	0.005	0.0008	0.006	No	19	0.004284	0.001701	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-21	0.005	0.00041	0.006	No	18	0.002822	0.002252	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.006	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-23	0.005	0.00046	0.006	No	19	0.003617	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-24	0.004365	0.003046	0.006	No	19	0.003705	0.001126	10.53	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-25	0.005	0.0006	0.006	No	19	0.004517	0.001449	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-30	0.005	0.0008	0.006	No	19	0.003006	0.002167	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-31	0.005	0.00031	0.006	No	8	0.001605	0.0021	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-32	0.009157	0.002953	0.006	No	10	0.006055	0.003477	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-34D	0.005	0.00039	0.006	No	8	0.001714	0.002044	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-35D	0.002784	0.0005469	0.006	No	8	0.001622	0.00143	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BGWC-36D	0.005	0.00038	0.006	No	8	0.001752	0.002018	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-37D	0.002024	0.0004958	0.006	No	5	0.00126	0.0004561	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-38D	0.01423	-0.003147	0.006	No	5	0.00554	0.005184	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-39	0.005	0.00047	0.006	No	6	0.00323	0.002186	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	BGWC-40	0.0006256	0.0004184	0.006	No	5	0.000522	0.000061810		None	No	0.01	Param.
Cobalt (mg/L)	BGWC-7	0.00094	0.00067	0.006	No	19	0.001645	0.001783	21.05	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-8	0.005	0.0012	0.006	No	19	0.004036	0.00193	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-9	0.005	0.0006	0.006	No	18	0.00423	0.001773	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BGWA-6	0.6779	0.2858	5	No	16	0.5072	0.334	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-10	1.496	0.9507	5	No	19	1.25	0.5107	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-12	0.7903	0.342	5	No	19	0.5662	0.3828	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-14A	1.516	0.5886	5	No	10	1.052	0.5195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-16	1.235	0.6558	5	No	19	0.9452	0.4943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-17	0.8851	0.4843	5	No	19	0.6847	0.3422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-18	1.085	0.5517	5	No	19	0.8578	0.5222	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-19	1.173	0.6631	5	No	19	0.9182	0.4356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-20	1.461	0.9248	5	No	19	1.193	0.458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-21	0.9066	0.5258	5	No	18	0.7162	0.3147	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-22	2.954	1.955	5	No	19	2.455	0.8534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-23	1.931	1.126	5	No	19	1.528	0.6878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-24	3.22	2.209	5	No	19	2.715	0.8635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-25	0.9545	0.5019	5	No	19	0.7282	0.3865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-30	2.315	1.219	5	No	18	1.767	0.906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-31	1.968	1.035	5	No	8	1.501	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-32	2.405	1.265	5	No	8	1.835	0.5378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-34D	3.104	1.326	5	No	8	2.215	0.8384	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-35D	3.414	1.723	5	No	8	2.569	0.7977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-36D	2.651	1.431	5	No	8	2.041	0.5753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-37D	3.797	1.739	5	No	5	2.768	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-38D	5.91	3.34	5	No	5	4.916	1.349	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BGWC-39	2.195	0.2017	5	No	5	1.198	0.5947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-40	1.354	0.2759	5	No	5	0.8148	0.3216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-7	1.729	1.223	5	No	19	1.476	0.432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-8	0.8464	0.3841	5	No	19	0.6152	0.3948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-9	1.074	0.4736	5	No	18	0.8216	0.5643	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWA-6	0.12	0.06	4	No	17	0.08647	0.02805	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-10	0.1194	0.05452	4	No	20	0.1133	0.07275	35	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-12	0.1093	0.03989	4	No	20	0.1056	0.06623	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-14A	0.1	0.055	4	No	10	0.0833	0.02182	60	Kaplan-Meier	No	0.011	NP (NDs)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-16	0.1726	0.06212	4	No	20	0.143	0.1185	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-17	0.2304	0.1207	4	No	20	0.1996	0.1466	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-18	0.14	0.06	4	No	20	0.1312	0.1047	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-19	0.11	0.07	4	No	20	0.1212	0.1191	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-20	0.13	0.06	4	No	20	0.1238	0.1416	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-21	0.1	0.066	4	No	19	0.082	0.02731	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-22	0.4654	0.254	4	No	21	0.4086	0.304	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-23	0.12	0.066	4	No	20	0.1874	0.2304	15	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-24	0.9095	0.1481	4	No	20	0.9855	1.156	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-25	0.09695	0.05548	4	No	20	0.09325	0.03155	45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-30	0.3164	0.1097	4	No	20	0.2391	0.2139	15	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-32	0.66	0.13	4	No	10	0.3897	0.3932	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	BGWC-34D	0.1	0.035	4	No	8	0.09188	0.02298	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BGWC-35D	0.91	0.11	4	No	8	0.2625	0.2659	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-36D	0.44	0.1	4	No	8	0.1775	0.1177	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-37D	0.585	0.179	4	No	5	0.382	0.1211	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-38D	0.7759	0.4361	4	No	5	0.606	0.1014	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-39	0.1361	0.04475	4	No	6	0.09433	0.03542	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-40	0.1078	0.03715	4	No	6	0.092	0.02668	50	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-41D	0.1084	0.06761	4	No	4	0.091	0.0108	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-42D	0.8149	0.2451	4	No	5	0.53	0.17	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-43D	1.031	0.7606	4	No	5	0.896	0.08081	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-44D	0.1811	0.05185	4	No	4	0.112	0.0325	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-7	0.1855	0.1192	4	No	20	0.1524	0.05831	5	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-8	0.1	0.061	4	No	20	0.07905	0.03141	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-9	0.2321	0.1066	4	No	19	0.1971	0.1497	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BGWA-6	0.001	0.00007	0.015	No	15	0.0007567	0.0004182	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-10	0.001	0.00019	0.015	No	17	0.0009018	0.0002774	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-12	0.001	0.0001	0.015	No	17	0.0006263	0.0004267	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-14A	0.001	0.000062	0.015	No	10	0.0006301	0.0004777	60	None	No	0.011	NP (NDs)
Lead (mg/L)	BGWC-16	0.001	0.00013	0.015	No	17	0.0006076	0.0004325	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-17	0.001	0.000079	0.015	No	17	0.0009458	0.0002234	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-18	0.001	0.0001	0.015	No	17	0.0006336	0.0004521	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-19	0.001	0.0006	0.015	No	17	0.0009199	0.000247	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-20	0.001	0.0001	0.015	No	17	0.0008931	0.0003017	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-21	0.001	0.00006	0.015	No	16	0.0005928	0.000477	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-22	0.001	0.00014	0.015	No	17	0.0007468	0.0004083	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-23	0.001	0.00031	0.015	No	17	0.0009088	0.0002591	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-24	0.001	0.000071	0.015	No	17	0.0007016	0.0004333	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-25	0.001	0.00013	0.015	No	17	0.0006485	0.00041	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-30	0.001	0.00015	0.015	No	17	0.0005171	0.0004217	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	BGWC-31	0.0009994	0.00007664	0.015	No	7	0.000538	0.0003884	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-32	0.001	0.000072	0.015	No	7	0.0007403	0.0004437	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-34D	0.001	0.000054	0.015	No	7	0.0008649	0.0003576	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-35D	0.000644	0.00005196	0.015	No	7	0.0003156	0.0003174	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	BGWC-36D	0.0008082	0.00002608	0.015	No	7	0.0004171	0.0003292	14.29	None	No	0.01	Param.
Lead (mg/L)	BGWC-37D	0.0002888	0.00003785	0.015	No	5	0.000311	0.0003952	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BGWC-38D	0.0002827	0.0001508	0.015	No	5	0.000526	0.0004339	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	BGWC-39	0.001	0.0001	0.015	No	5	0.00082	0.0004025	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	BGWC-40	0.0002427	0.0001053	0.015	No	5	0.000174	0.00004099	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-8	0.001	0.0003	0.015	No	17	0.0008053	0.0003638	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-9	0.001	0.000075	0.015	No	16	0.0005168	0.0004521	43.75	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWA-6	0.03	0.00082	0.04	No	16	0.02818	0.007295	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-10	0.03	0.0011	0.04	No	19	0.01063	0.01358	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-12	0.03	0.001	0.04	No	19	0.01779	0.01471	57.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-14A	0.03	0.00091	0.04	No	10	0.01836	0.01502	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	BGWC-16	0.03	0.00049	0.04	No	19	0.02845	0.00677	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-17	0.03	0.00069	0.04	No	19	0.02846	0.006724	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-20	0.02542	0.01743	0.04	No	19	0.02176	0.007278	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-22	0.034	0.0125	0.04	No	19	0.02271	0.01037	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BGWC-23	0.02195	0.01144	0.04	No	19	0.01847	0.01098	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BGWC-24	0.0082	0.0055	0.04	No	19	0.009116	0.007437	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-30	0.0192	0.0014	0.04	No	19	0.01086	0.009003	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-34D	0.03	0.00068	0.04	No	8	0.02271	0.0135	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	BGWC-35D	0.0161	0.007403	0.04	No	8	0.01175	0.004101	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-36D	0.03	0.001	0.04	No	8	0.005662	0.009893	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BGWC-37D	0.04535	-0.005831	0.04	No	5	0.01976	0.01527	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-38D	0.02239	0.006247	0.04	No	5	0.01432	0.004818	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-39	0.006576	0.00217	0.04	No	5	0.00416	0.001419	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-40	0.03	0.00079	0.04	No	5	0.0125	0.01598	40	None	No	0.031	NP (normality)
Lithium (mg/L)	BGWC-7	0.0097	0.0079	0.04	No	19	0.009737	0.005	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-8	0.03	0.001	0.04	No	19	0.02847	0.006653	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-9	0.03	0.0012	0.04	No	18	0.01251	0.01436	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	BGWA-6	0.0002	0.000084	0.002	No	15	0.0001923	0.00002995	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-10	0.0002	0.0001	0.002	No	17	0.0001852	0.00004284	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-12	0.0002	0.0001	0.002	No	17	0.0001858	0.00004086	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-16	0.0002	0.000098	0.002	No	17	0.000194	0.00002474	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-17	0.0002435	0.0001598	0.002	No	17	0.0002047	0.00007247	11.76	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	BGWC-18	0.0002	0.000079	0.002	No	17	0.0001929	0.00002935	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-19	0.0002	0.00008	0.002	No	17	0.0001841	0.00004515	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-20	0.0002	0.000066	0.002	No	17	0.0001921	0.0000325	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-22	0.0002	0.000092	0.002	No	17	0.0001844	0.00004505	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-23	0.0002	0.00005	0.002	No	17	0.000182	0.00005082	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-24	0.0007232	0.00008443	0.002	No	17	0.001142	0.001614	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	BGWC-25	0.0002	0.000047	0.002	No	17	0.000191	0.00003711	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-30	0.0002	0.00006	0.002	No	17	0.0001418	0.00006564	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-36D	0.0002	0.00018	0.002	No	7	0.0001971	0.00000755	5.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	BGWC-38D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	BGWC-7	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-8	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-9	0.0002	0.00008	0.002	No	16	0.0001925	0.00003	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWA-6	0.01	0.001	0.1	No	16	0.008829	0.003203	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-10	0.0037	0.0032	0.1	No	19	0.003679	0.000831	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-14A	0.01	0.0012	0.1	No	10	0.003474	0.003578	20	None	No	0.011	NP (normality)
Molybdenum (mg/L)	BGWC-19	0.01	0.00023	0.1	No	19	0.009486	0.002241	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-20	0.016	0.0125	0.1	No	19	0.01516	0.004259	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-21	0.01	0.0014	0.1	No	18	0.004289	0.003697	27.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.1	No	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-23	0.01305	0.012	0.1	No	19	0.01253	0.0008993	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-24	0.01	0.0013	0.1	No	19	0.005261	0.003956	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-25	0.01	0.0026	0.1	No	19	0.007024	0.003726	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-30	0.01572	0.007431	0.1	No	19	0.01157	0.007075	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-31	0.01	0.00033	0.1	No	8	0.008791	0.003419	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BGWC-32	0.0048	0.003	0.1	No	9	0.003478	0.0005761	0	None	No	0.002	NP (normality)
Molybdenum (mg/L)	BGWC-34D	0.01	0.00078	0.1	No	8	0.002247	0.003159	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BGWC-35D	0.03465	0.02512	0.1	No	9	0.02989	0.004936	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-36D	0.01442	0.006182	0.1	No	9	0.0103	0.004265	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-37D	0.03049	0.006725	0.1	No	6	0.01663	0.01179	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.1	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-39	0.01098	0.001135	0.1	No	5	0.00606	0.002939	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-40	0.001748	0.0006314	0.1	No	5	0.004658	0.004883	40	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-41D	0.01661	0.00789	0.1	No	4	0.01225	0.002217	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-42D	0.0241	-0.009495	0.1	No	5	0.01402	0.007811	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.1	No	5	0.164	0.04159	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-44D	0.008521	0.0008123	0.1	No	4	0.006	0.003161	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-7	0.0117	0.0099	0.1	No	19	0.01059	0.002696	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-8	0.00281	0.001171	0.1	No	19	0.004783	0.003854	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-9	0.003415	0.002708	0.1	No	18	0.003061	0.0005842	0	None	No	0.01	Param.
Selenium (mg/L)	BGWA-6	0.005	0.0032	0.05	No	15	0.004567	0.001266	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-12	0.005	0.0004	0.05	No	17	0.004729	0.001116	94.12	None	No	0.01	NP (NDs)

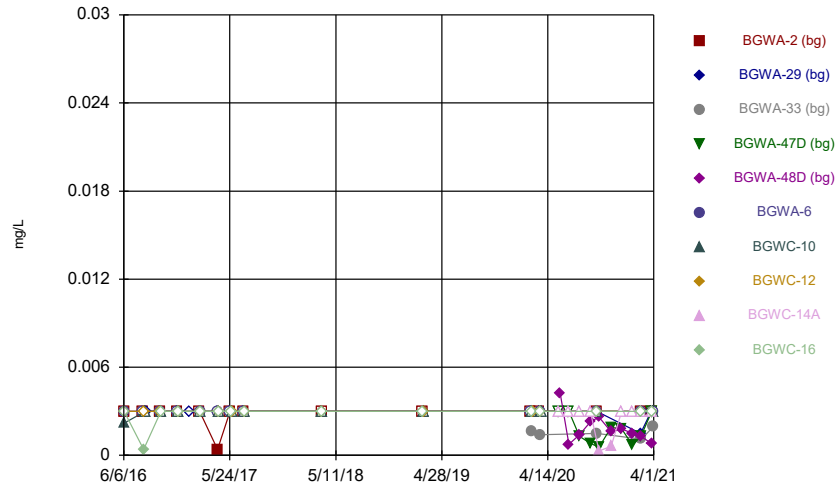
Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	BGWC-14A	0.005	0.005	0.05	No	10	0.00464	0.001138	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BGWC-16	0.005	0.0017	0.05	No	17	0.003688	0.00169	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-17	0.005	0.0022	0.05	No	17	0.004098	0.00171	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-18	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-19	0.005	0.0013	0.05	No	17	0.004254	0.00167	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-20	0.005	0.0037	0.05	No	17	0.004924	0.0003153	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-21	0.005	0.001	0.05	No	16	0.004445	0.001525	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-22	0.012	0.0026	0.05	No	17	0.005082	0.002014	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-23	0.0176	0.002	0.05	No	17	0.005565	0.003185	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-24	0.00709	0.002798	0.05	No	17	0.006541	0.00644	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BGWC-30	0.0102	0.005525	0.05	No	17	0.007865	0.003734	11.76	None	No	0.01	Param.
Selenium (mg/L)	BGWC-31	0.005	0.00008	0.05	No	7	0.004297	0.00186	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-32	0.005	0.00015	0.05	No	7	0.004307	0.001833	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-34D	0.005	0.0001	0.05	No	7	0.0043	0.001852	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-36D	0.01335	0.003196	0.05	No	7	0.008271	0.004273	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-38D	0.005	0.003	0.05	No	5	0.0046	0.0008944	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-39	0.005	0.002	0.05	No	5	0.0038	0.001643	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-40	0.01185	0.0001122	0.05	No	5	0.00598	0.003502	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-8	0.005	0.00015	0.05	No	17	0.004423	0.001628	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-9	0.005	0.001	0.05	No	16	0.003519	0.002003	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWA-6	0.001	0.000061	0.002	No	16	0.0004816	0.0004729	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-12	0.001	0.00009	0.002	No	19	0.0007569	0.0004179	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-14A	0.0005285	0.0001855	0.002	No	10	0.000357	0.0001922	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-16	0.00024	0.0002	0.002	No	19	0.0002216	0.00003532	0	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-17	0.001	0.00008	0.002	No	19	0.0005295	0.0004608	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-18	0.001	0.000071	0.002	No	19	0.0008526	0.0003498	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-19	0.001	0.00008	0.002	No	19	0.0007087	0.0004406	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-20	0.001	0.0002	0.002	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-22	0.0007682	0.0005834	0.002	No	19	0.0006758	0.0001577	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-23	0.001	0.00018	0.002	No	19	0.0007395	0.0003707	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-24	0.0006804	0.0004312	0.002	No	19	0.0005558	0.0002128	10.53	None	No	0.01	Param.
Thallium (mg/L)	BGWC-30	0.0005088	0.0002194	0.002	No	19	0.0005829	0.0003072	15.79	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-32	0.00046	0.000084	0.002	No	8	0.0001793	0.0001163	0	None	No	0.004	NP (normality)
Thallium (mg/L)	BGWC-34D	0.001	0.000089	0.002	No	8	0.0008861	0.0003221	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-35D	0.001	0.000068	0.002	No	8	0.0007785	0.0004109	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-36D	0.0002942	0.0001233	0.002	No	8	0.0002088	0.00008061	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-38D	0.002393	-0.0009636	0.002	No	5	0.0008712	0.001085	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-39	0.0002624	0.0001096	0.002	No	5	0.000186	0.00004561	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-40	0.001	0.00014	0.002	No	5	0.000828	0.0003846	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	BGWC-7	0.001	0.00011	0.002	No	19	0.0007638	0.0004062	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-9	0.001	0.00022	0.002	No	18	0.0008592	0.0003252	83.33	None	No	0.01	NP (NDs)

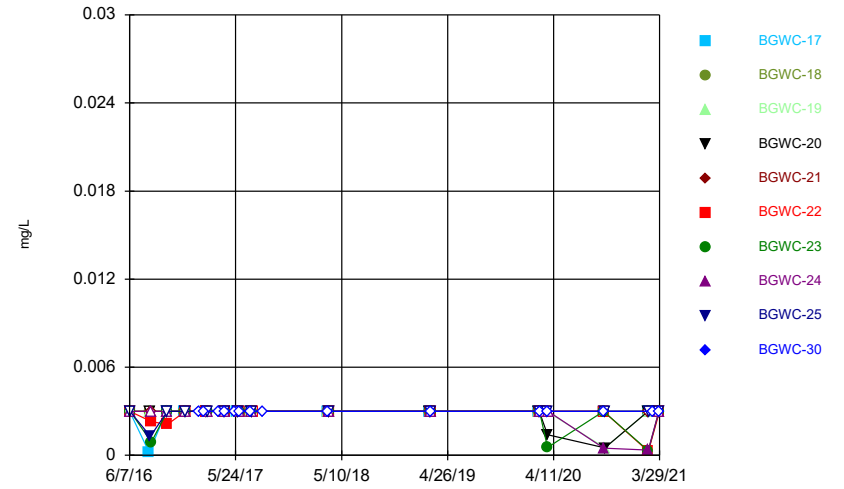
FIGURE A.

Time Series



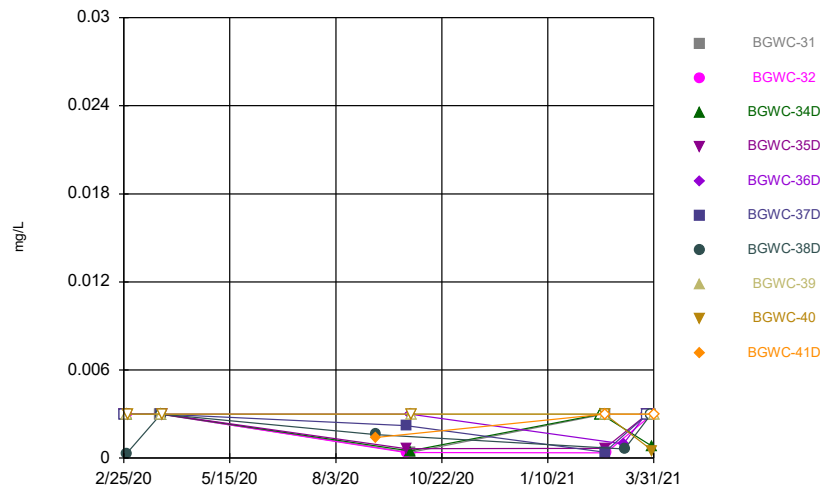
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



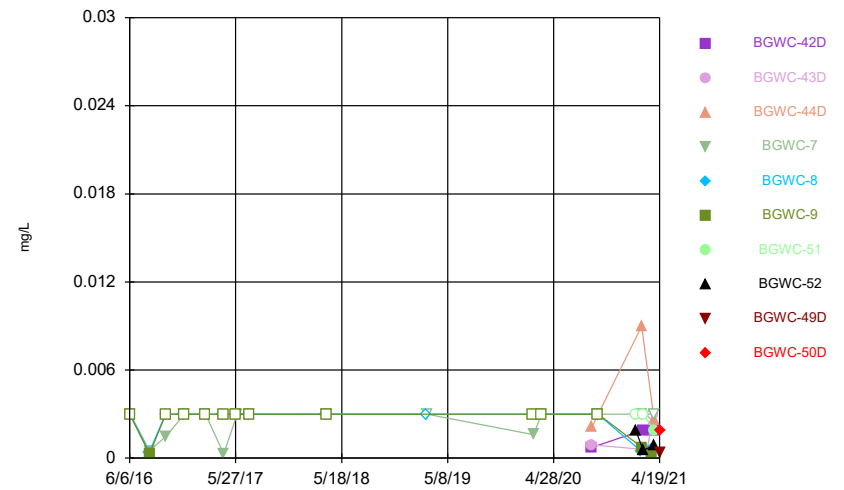
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



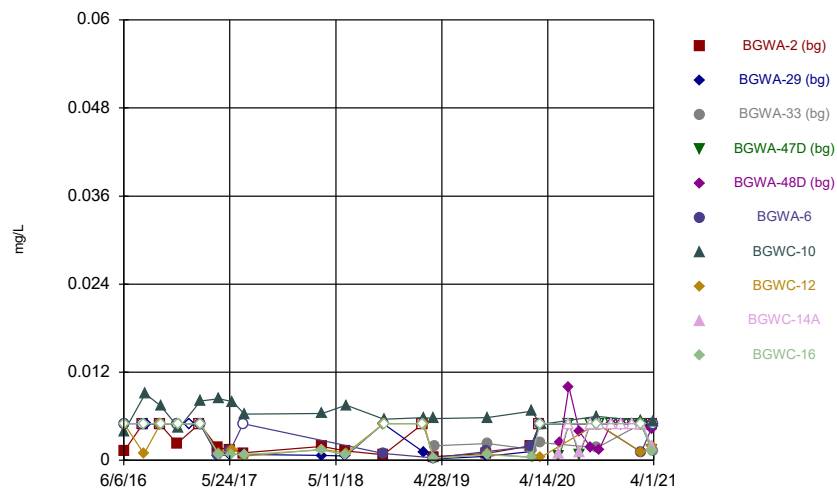
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



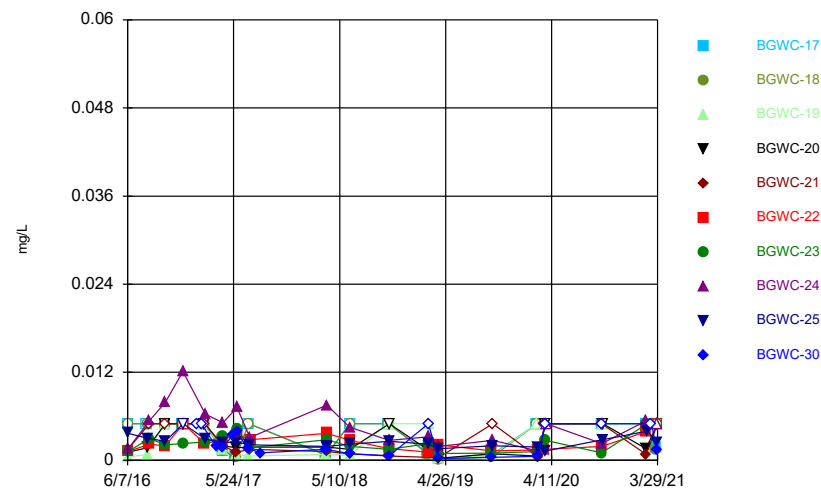
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



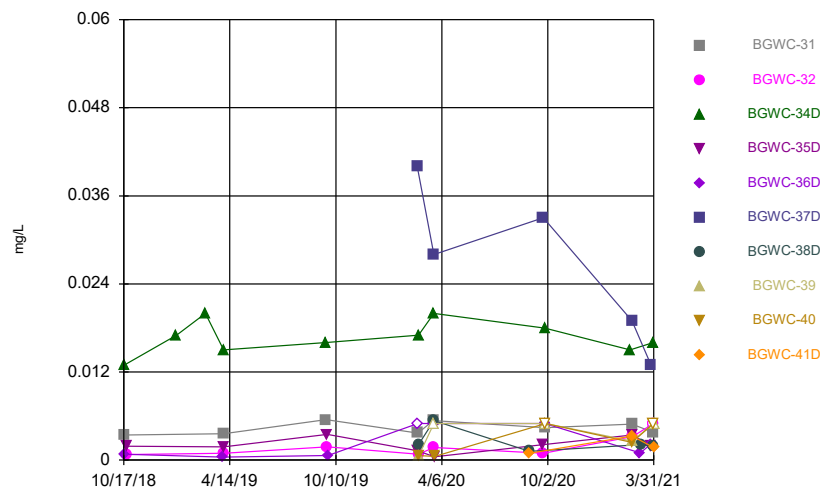
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



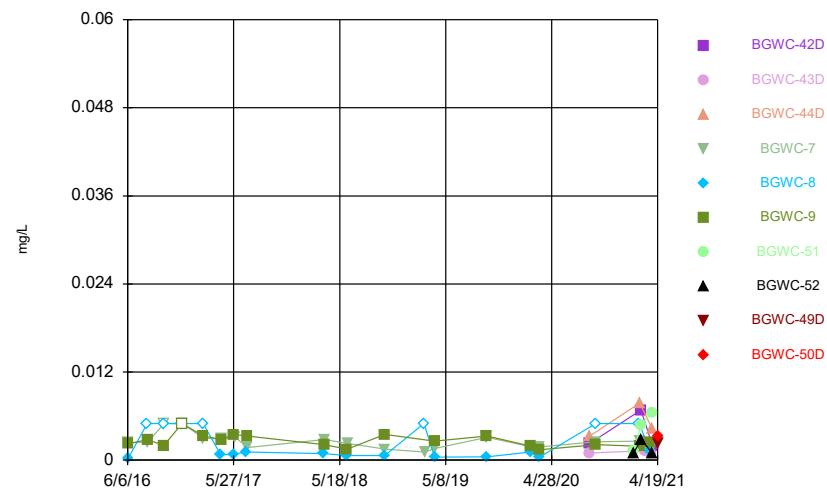
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



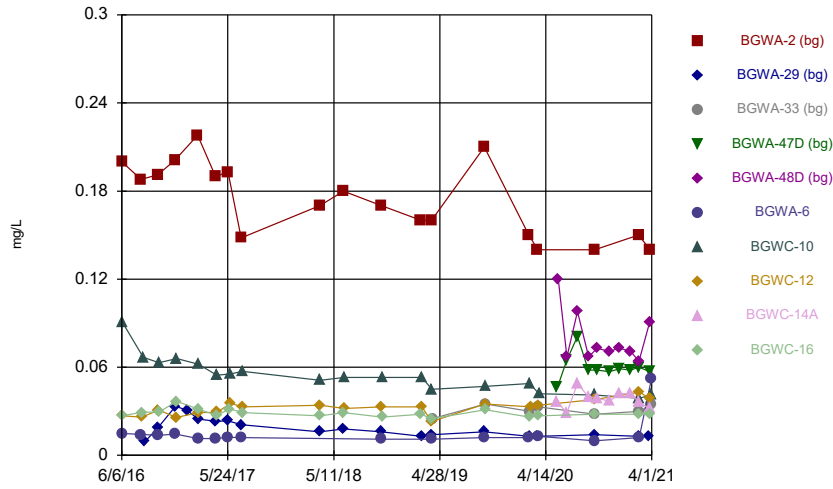
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



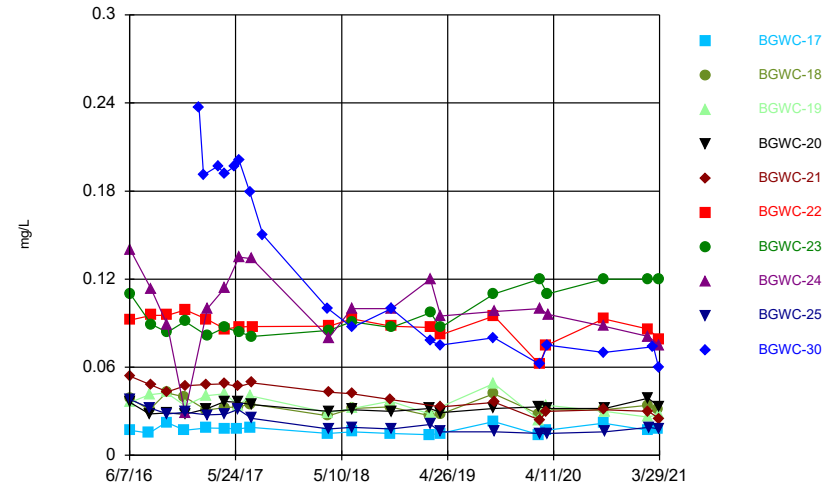
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



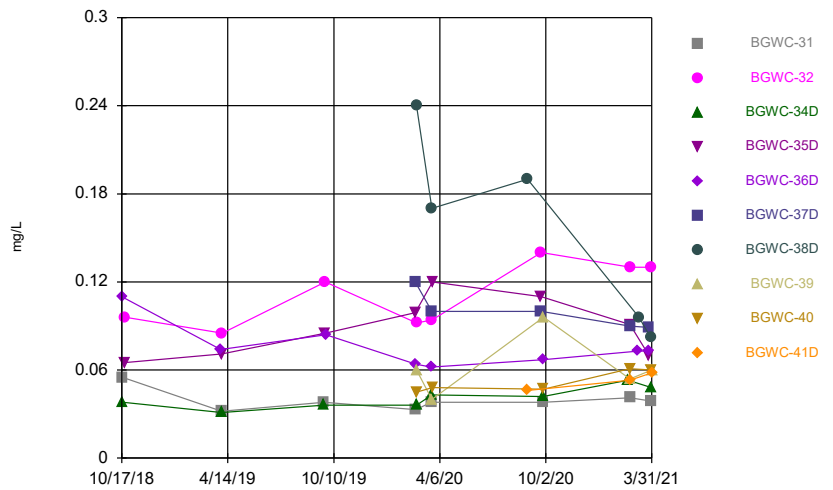
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Time Series



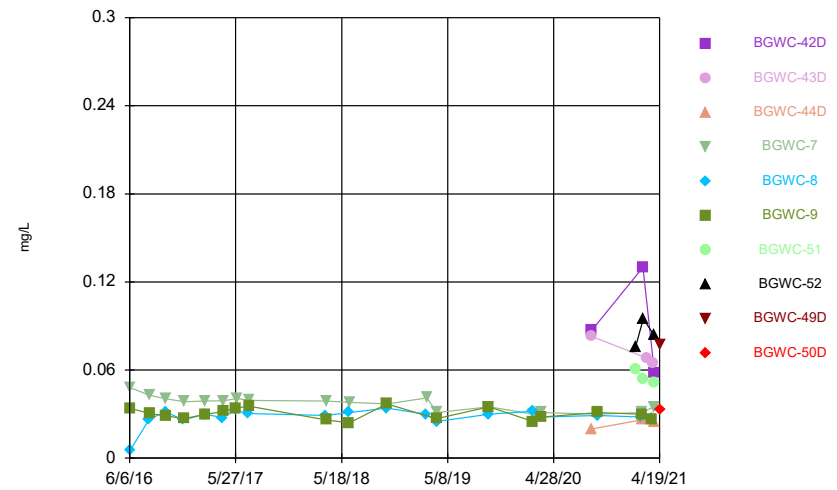
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



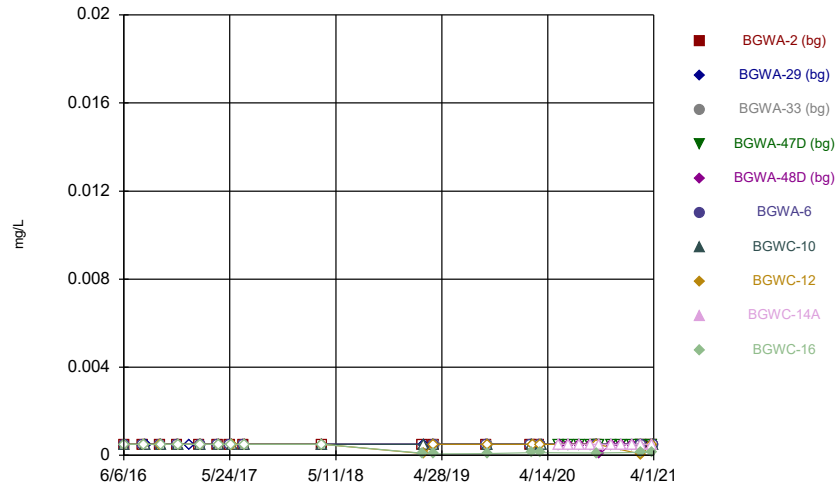
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



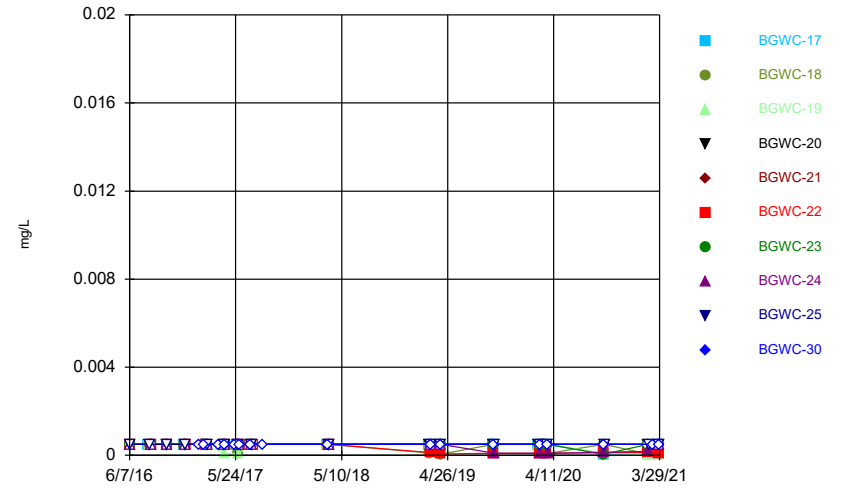
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



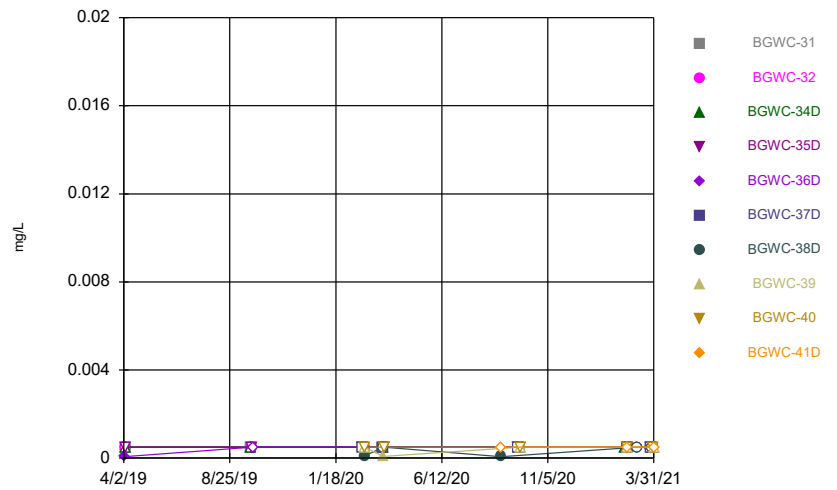
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



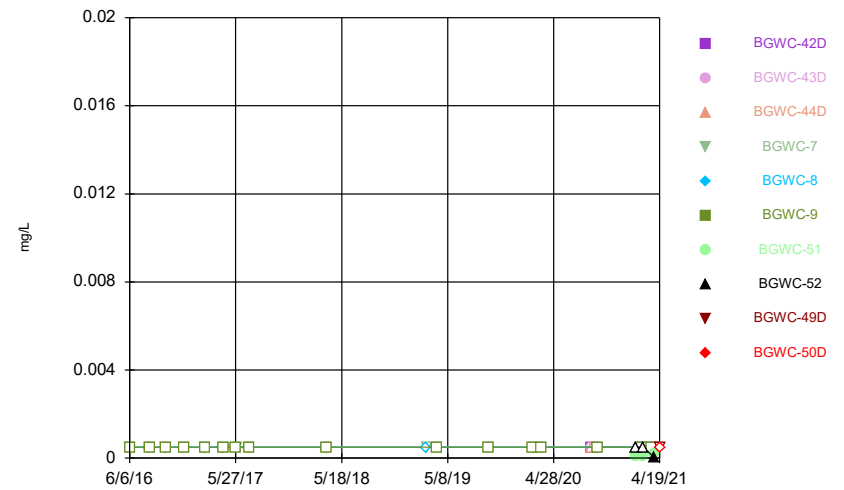
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



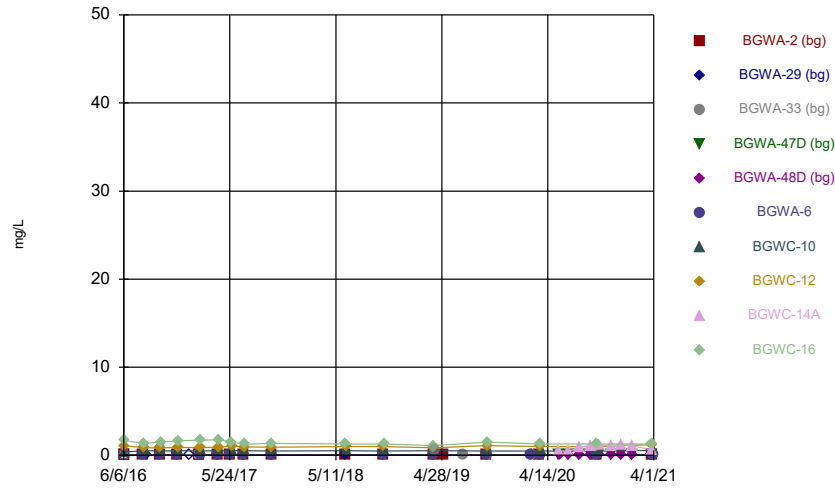
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



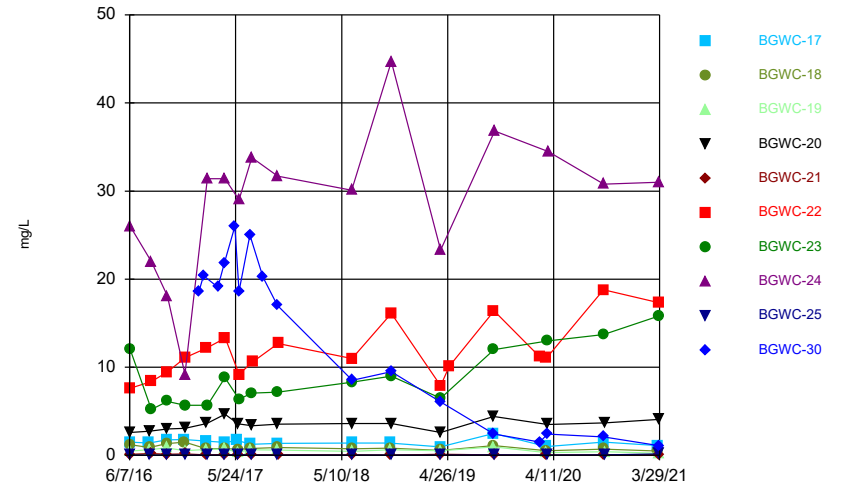
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



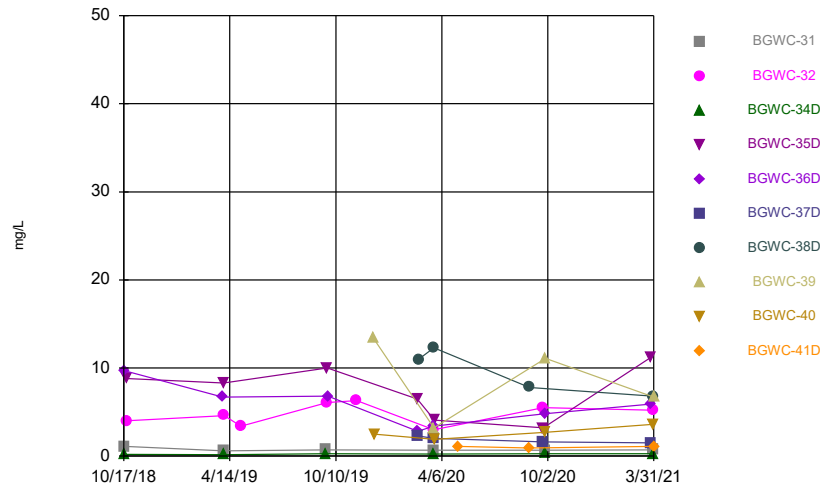
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



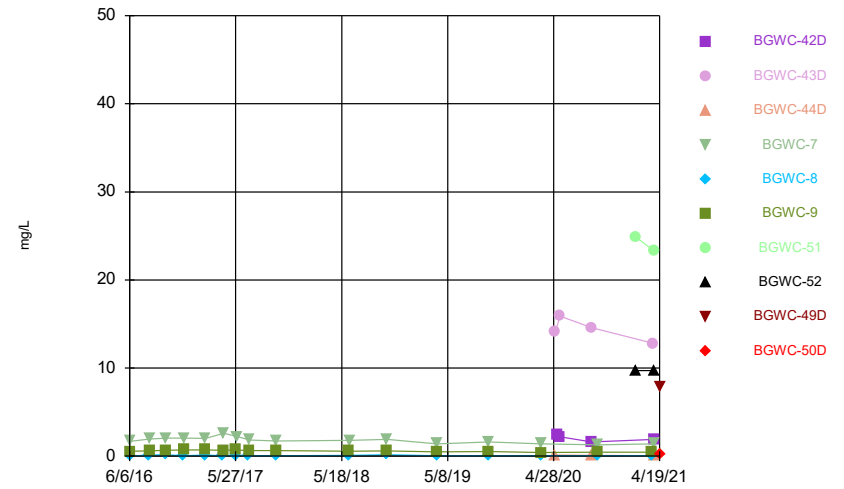
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



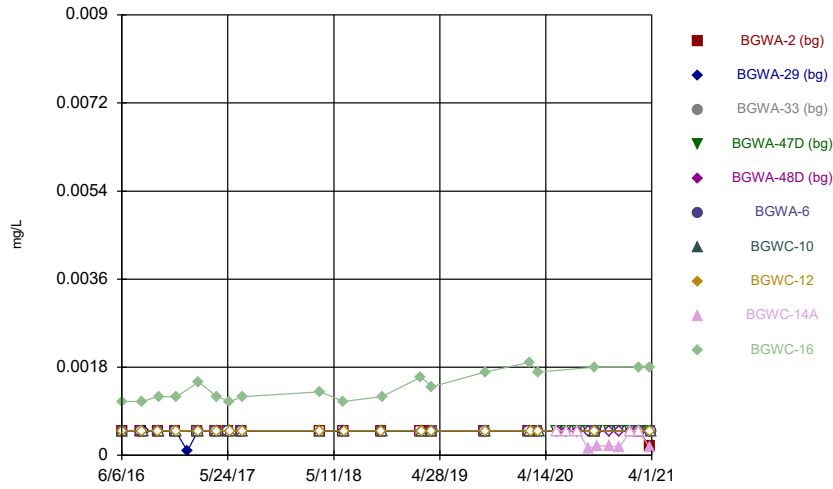
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



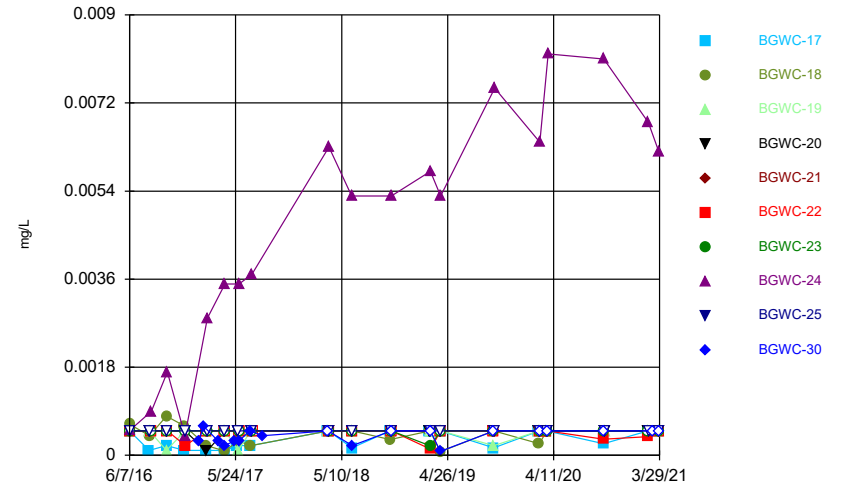
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



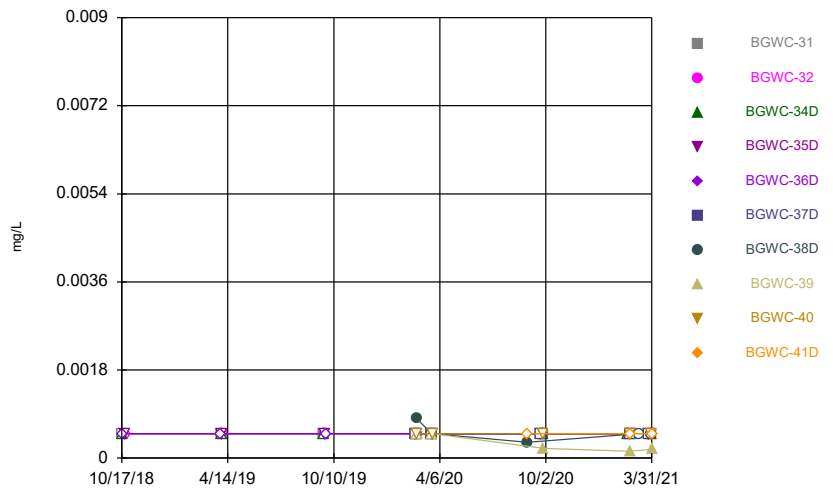
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



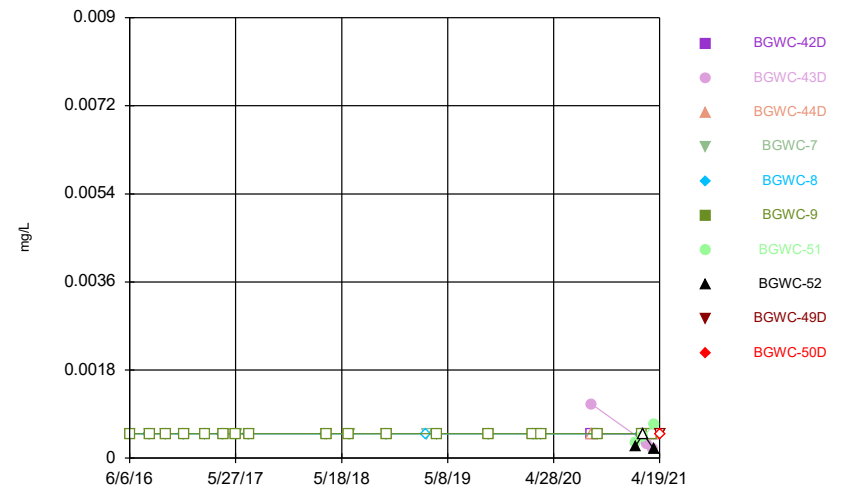
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



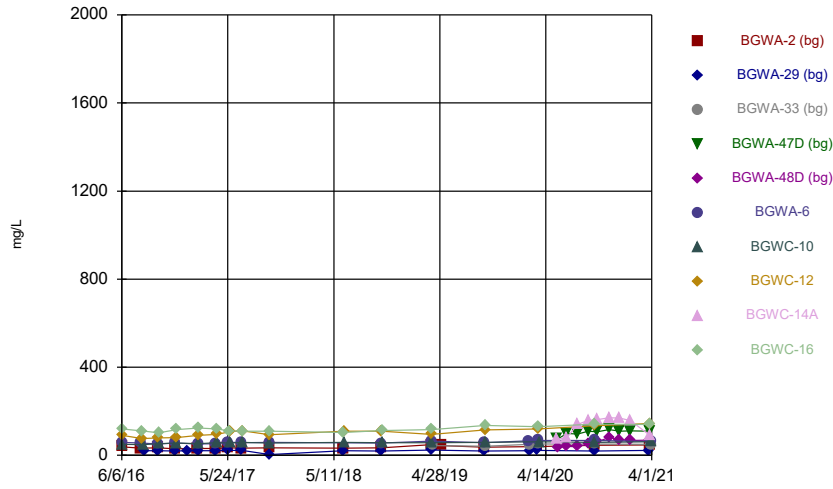
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



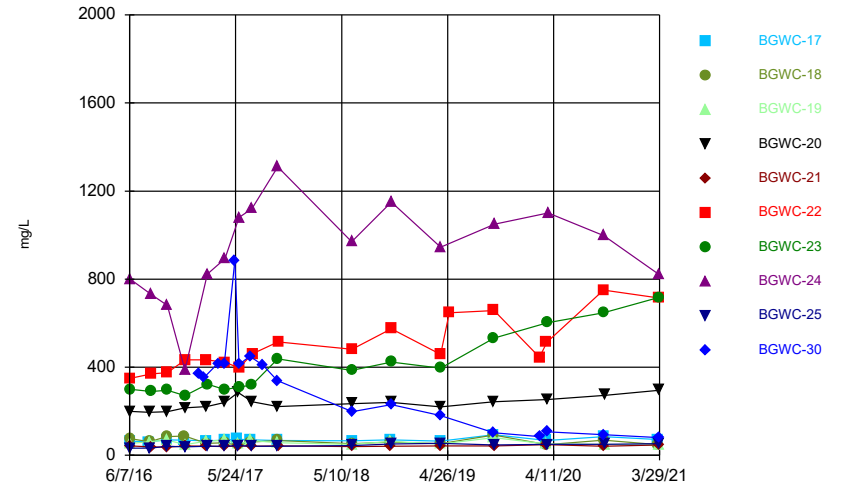
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



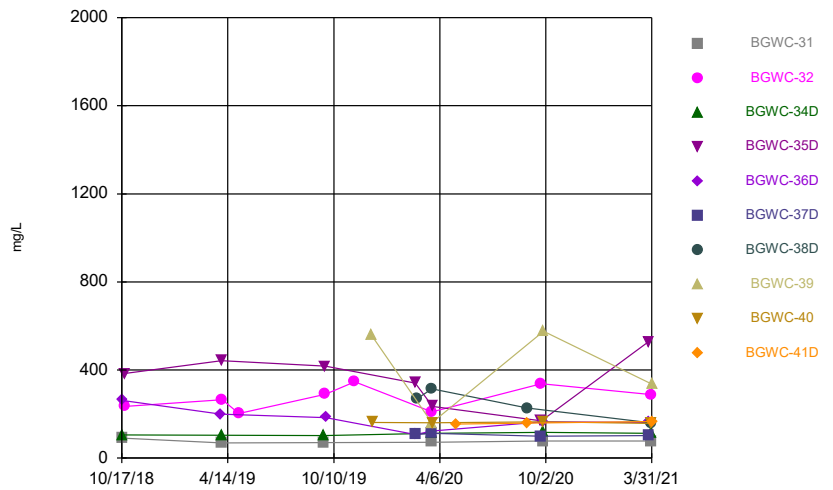
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



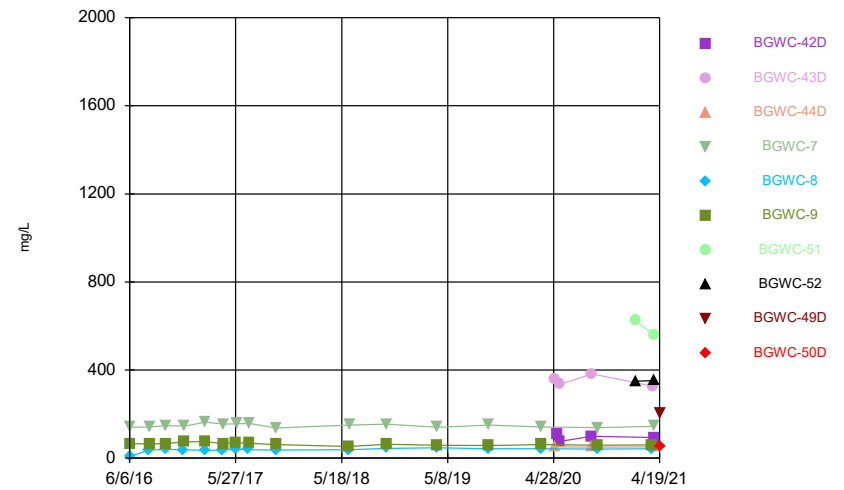
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



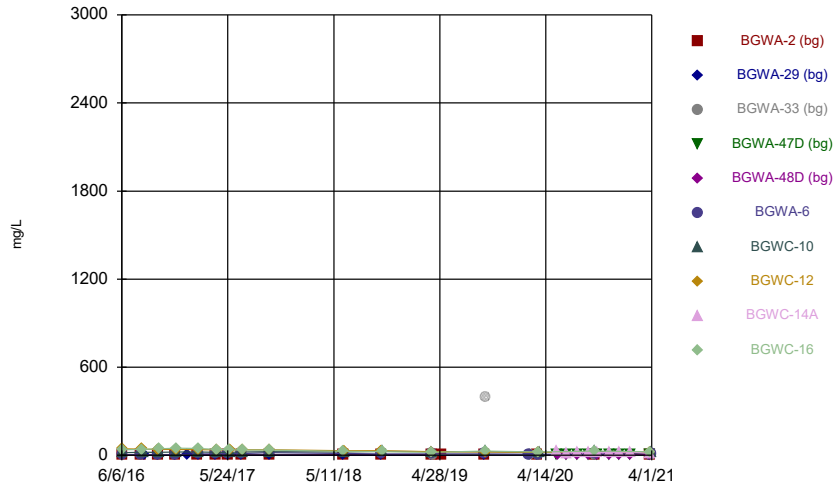
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



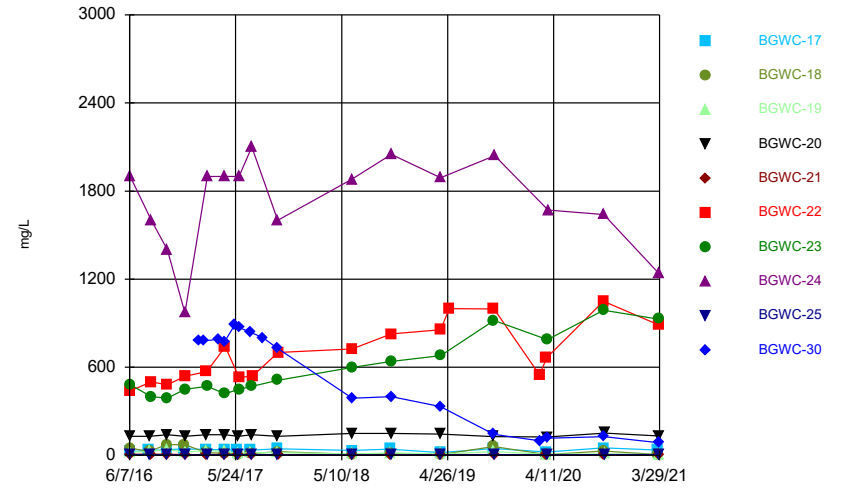
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



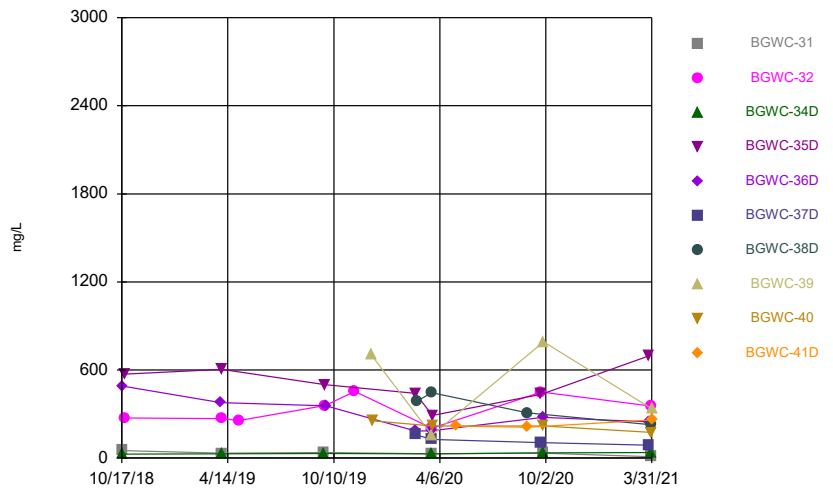
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



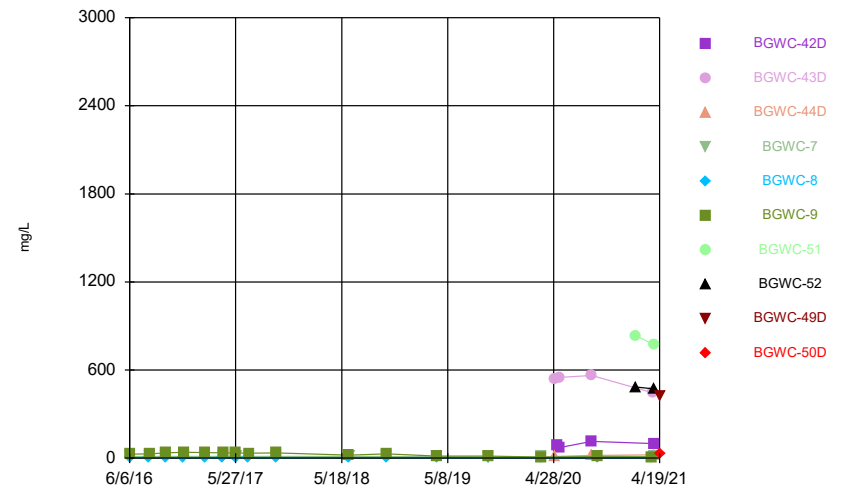
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



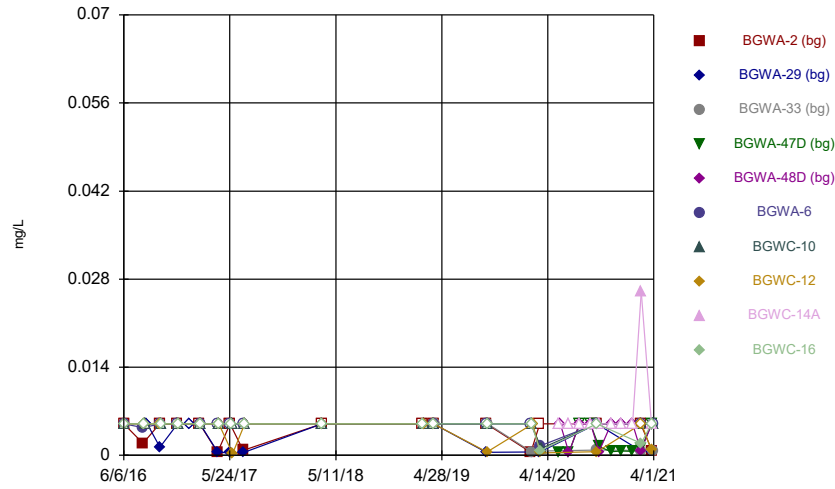
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



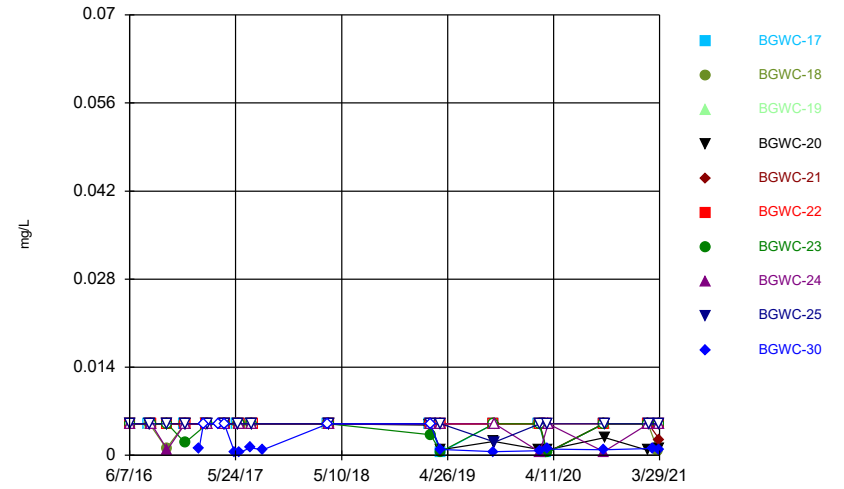
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



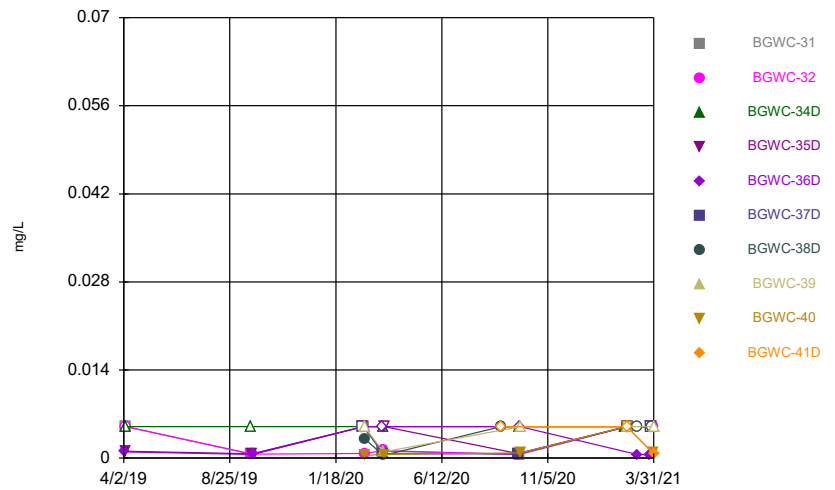
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



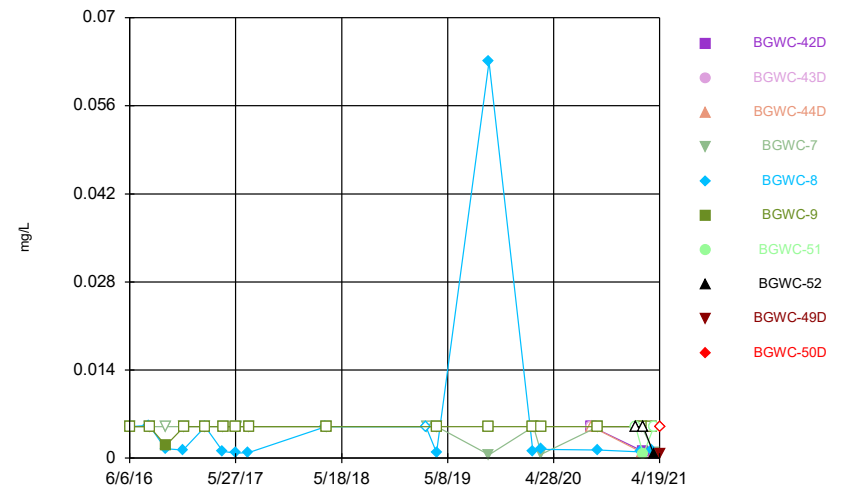
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Time Series



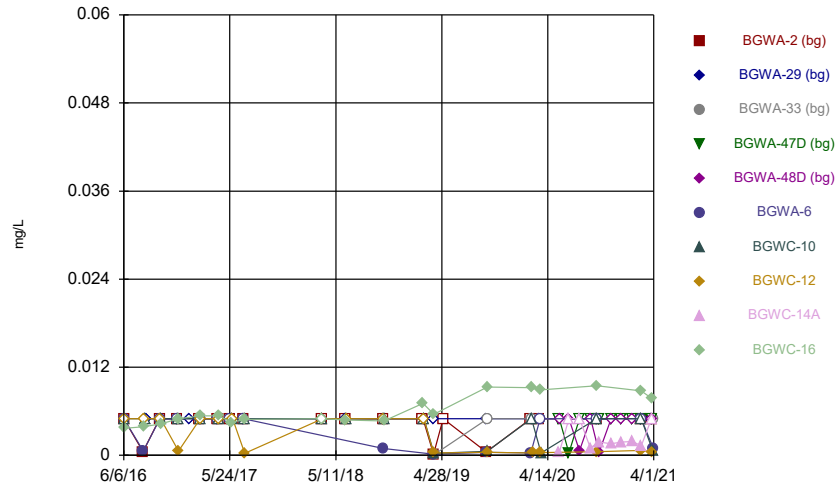
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Time Series



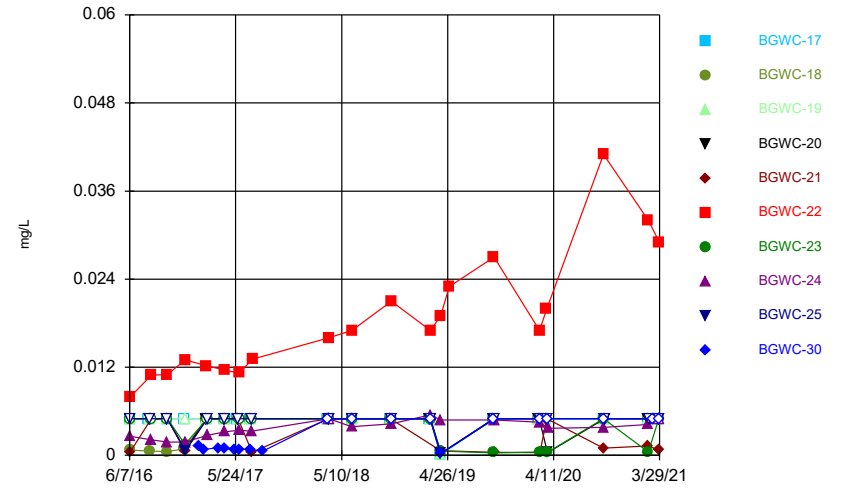
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



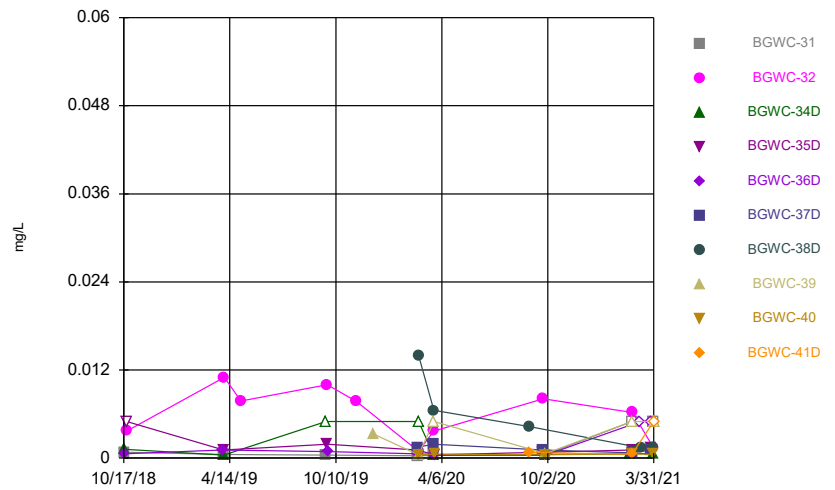
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



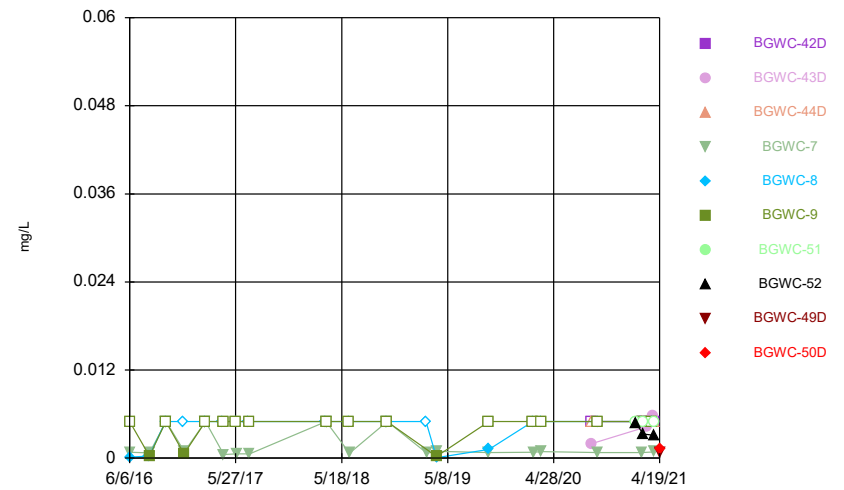
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



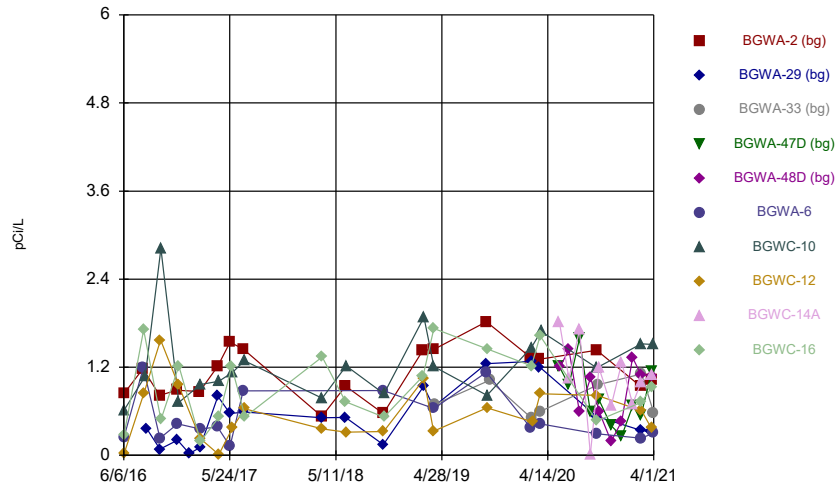
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



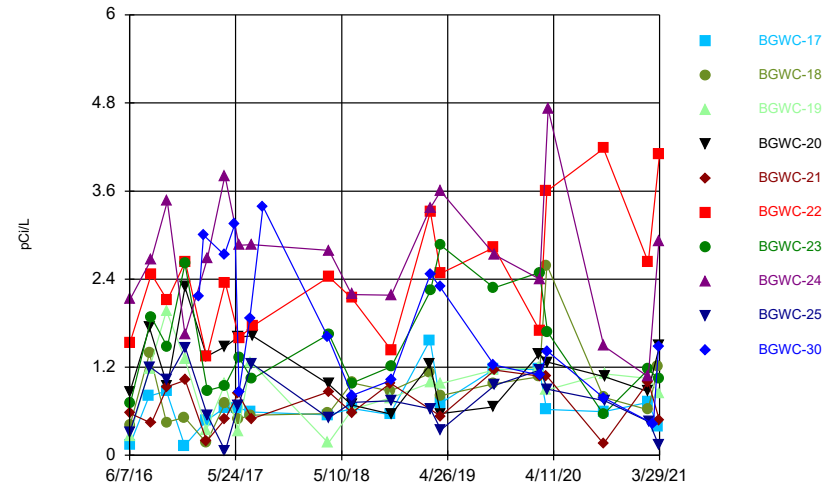
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



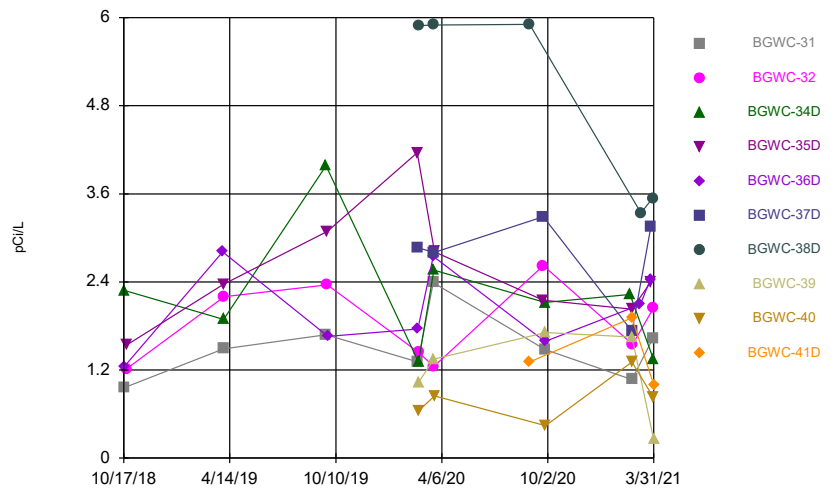
Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2021 3:07 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



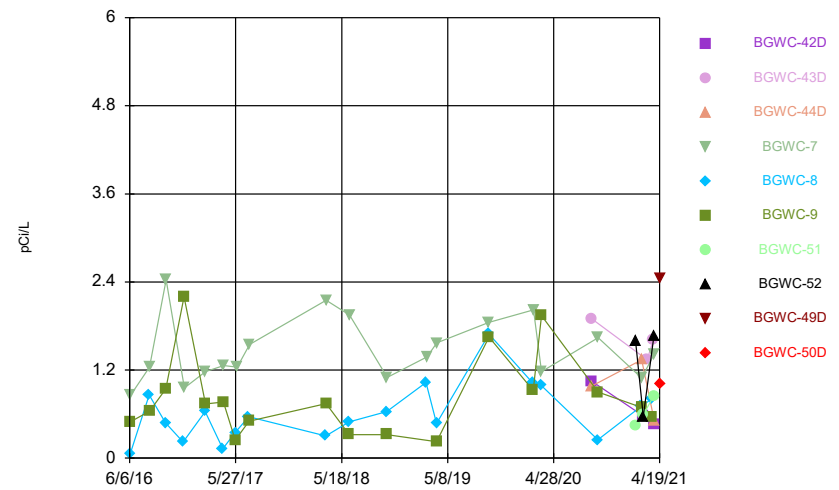
Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2021 3:07 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



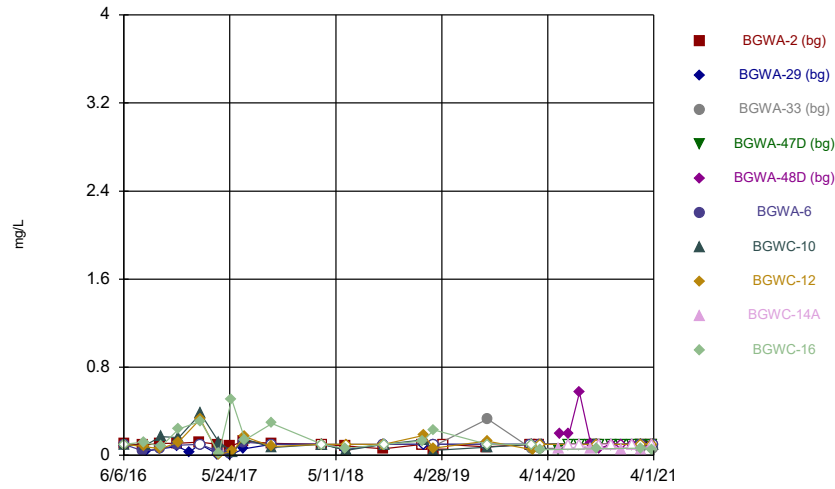
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



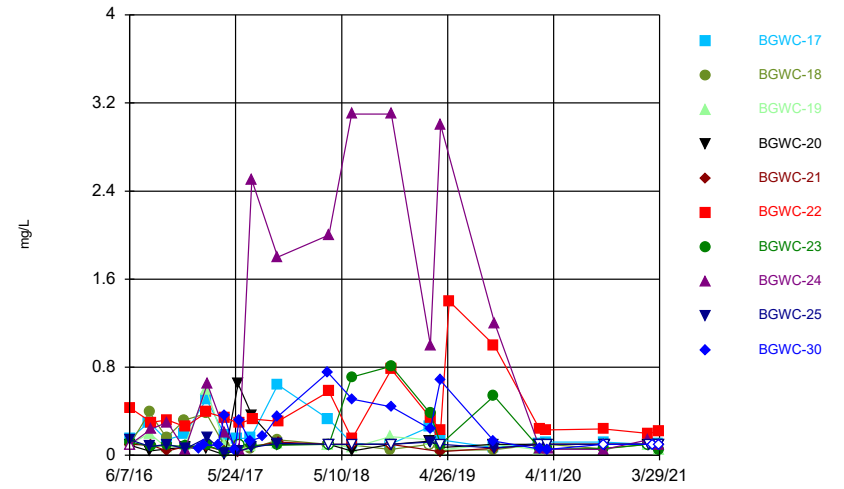
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



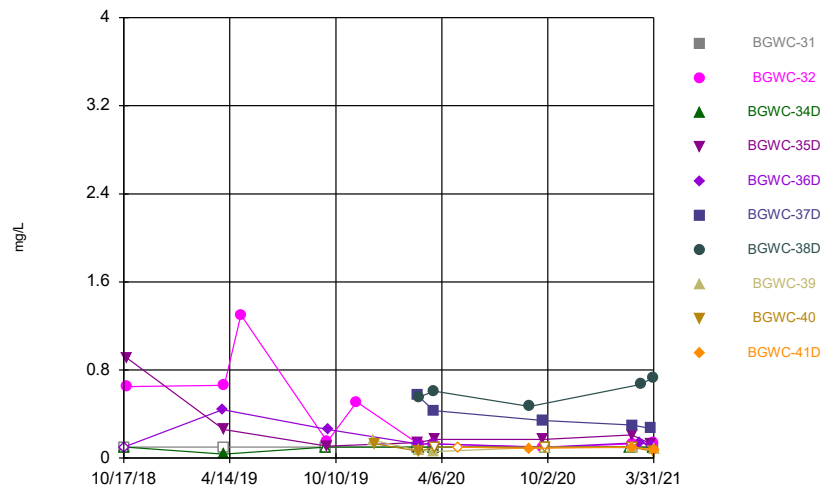
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



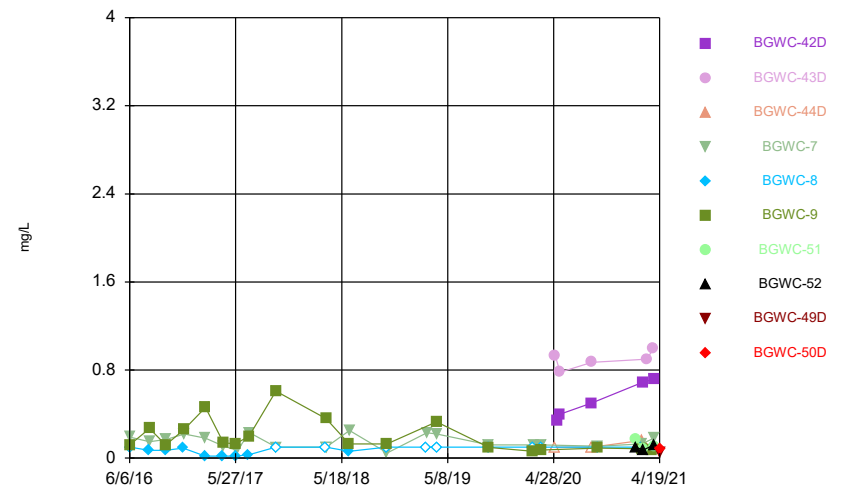
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



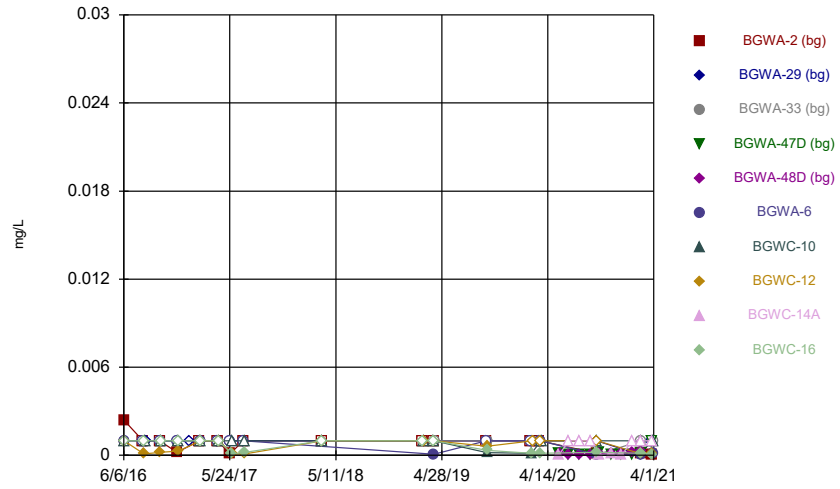
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



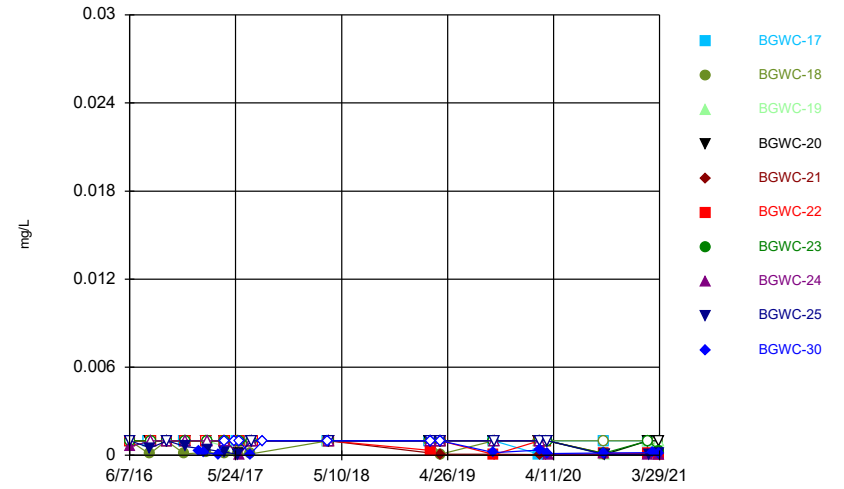
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



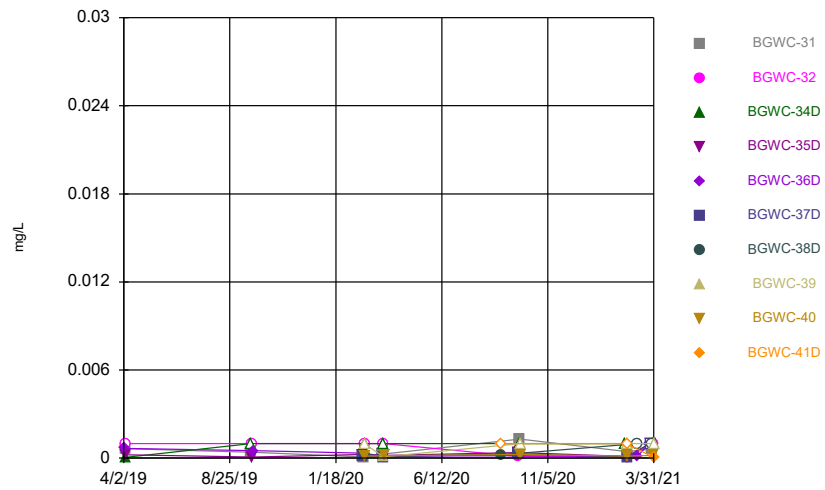
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



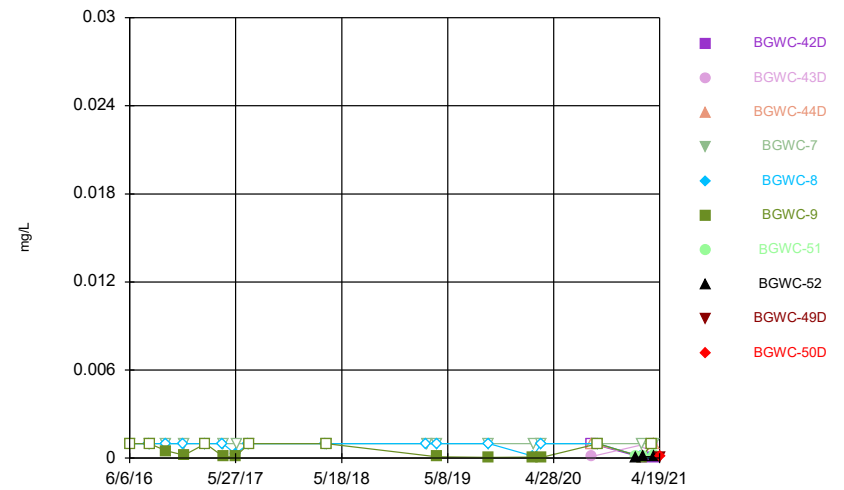
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



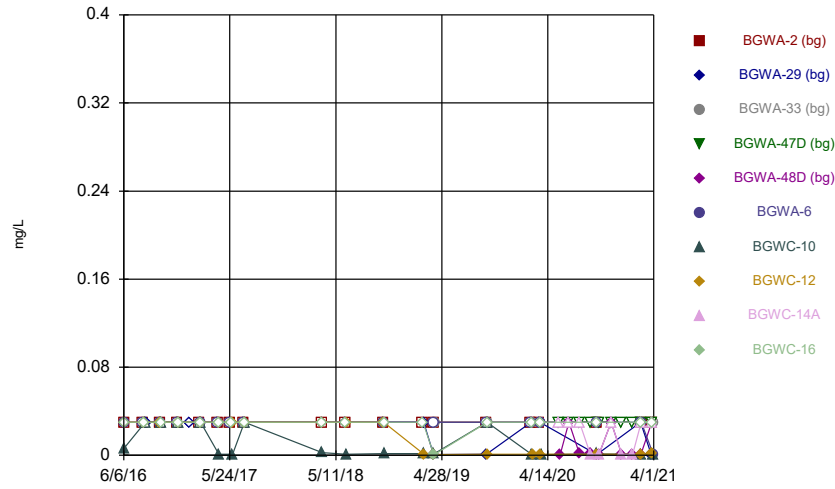
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



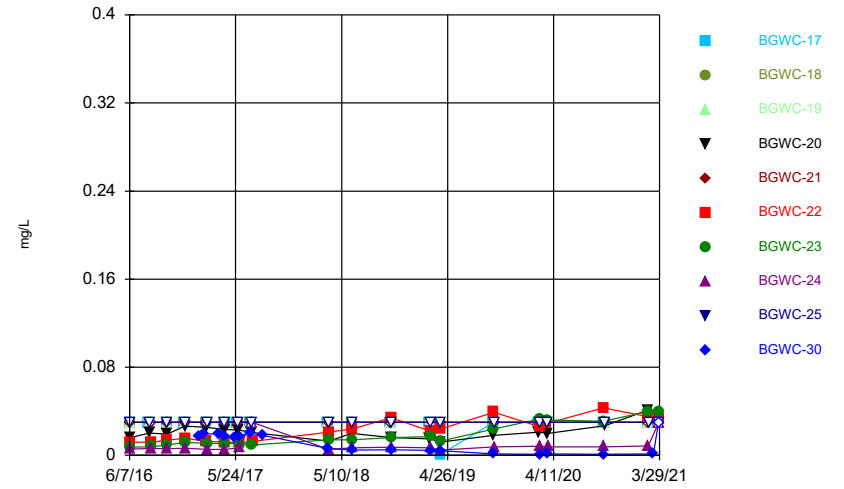
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



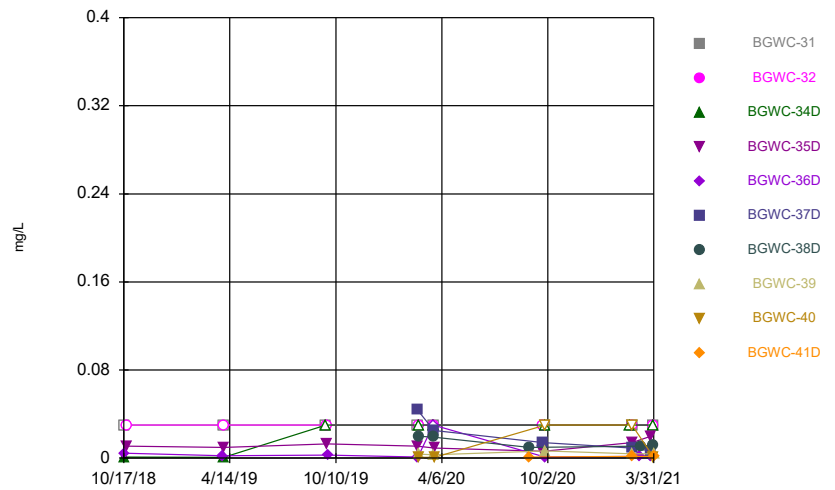
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



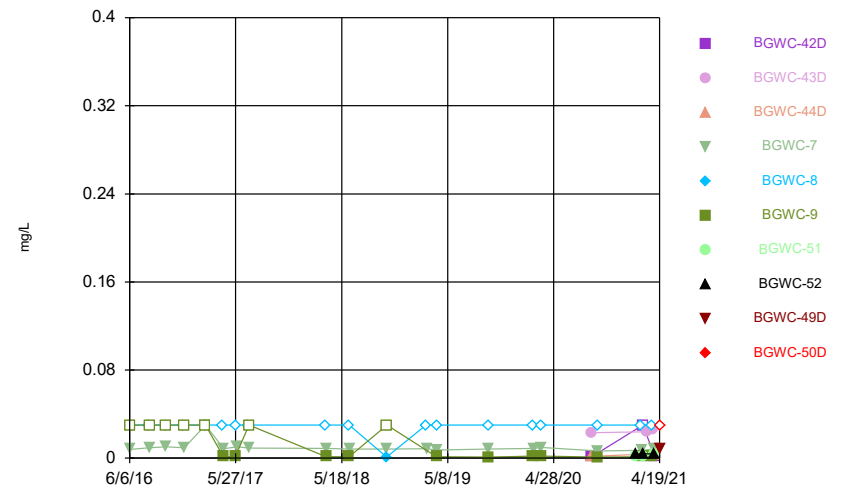
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



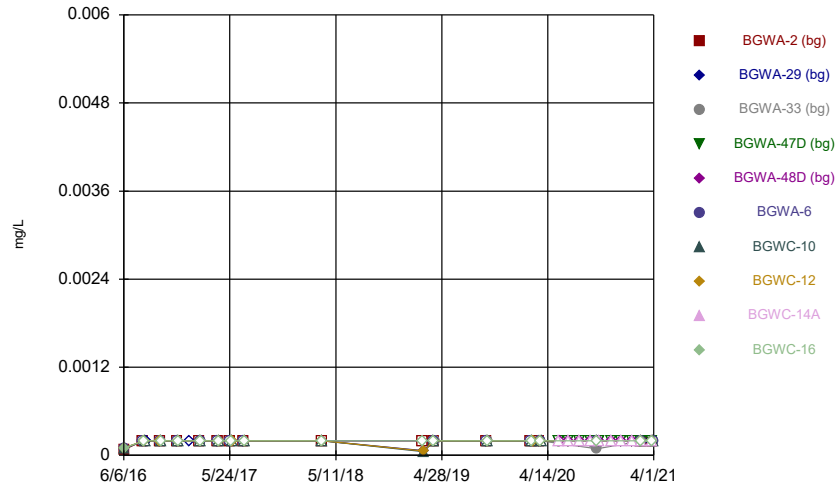
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



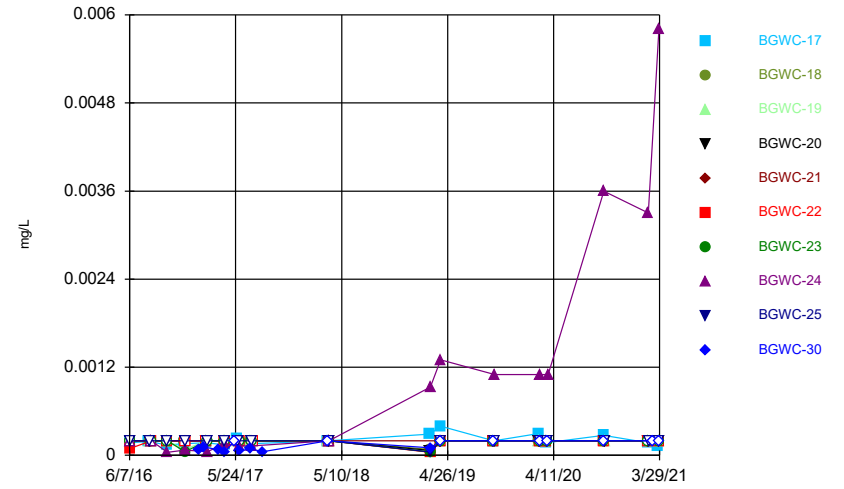
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



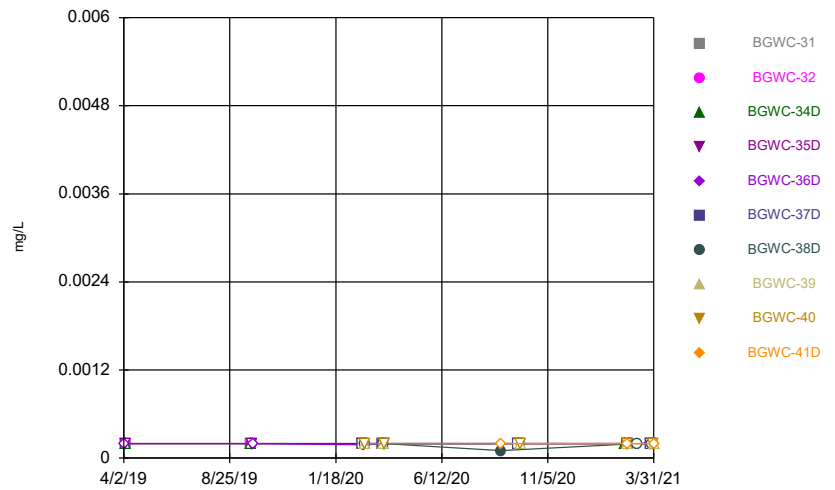
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



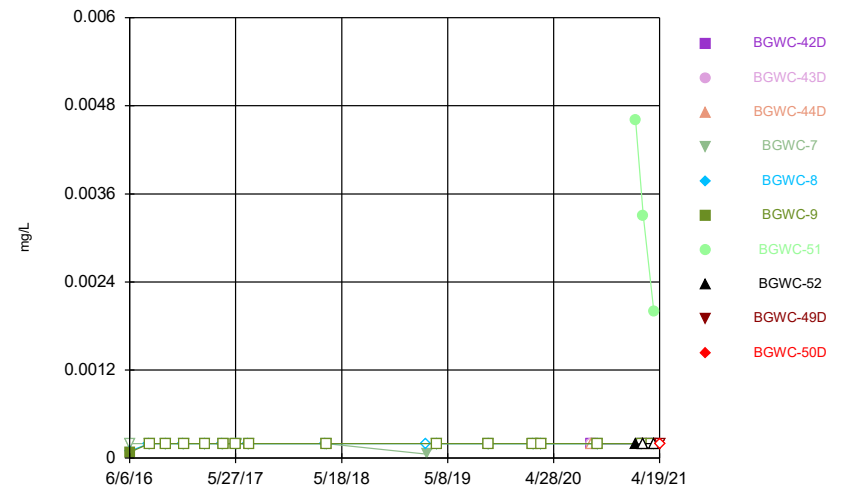
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



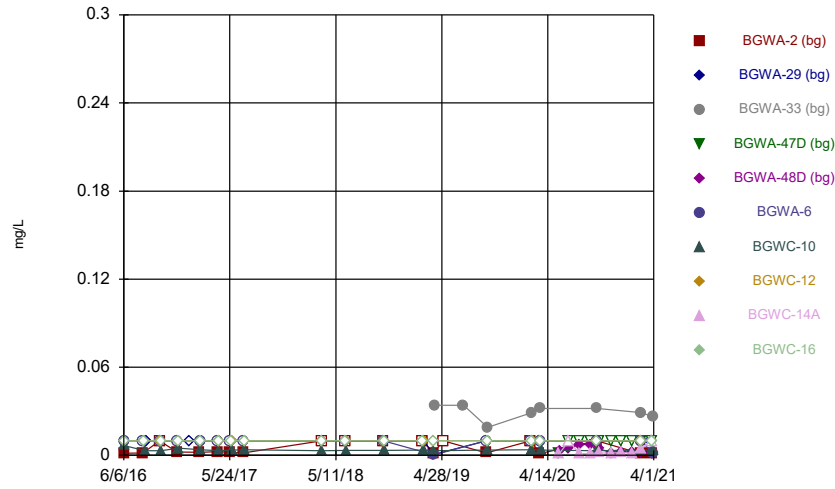
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



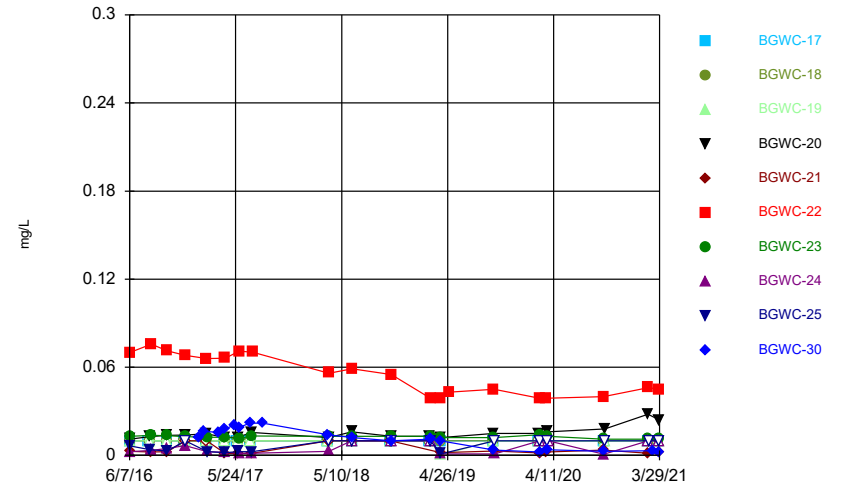
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



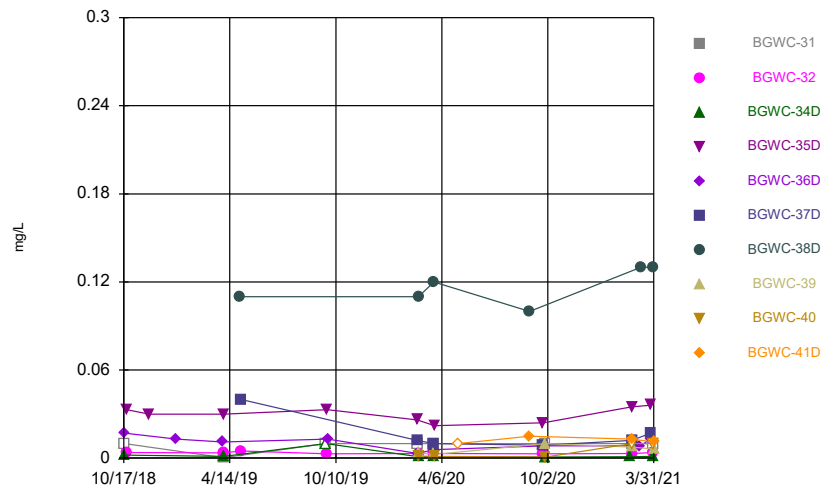
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



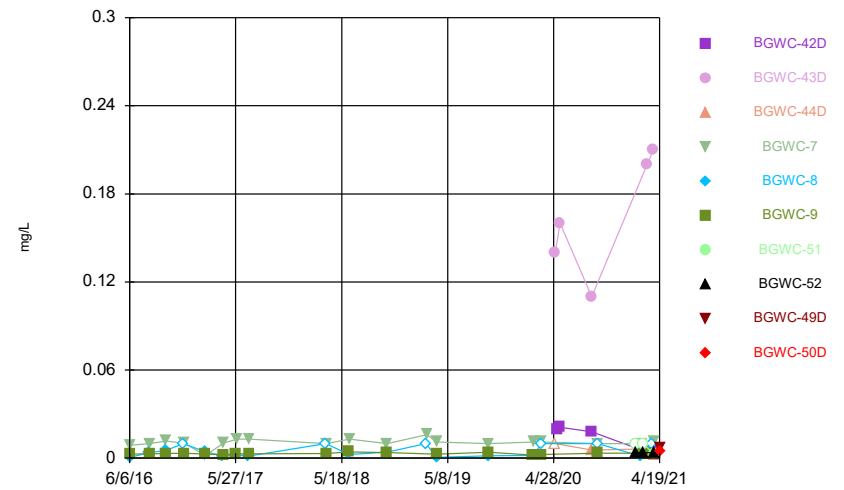
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



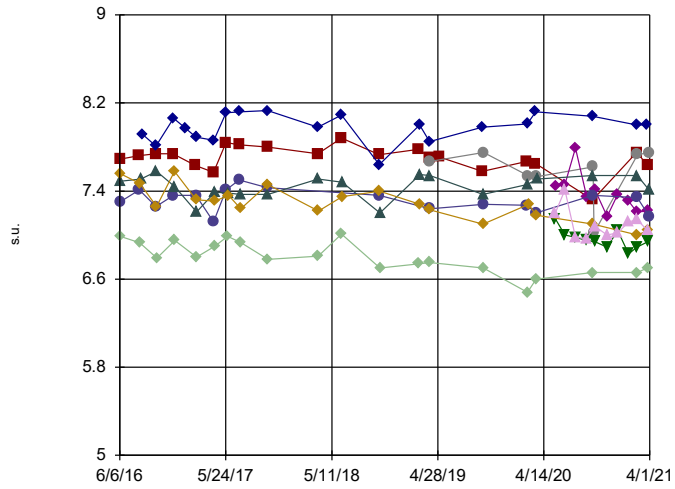
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



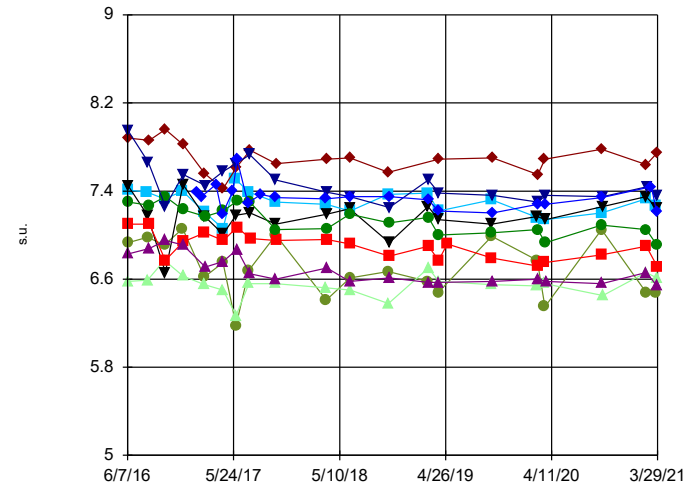
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Time Series



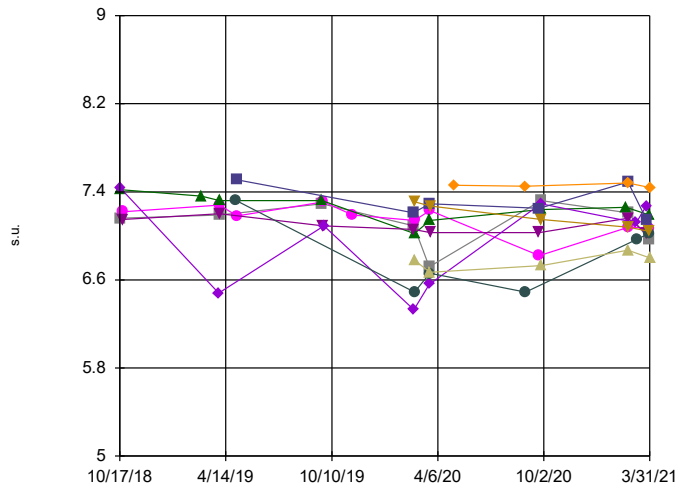
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



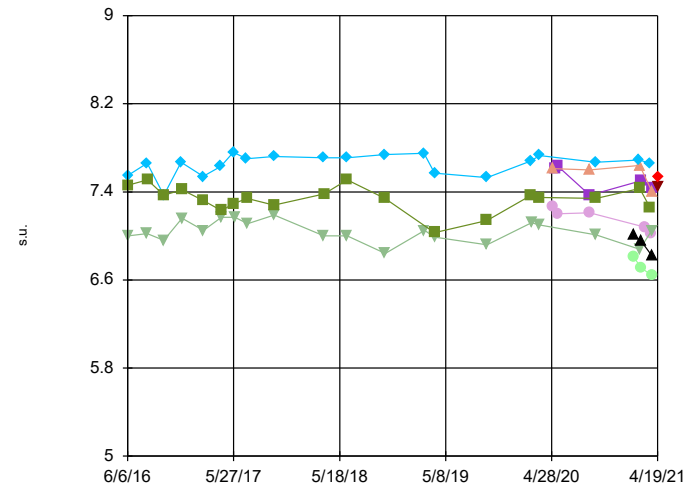
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



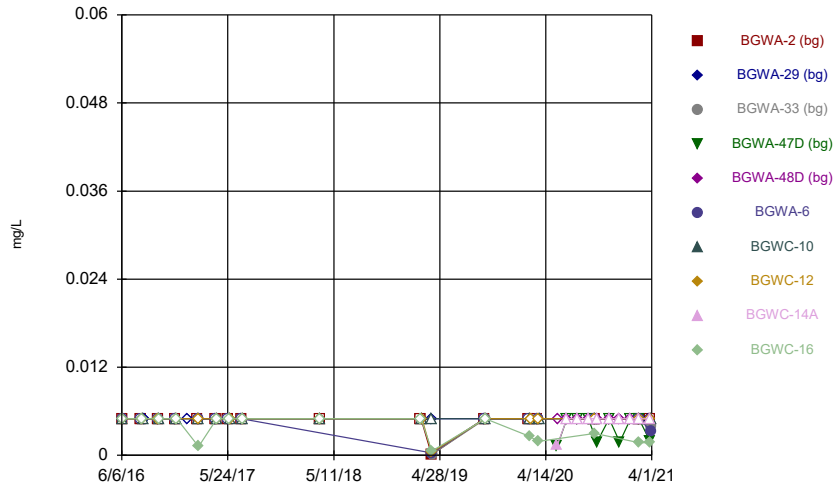
Constituent: pH Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



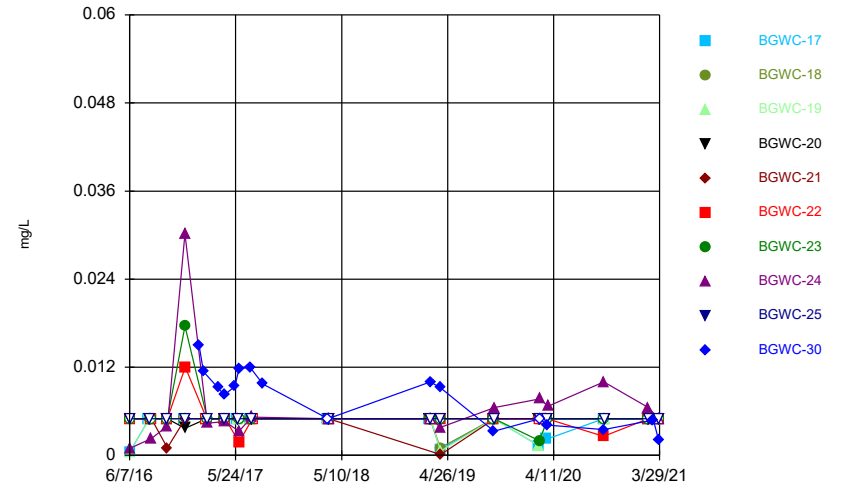
Constituent: pH Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



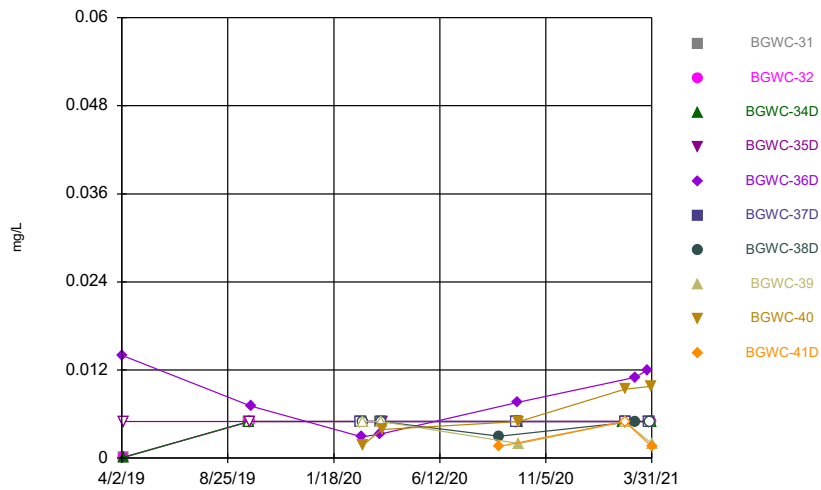
Constituent: Seleniun Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



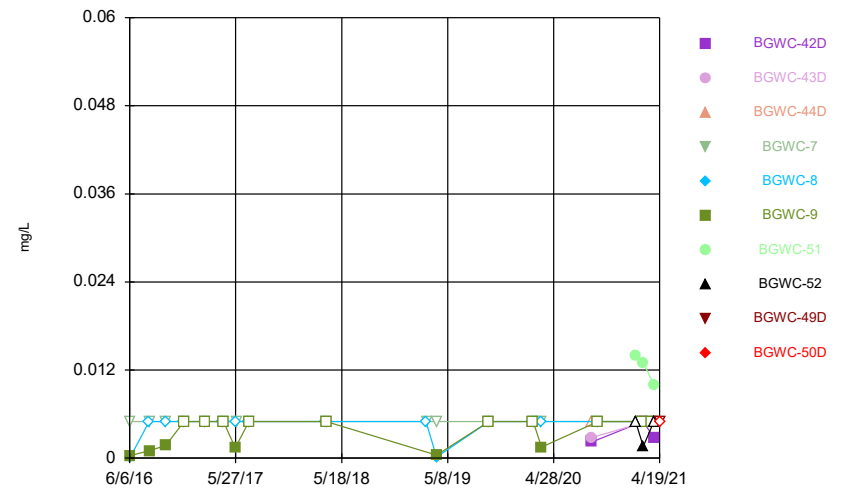
Constituent: Seleniun Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



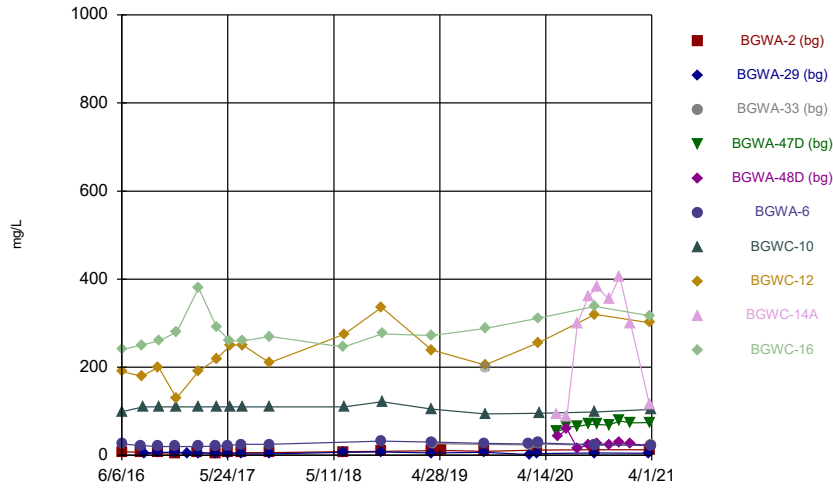
Constituent: Seleniun Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



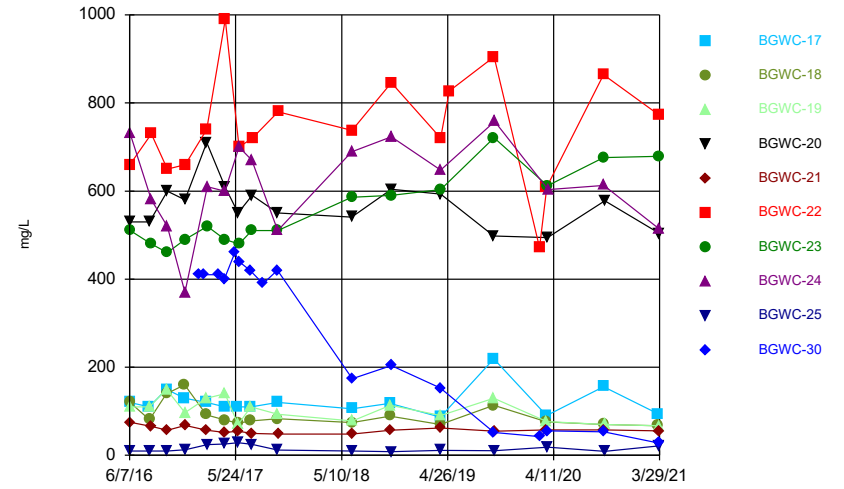
Constituent: Seleniun Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



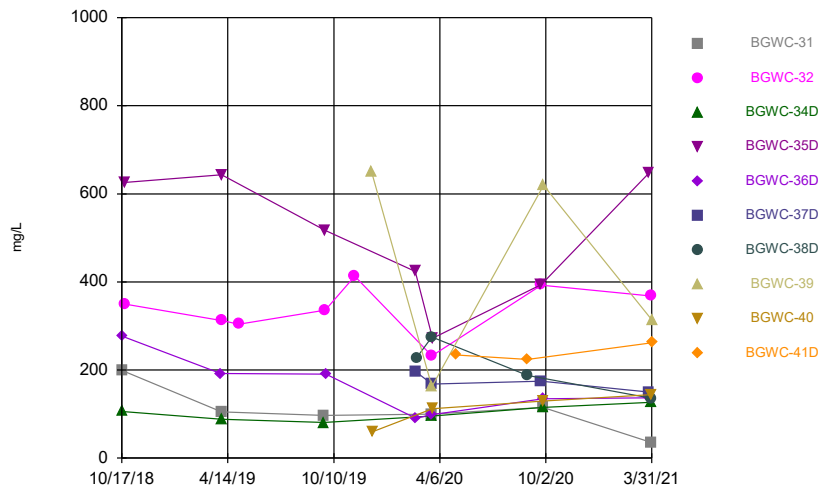
Constituent: Sulfate Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



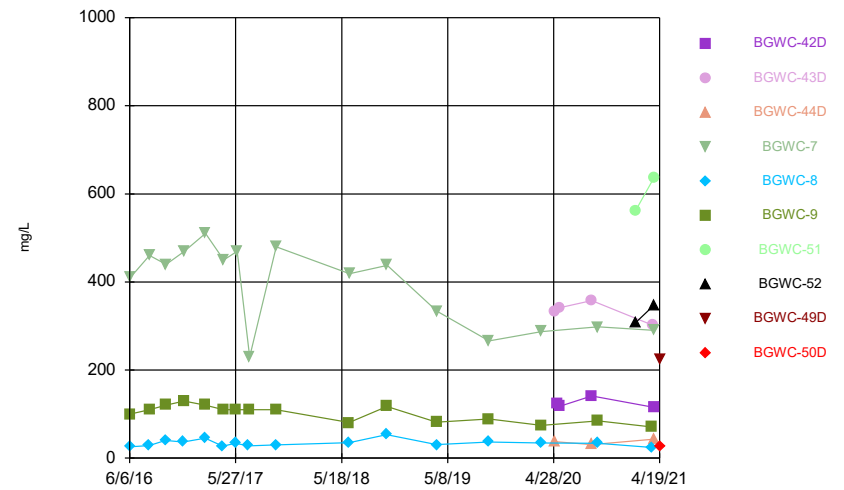
Constituent: Sulfate Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



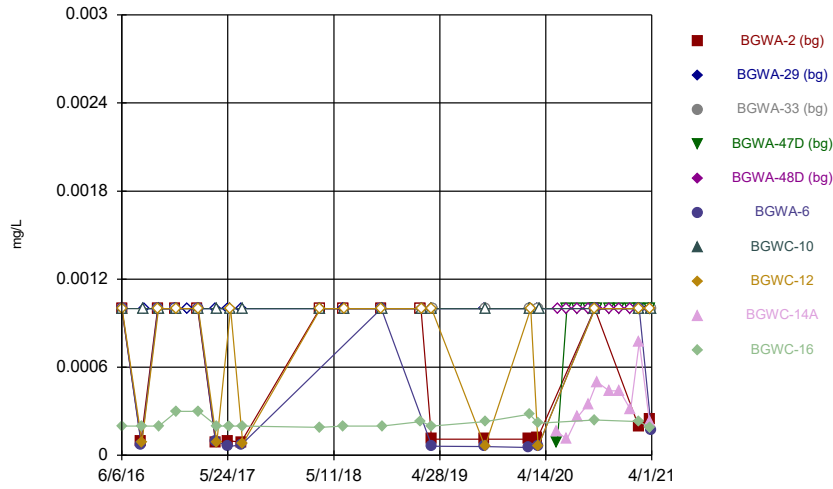
Constituent: Sulfate Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



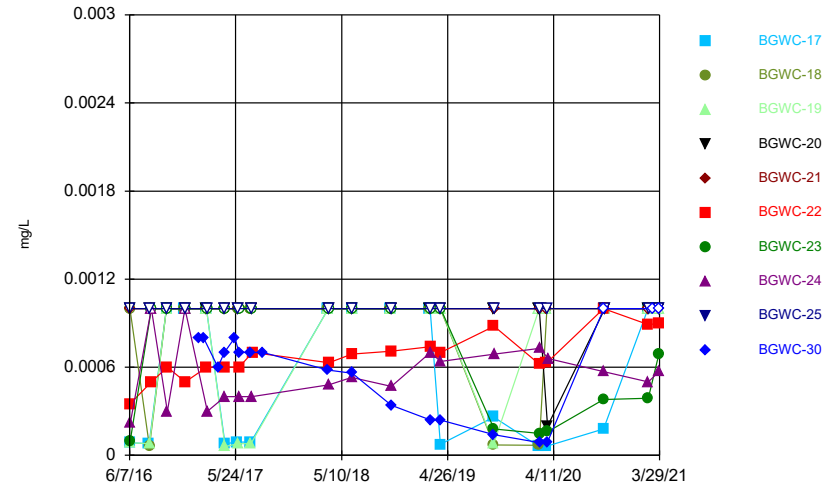
Constituent: Sulfate Analysis Run 5/17/2021 1:32 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



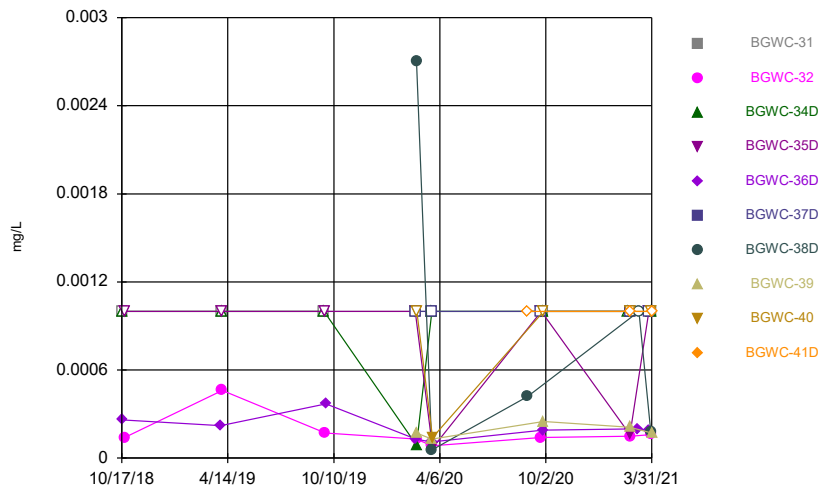
Constituent: Thallium Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



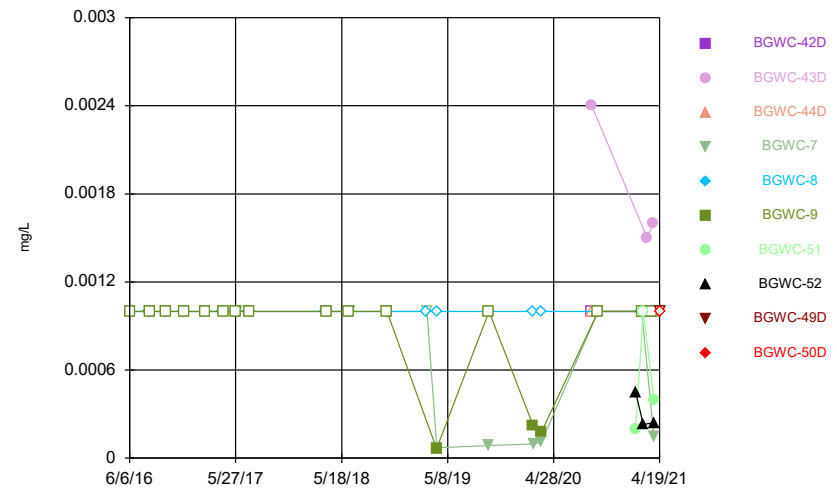
Constituent: Thallium Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



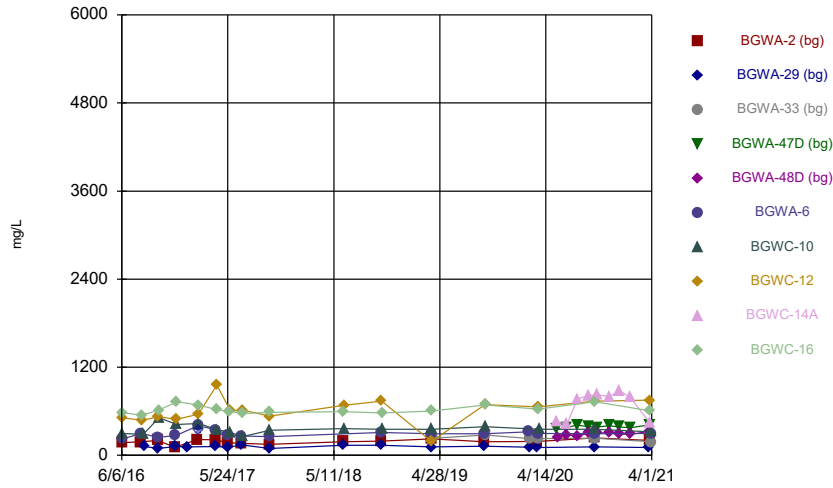
Constituent: Thallium Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



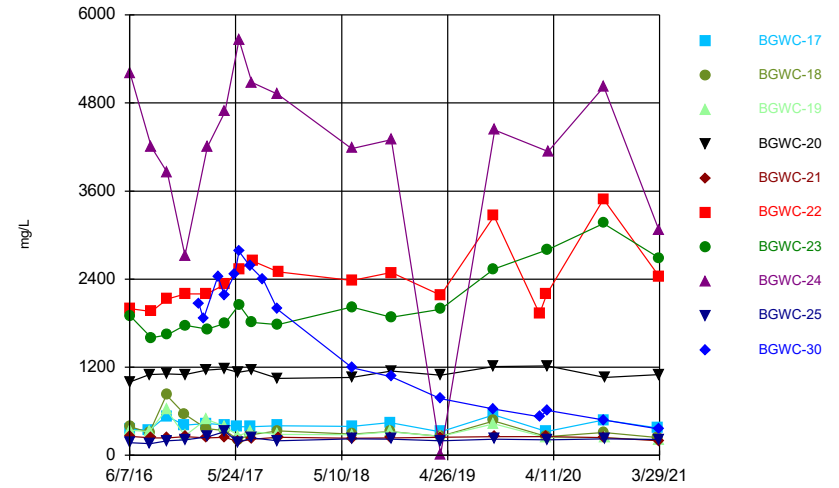
Constituent: Thallium Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



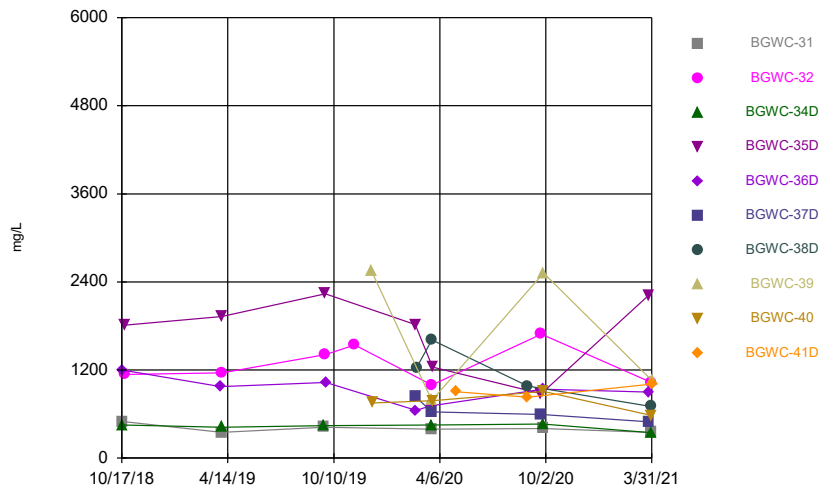
Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



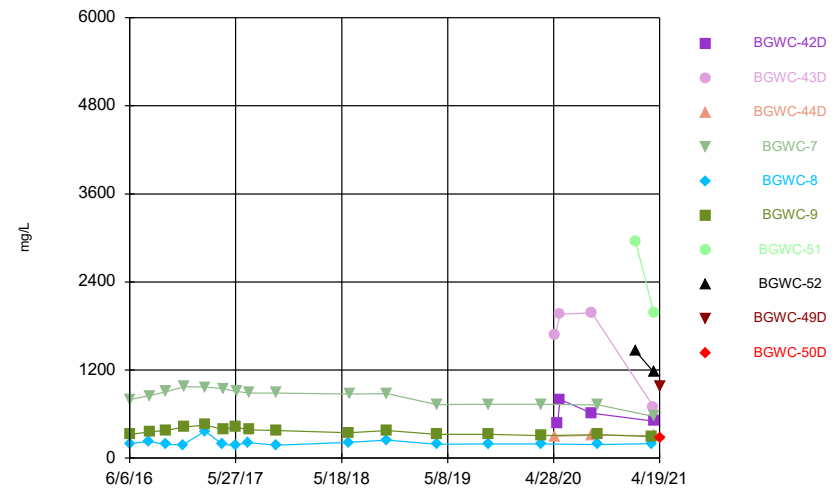
Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:32 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.003					<0.003			
6/7/2016							0.0022 (J)	<0.003	
8/9/2016	<0.003								
8/10/2016						<0.003			
8/11/2016									
8/12/2016								<0.003	
8/16/2016							<0.003		
8/22/2016		<0.003							
10/3/2016	<0.003								
10/4/2016		<0.003				<0.003			
10/6/2016								<0.003	
10/7/2016							<0.003		
11/29/2016	<0.003								
12/1/2016		<0.003				<0.003			
12/5/2016								<0.003	
12/6/2016							<0.003		
1/10/2017		<0.003							
2/13/2017	<0.003								
2/14/2017		<0.003				<0.003			
2/15/2017								<0.003	
2/16/2017							<0.003		
4/13/2017	0.0004 (J)					<0.003			
4/14/2017		<0.003							
4/18/2017							<0.003	<0.003	
5/25/2017	<0.003	<0.003				<0.003			
5/30/2017									
6/2/2017							<0.003	<0.003	
7/7/2017	<0.003					<0.003			
7/10/2017		<0.003							
7/12/2017							<0.003		
7/13/2017								<0.003	
7/14/2017									
3/26/2018	<0.003	<0.003							
3/27/2018							<0.003		
3/28/2018								<0.003	
2/25/2019	<0.003								
2/27/2019		<0.003							
2/28/2019							<0.003	<0.003	
2/18/2020	<0.003					<0.003			
2/19/2020		<0.003							
2/20/2020							<0.003		
2/21/2020			0.0016 (J)						
2/24/2020								<0.003	
3/18/2020	<0.003	<0.003							
3/19/2020						<0.003		<0.003	
3/20/2020			0.0014 (J)						
3/23/2020							<0.003		
5/22/2020				<0.003					<0.003
5/25/2020					0.0042				
6/23/2020				<0.003	0.00074 (J)				<0.003
7/28/2020				0.0013 (J)	0.0014 (J)				<0.003
9/2/2020				0.00082 (J)					<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
9/3/2020					0.0023 (J)				
9/23/2020	<0.003	<0.003				<0.003			
9/24/2020							<0.003		
9/25/2020			0.0015 (J)					<0.003	
10/1/2020				0.00056 (J)	0.0026 (J)				0.0003 (J)
11/10/2020				0.0019 (J)	0.0016 (J)				0.00061 (J)
12/15/2020				0.0018 (J)	0.0018 (J)				<0.003
1/20/2021				0.00068 (J)	0.0015 (J)				<0.003
2/16/2021	<0.003	0.0015 (J)							
2/17/2021				0.0013 (J)	0.0013 (J)				
2/18/2021						<0.003	<0.003		<0.003
2/19/2021			0.0011 (J)					<0.003	
3/23/2021		<0.003							
3/24/2021								<0.003	<0.003
3/25/2021				<0.003	0.0008 (J)				
3/26/2021	<0.003								
3/30/2021							<0.003		
3/31/2021						<0.003			
4/1/2021			0.002 (J)						

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16	
6/6/2016	
6/7/2016	<0.003
8/9/2016	
8/10/2016	
8/11/2016	0.0004 (J)
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.003
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.003
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.003
4/13/2017	
4/14/2017	
4/18/2017	<0.003
5/25/2017	
5/30/2017	<0.003
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.003
3/26/2018	
3/27/2018	<0.003
3/28/2018	
2/25/2019	<0.003
2/27/2019	
2/28/2019	
2/18/2020	
2/19/2020	
2/20/2020	<0.003
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	<0.003
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

9/3/2020	
9/23/2020	
9/24/2020	<0.003
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	<0.003
2/19/2021	
3/23/2021	
3/24/2021	<0.003
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/24/2021	<0.003	<0.003							
3/25/2021									
3/26/2021			<0.003				<0.003	<0.003	<0.003
3/29/2021				<0.003	<0.003	<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	<0.003
2/7/2017	<0.003
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	<0.003
4/17/2017	<0.003
4/19/2017	
4/20/2017	
5/22/2017	<0.003
5/30/2017	
6/1/2017	
6/5/2017	<0.003
7/11/2017	<0.003
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	<0.003
3/26/2018	<0.003
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	<0.003
2/24/2020	
2/25/2020	
2/26/2020	<0.003
3/19/2020	
3/20/2020	
3/23/2020	<0.003
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.003
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/24/2021
3/25/2021
3/26/2021
3/29/2021

<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
2/25/2020				<0.003		<0.003			
2/26/2020	<0.003				<0.003				
2/27/2020		<0.003	<0.003				0.0003 (J)	<0.003	
2/28/2020									<0.003
3/23/2020	<0.003				<0.003				
3/24/2020		<0.003	<0.003			<0.003	<0.003	<0.003	
3/25/2020				<0.003					<0.003
9/2/2020							0.0016 (J)		
9/25/2020		0.00039 (J)		0.00064 (J)		0.0022 (J)			
9/28/2020	0.00038 (J)		0.00049 (J)		<0.003				
9/29/2020								<0.003	<0.003
2/19/2021			<0.003						
2/22/2021	<0.003			0.00066 (J)		0.00041 (J)		<0.003	<0.003
2/23/2021		0.00036 (J)							
3/8/2021					0.00096 (J)				
3/9/2021							0.00062 (J)		
3/25/2021					<0.003				
3/26/2021				<0.003		<0.003			
3/29/2021	<0.003						<0.003		
3/30/2021		<0.003	0.00079 (J)						0.0005 (J)
3/31/2021							<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.0014 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.003
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
2/25/2019
2/28/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

0.0019 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.0012 (J)					<0.005			
6/7/2016							0.0039	<0.005	
8/9/2016	<0.005								
8/10/2016						<0.005			
8/11/2016									
8/12/2016								0.0009 (J)	
8/16/2016							0.0091		
8/22/2016		<0.005							
10/3/2016	<0.005								
10/4/2016		<0.005				<0.005			
10/6/2016								<0.005	
10/7/2016							0.0074		
11/29/2016	0.0023 (J)								
12/1/2016		<0.005				<0.005			
12/5/2016								<0.005	
12/6/2016							0.0044 (J)		
1/10/2017		<0.005							
2/13/2017	<0.005								
2/14/2017		<0.005				<0.005			
2/15/2017								<0.005	
2/16/2017							0.0081		
4/13/2017	0.0017 (J)					0.0007 (J)			
4/14/2017		0.0006 (J)							
4/18/2017							0.0084	0.0009 (J)	
5/25/2017	0.0015 (J)	0.0008 (J)				0.0013 (J)			
5/30/2017									
6/2/2017							0.008	0.0015 (J)	
7/7/2017	0.001 (J)					<0.005			
7/10/2017		0.0008 (J)							
7/12/2017							0.0063		
7/13/2017								0.0006 (J)	
7/14/2017									
3/26/2018	0.0019 (J)	0.00066 (J)							
3/27/2018							0.0064		
3/28/2018								0.0015 (J)	
6/12/2018	0.0013 (J)	0.00059 (J)							
6/14/2018							0.0075	0.00096 (J)	
10/16/2018	0.00075 (J)	<0.005				0.00095 (J)			
10/17/2018								<0.005	
10/18/2018							0.0056		
2/25/2019	<0.005								
2/27/2019		0.0011 (J)							
2/28/2019							0.0058	<0.005	
4/1/2019	0.00049 (J)	0.00019 (J)						0.00028 (J)	
4/2/2019						0.00032 (J)	0.0057		
4/3/2019			0.002 (J)						
9/23/2019	0.00095 (J)	0.00053 (J)				0.0012 (J)			
9/25/2019							0.0058	0.00085 (J)	
9/26/2019									
9/27/2019			0.0023 (J)						
2/18/2020	0.002 (J)					0.0019 (J)			
2/19/2020		0.0012 (J)							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							0.0067		
2/21/2020			0.0015 (J)						
2/24/2020								0.00039 (J)	
3/18/2020	<0.005	<0.005							
3/19/2020						<0.005		0.00036 (J)	
3/20/2020			0.0024 (J)						
3/23/2020							0.0049 (J)		
5/22/2020				0.00059 (J)					0.001 (J)
5/25/2020					0.0025 (J)				
6/23/2020				<0.005	0.01				<0.005
7/28/2020				0.00081 (J)	0.0039 (J)				0.0011 (J)
9/2/2020				<0.005					<0.005
9/3/2020					0.0018 (J)				
9/23/2020	<0.005	<0.005				<0.005			
9/24/2020							0.006		
9/25/2020			0.0017 (J)					<0.005	
10/1/2020				<0.005	0.0014 (J)				<0.005
11/10/2020				<0.005	<0.005				<0.005
12/15/2020				<0.005	<0.005				<0.005
1/20/2021				<0.005	<0.005				<0.005
2/16/2021	<0.005	<0.005							
2/17/2021				<0.005	<0.005				
2/18/2021						0.0011 (J)	0.0054		<0.005
2/19/2021			<0.005					0.0011 (J)	
3/23/2021		<0.005							
3/24/2021								0.002 (J)	0.002 (J)
3/25/2021				0.0014 (J)	0.0042 (J)				
3/26/2021	<0.005								
3/30/2021							0.0053		
3/31/2021						<0.005			
4/1/2021			0.0013 (J)						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16	
6/6/2016	
6/7/2016	<0.005
8/9/2016	
8/10/2016	
8/11/2016	<0.005
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.005
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.005
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.005
4/13/2017	
4/14/2017	
4/18/2017	0.0007 (J)
5/25/2017	
5/30/2017	0.0008 (J)
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.0008 (J)
3/26/2018	
3/27/2018	0.0014 (J)
3/28/2018	
6/12/2018	0.00073 (J)
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	<0.005
2/25/2019	<0.005
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.0003 (J)
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.00074 (J)
9/27/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	0.00042 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	<0.005
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	<0.005
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	<0.005
2/19/2021	
3/23/2021	
3/24/2021	0.0013 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.005								
6/8/2016		<0.005	0.00046 (J)	0.0011 (J)	0.0015	0.0012 (J)			0.0037
6/9/2016							0.0012 (J)	0.0016	
8/11/2016	<0.005								
8/12/2016		<0.005	0.0008 (J)	0.0017 (J)					
8/15/2016									0.003 (J)
8/18/2016					<0.005	0.0022 (J)	0.003 (J)	0.0054	
10/7/2016	<0.005	<0.005	<0.005						
10/10/2016				<0.005	<0.005	0.002 (J)	0.0021 (J)	0.0079	0.0026 (J)
12/6/2016	<0.005	<0.005							
12/7/2016			<0.005	<0.005			0.0023 (J)	0.0121	
12/8/2016					<0.005	<0.005			<0.005
1/23/2017									
2/7/2017									
2/16/2017	<0.005	<0.005	<0.005						
2/17/2017				<0.005	<0.005	0.0023 (J)			
2/20/2017							0.0025 (J)	0.0063	0.0029 (J)
3/27/2017									
4/17/2017									
4/19/2017	0.0012 (J)	0.0013 (J)	0.0015 (J)	0.002 (J)	0.002 (J)		0.0032 (J)	0.0051	
4/20/2017						0.0028 (J)			0.0024 (J)
5/22/2017									
5/30/2017	0.0006 (J)								
6/1/2017		0.0005 (J)	0.0008 (J)	0.0017 (J)	0.0011 (J)				0.0025 (J)
6/5/2017						0.0035 (J)	0.0043 (J)	0.0072	
7/11/2017									
7/14/2017	<0.005	<0.005	0.0006 (J)						
7/17/2017							0.0017 (J)	0.0031 (J)	0.0021 (J)
7/18/2017				0.0018 (J)	0.0015 (J)				
7/19/2017						0.0028 (J)			
8/23/2017									
3/26/2018									
3/27/2018	0.00076 (J)	0.00066 (J)	0.00082 (J)						
3/28/2018				0.0018 (J)	0.0012 (J)				0.0019 (J)
3/29/2018						0.0037 (J)	0.0028 (J)	0.0075 (J)	
6/13/2018				0.0015 (J)			0.0019 (J)	0.0045 (J)	
6/14/2018	<0.005	<0.005			0.00087 (J)	0.0027 (J)			0.0022 (J)
6/15/2018			0.00074 (J)						
10/17/2018	<0.005								
10/18/2018		<0.005							
10/19/2018			<0.005		0.00059 (J)				
10/22/2018				<0.005		0.0016 (J)	0.0015 (J)	0.0027 (J)	0.0026 (J)
2/27/2019	0.001 (J)	0.00083 (J)		0.0014 (J)					
3/1/2019			<0.005			0.0011 (J)	0.0023 (J)	0.0032 (J)	0.0022 (J)
4/2/2019	0.00024 (J)	0.00015 (J)							
4/3/2019			0.00017 (J)	0.00027 (J)	0.00038 (J)	0.0021 (J)	0.00093 (J)	0.0019 (J)	
4/4/2019									0.0016 (J)
9/26/2019	0.0008 (J)	0.00046 (J)	0.00067 (J)	0.00087 (J)					
9/27/2019						0.0013 (J)	0.00096 (J)		
9/30/2019					<0.005			0.0027 (J)	0.002 (J)
2/24/2020	<0.005	<0.005	<0.005	0.00057 (J)					
2/25/2020						0.0014 (J)	0.0012 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/26/2020					0.00047 (J)			0.0013 (J)	0.0018 (J)
3/19/2020	<0.005								
3/20/2020		<0.005	<0.005		<0.005	0.0015 (J)			
3/23/2020				<0.005			0.0027 (J)		
3/24/2020									0.0013 (J)
3/25/2020								<0.005	
9/24/2020	<0.005	<0.005			<0.005	0.0019 (J)	0.001 (J)		
9/25/2020								0.0023 (J)	
9/28/2020			<0.005	<0.005					0.0028 (J)
2/18/2021	<0.005	<0.005	<0.005	0.0016 (J)					
2/19/2021					0.00079 (J)	0.0039 (J)	0.0049 (J)	0.0054	
2/23/2021									0.004 (J)
3/8/2021									
3/24/2021	0.0017 (J)	0.0014 (J)							
3/25/2021									
3/26/2021			<0.005				<0.005	<0.005	0.0025 (J)
3/29/2021				<0.005	<0.005	<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	<0.005
2/7/2017	<0.005
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0019 (J)
4/17/2017	0.0017 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0034 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0039 (J)
7/11/2017	0.0016 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.001 (J)
3/26/2018	0.0015 (J)
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.00089 (J)
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.00064 (J)
2/27/2019	
3/1/2019	<0.005
4/2/2019	0.00024 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.00042 (J)
9/30/2019	
2/24/2020	
2/25/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
2/26/2020	0.00053 (J)
3/19/2020	
3/20/2020	
3/23/2020	<0.005
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.005
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.005
3/24/2021	
3/25/2021	0.0015 (J)
3/26/2021	
3/29/2021	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					0.00082 (J)				
10/18/2018	0.0034 (J)								
10/19/2018			0.013						
10/22/2018		0.00076 (J)		0.0019 (J)					
1/14/2019			0.017						
3/4/2019			0.02						
4/2/2019					0.00039 (J)				
4/4/2019	0.0036 (J)		0.015	0.0018 (J)					
4/5/2019		0.00093 (J)							
9/24/2019	0.0055		0.016						
9/26/2019		0.0018 (J)		0.0035 (J)					
9/27/2019					0.00064 (J)				
2/25/2020				0.0013 (J)		0.04			
2/26/2020	0.0037 (J)				<0.005				
2/27/2020		0.00081 (J)	0.017				0.0021 (J)	0.00055 (J)	
2/28/2020									0.00062 (J)
3/23/2020	0.0054				<0.005				
3/24/2020		0.0017 (J)	0.02			0.028	0.0054	<0.005	
3/25/2020				0.00046 (J)					0.00051 (J)
9/2/2020							0.0012 (J)		
9/25/2020		0.00093 (J)		0.0021 (J)		0.033			
9/28/2020	0.0044 (J)		0.018		<0.005				
9/29/2020							<0.005	<0.005	
2/19/2021			0.015						
2/22/2021	0.0049 (J)			0.0034 (J)		0.019		0.0026 (J)	0.0024 (J)
2/23/2021		0.0032 (J)							
3/8/2021					0.00096 (J)				
3/9/2021							0.0021 (J)		
3/25/2021					0.0021 (J)				
3/26/2021				0.002 (J)		0.013			
3/29/2021	0.0038 (J)						0.0019 (J)		
3/30/2021		<0.005	0.016						<0.005
3/31/2021							<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
1/14/2019	
3/4/2019	
4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.00092 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.0033 (J)
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.0017 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						0.0022			
6/7/2016					0.00018 (J)				
6/8/2016				0.0024					
8/10/2016					<0.005				
8/11/2016				0.0024 (J)		0.0028 (J)			
10/4/2016					<0.005				
10/5/2016						0.002 (J)			
10/6/2016				<0.005					
12/2/2016					<0.005				
12/5/2016						<0.005			
12/6/2016				<0.005					
2/14/2017					<0.005				
2/15/2017				0.003 (J)		0.0033 (J)			
4/14/2017					0.0007 (J)				
4/17/2017						0.0028 (J)			
4/18/2017				0.0029 (J)					
5/26/2017					0.0008 (J)	0.0035 (J)			
6/2/2017				0.0031 (J)					
7/10/2017					0.0011 (J)				
7/11/2017						0.0033 (J)			
7/14/2017				0.0017 (J)					
3/26/2018					0.0009 (J)				
3/27/2018				0.0028 (J)		0.0021 (J)			
6/12/2018					0.00065 (J)	0.0015 (J)			
6/13/2018				0.0023 (J)					
10/16/2018					0.00064 (J)				
10/17/2018						0.0035 (J)			
10/18/2018				0.0015 (J)					
2/25/2019					<0.005				
2/28/2019				0.0011 (J)					
4/1/2019					0.00041 (J)	0.0026 (J)			
4/2/2019				0.0016 (J)					
9/24/2019				0.0031 (J)	0.00047 (J)	0.0033 (J)			
2/19/2020					0.0011 (J)				
2/20/2020						0.0019 (J)			
2/21/2020				0.0018 (J)					
3/18/2020					0.00042 (J)				
3/19/2020				0.0018 (J)		0.0014 (J)			
9/3/2020	0.0023 (J)	0.00099 (J)	0.0033 (J)						
9/23/2020					<0.005				
9/24/2020						0.0021 (J)			
9/25/2020				0.0025 (J)					
1/28/2021							0.0012 (J)	0.00099 (J)	
2/16/2021					<0.005				
2/17/2021						0.0019 (J)			
2/18/2021			0.0078	0.0026 (J)					
2/22/2021	0.0068								
2/23/2021							0.0048 (J)	0.0028 (J)	
3/8/2021		0.0013 (J)							
3/24/2021					0.0012 (J)	0.0025 (J)			
3/29/2021		0.001 (J)							
3/30/2021				0.0017 (J)			0.0065 (J)	0.001 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 0.0032 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.2					0.015			
6/7/2016							0.091	0.027	
8/9/2016	0.188								
8/10/2016						0.0142			
8/11/2016									
8/12/2016								0.026	
8/16/2016							0.0667		
8/22/2016		0.0094 (J)							
10/3/2016	0.191								
10/4/2016		0.0188				0.0137			
10/6/2016								0.0308	
10/7/2016							0.0631		
11/29/2016	0.201								
12/1/2016		0.0334				0.0144			
12/5/2016								0.0258	
12/6/2016							0.0659		
1/10/2017		0.0306							
2/13/2017	0.218								
2/14/2017		0.0247				0.0114			
2/15/2017								0.029	
2/16/2017							0.0621		
4/13/2017	0.19					0.0115			
4/14/2017		0.0231							
4/18/2017							0.0545	0.0294	
5/25/2017	0.193	0.0235				0.0122			
5/30/2017									
6/2/2017							0.0555	0.0354	
7/7/2017	0.148					0.012			
7/10/2017		0.0207							
7/12/2017							0.0572		
7/13/2017								0.0329	
7/14/2017									
3/26/2018	0.17	0.016							
3/27/2018							0.051		
3/28/2018								0.034	
6/12/2018	0.18	0.018							
6/14/2018							0.053	0.032	
10/16/2018	0.17	0.016				0.011			
10/17/2018								0.033	
10/18/2018							0.053		
2/25/2019	0.16								
2/27/2019		0.013							
2/28/2019							0.053	0.033	
4/1/2019	0.16	0.014						0.023	
4/2/2019						0.011	0.045		
4/3/2019			0.025						
9/23/2019	0.21	0.016				0.012			
9/25/2019							0.047	0.035	
9/26/2019									
9/27/2019			0.035						
2/18/2020	0.15					0.012			
2/19/2020		0.013							

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							0.049		
2/21/2020			0.03						
2/24/2020								0.033	
3/18/2020	0.14	0.013							
3/19/2020						0.013		0.034	
3/20/2020			0.033						
3/23/2020							0.042		
5/22/2020				0.046					0.036
5/25/2020					0.12				
6/23/2020				0.065	0.067				0.029
7/28/2020				0.081	0.098				0.049
9/2/2020				0.058					0.04
9/3/2020					0.067				
9/23/2020	0.14	0.014				0.01			
9/24/2020							0.041		
9/25/2020			0.028					0.038	
10/1/2020				0.058	0.073				0.039
11/10/2020				0.057	0.071				0.037
12/15/2020				0.059	0.073				0.042
1/20/2021				0.058	0.071				0.042
2/16/2021	0.15	0.013							
2/17/2021				0.06	0.064				
2/18/2021						0.012	0.039		0.036
2/19/2021			0.03					0.043	
3/23/2021		0.013							
3/24/2021								0.039	0.032
3/25/2021				0.057	0.091				
3/26/2021	0.14								
3/30/2021							0.041		
3/31/2021						0.052			
4/1/2021			0.035						

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	0.027
8/9/2016	
8/10/2016	
8/11/2016	0.0292
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.0295
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	0.0367
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.0315
4/13/2017	
4/14/2017	
4/18/2017	0.0272
5/25/2017	
5/30/2017	0.0316
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.029
3/26/2018	
3/27/2018	0.027
3/28/2018	
6/12/2018	0.029
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	0.026
2/25/2019	0.028
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.025
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.031
9/27/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	0.026
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.027
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.028
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.028
2/19/2021	
3/23/2021	
3/24/2021	0.028
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	0.017								
6/8/2016		0.039	0.036	0.036	0.054	0.092			0.038
6/9/2016							0.11	0.14	
8/11/2016	0.0152								
8/12/2016		0.031	0.0412	0.0283					
8/15/2016									0.0321
8/18/2016					0.0479	0.0953	0.0893	0.113	
10/7/2016	0.0225	0.0427	0.0427						
10/10/2016				0.0288	0.0433	0.0954	0.0839	0.0888	0.0283
12/6/2016	0.0171	0.0398							
12/7/2016			0.0338	0.0279			0.0912	0.0289	
12/8/2016					0.0474	0.0991			0.0294
1/23/2017									
2/7/2017									
2/16/2017	0.0187	0.0309	0.0407						
2/17/2017				0.0316	0.0483	0.0927			
2/20/2017							0.0813	0.0999	0.0275
3/27/2017									
4/17/2017									
4/19/2017	0.0183	0.0325	0.042	0.0367	0.0486		0.087	0.114	
4/20/2017						0.086			0.0279
5/22/2017									
5/30/2017	0.0179								
6/1/2017		0.0331	0.0341	0.0361	0.0468				0.0313
6/5/2017						0.0875	0.084	0.135	
7/11/2017									
7/14/2017	0.0191	0.0349	0.0405						
7/17/2017							0.0809	0.134	0.0251
7/18/2017				0.0346	0.0494				
7/19/2017						0.0877			
8/23/2017									
3/26/2018									
3/27/2018	0.015	0.027	0.029						
3/28/2018				0.03	0.043				0.018
3/29/2018						0.088	0.085	0.08	
6/13/2018				0.031			0.091	0.1	
6/14/2018	0.016	0.032			0.042	0.093			0.019
6/15/2018			0.032						
10/17/2018	0.015								
10/18/2018		0.033							
10/19/2018			0.037		0.038				
10/22/2018				0.03		0.088	0.087	0.1	0.018
2/27/2019	0.014	0.027		0.032					
3/1/2019			0.028			0.087	0.097	0.12	0.021
4/2/2019	0.015	0.028							
4/3/2019			0.033	0.029	0.033	0.082	0.087	0.095	
4/4/2019									0.016
9/26/2019	0.023	0.042	0.049	0.032					
9/27/2019						0.095	0.11		
9/30/2019					0.036			0.098	0.016
2/24/2020	0.014	0.028	0.024	0.033					
2/25/2020						0.062	0.12		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/26/2020					0.024			0.1	0.015
3/19/2020	0.017								
3/20/2020		0.031	0.034		0.03	0.075			
3/23/2020				0.032			0.11		
3/24/2020									0.015
3/25/2020								0.096	
9/24/2020	0.022	0.031			0.031	0.093	0.12		
9/25/2020								0.088	
9/28/2020			0.03	0.032					0.016
2/18/2021	0.017	0.034	0.026	0.039					
2/19/2021					0.03	0.086	0.12	0.081	
2/23/2021									0.019
3/8/2021									
3/24/2021	0.018	0.031							
3/25/2021									
3/26/2021			0.028				0.12	0.075	0.018
3/29/2021				0.033	0.025	0.079			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.237
2/7/2017	0.191
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.197
4/17/2017	0.192
4/19/2017	
4/20/2017	
5/22/2017	0.197
5/30/2017	
6/1/2017	
6/5/2017	0.201
7/11/2017	0.179
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.15
3/26/2018	0.1
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.087
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.1
2/27/2019	
3/1/2019	0.078
4/2/2019	0.075
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.08
9/30/2019	
2/24/2020	
2/25/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
2/26/2020	0.062
3/19/2020	
3/20/2020	
3/23/2020	0.075
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	0.07
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.074
3/24/2021	
3/25/2021	0.06
3/26/2021	
3/29/2021	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.046
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.053
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.058

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						0.034			
6/7/2016					0.0051				
6/8/2016				0.048					
8/10/2016					0.0264				
8/11/2016				0.0428		0.0305			
10/4/2016					0.0316				
10/5/2016						0.0289			
10/6/2016				0.0404					
12/2/2016					0.026				
12/5/2016						0.0269			
12/6/2016				0.0385					
2/14/2017					0.0299				
2/15/2017				0.039		0.0299			
4/14/2017					0.0275				
4/17/2017						0.0318			
4/18/2017				0.0392					
5/26/2017					0.0328	0.0341			
6/2/2017				0.0407					
7/10/2017					0.0305				
7/11/2017						0.0355			
7/14/2017				0.0394					
3/26/2018					0.029				
3/27/2018				0.039		0.026			
6/12/2018					0.031	0.024			
6/13/2018				0.038					
10/16/2018					0.034				
10/17/2018						0.037			
10/18/2018				0.037					
2/25/2019					0.03				
2/28/2019				0.041					
4/1/2019					0.025	0.027			
4/2/2019				0.031					
9/24/2019				0.035	0.03	0.035			
2/19/2020					0.032				
2/20/2020						0.025			
2/21/2020				0.03					
3/18/2020					0.028				
3/19/2020				0.031		0.028			
9/3/2020	0.087	0.083	0.02						
9/23/2020					0.029				
9/24/2020						0.031			
9/25/2020				0.03					
1/28/2021							0.061	0.076	
2/16/2021					0.028				
2/17/2021						0.03			
2/18/2021			0.026	0.031					
2/22/2021	0.13								
2/23/2021							0.054	0.095	
3/8/2021		0.068							
3/24/2021					0.027	0.026			
3/29/2021		0.065							
3/30/2021				0.035			0.051	0.084	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Barium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 0.033

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.0005					<0.0005			
6/7/2016							<0.0005	<0.0005	
8/9/2016	<0.0005								
8/10/2016						<0.0005			
8/11/2016									
8/12/2016								<0.0005	
8/16/2016							<0.0005		
8/22/2016		<0.0005							
10/3/2016	<0.0005								
10/4/2016		<0.0005				<0.0005			
10/6/2016								<0.0005	
10/7/2016							<0.0005		
11/29/2016	<0.0005								
12/1/2016		<0.0005				<0.0005			
12/5/2016								<0.0005	
12/6/2016							<0.0005		
1/10/2017		<0.0005							
2/13/2017	<0.0005								
2/14/2017		<0.0005				<0.0005			
2/15/2017								<0.0005	
2/16/2017							<0.0005		
4/13/2017	<0.0005					<0.0005			
4/14/2017		<0.0005							
4/18/2017							<0.0005	<0.0005	
5/25/2017	<0.0005	<0.0005				<0.0005			
5/30/2017									
6/2/2017							<0.0005	<0.0005	
7/7/2017	<0.0005					<0.0005			
7/10/2017		<0.0005							
7/12/2017							<0.0005		
7/13/2017								<0.0005	
7/14/2017									
3/26/2018	<0.0005	<0.0005							
3/27/2018							<0.0005		
3/28/2018								<0.0005	
2/25/2019	<0.0005								
2/27/2019		<0.0005							
2/28/2019							<0.0005	7.6E-05 (J)	
4/1/2019	<0.0005	<0.0005						<0.0005	
4/2/2019						<0.0005	<0.0005		
4/3/2019			<0.0005						
9/23/2019	<0.0005	<0.0005				<0.0005			
9/25/2019							<0.0005	<0.0005	
9/26/2019									
9/27/2019			<0.0005						
2/18/2020	<0.0005					<0.0005			
2/19/2020		<0.0005							
2/20/2020							<0.0005		
2/21/2020			<0.0005						
2/24/2020								<0.0005	
3/18/2020	<0.0005	<0.0005							
3/19/2020						<0.0005		<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			<0.0005						
3/23/2020							<0.0005		
5/22/2020				<0.0005					<0.0005
5/25/2020					<0.0005				
6/23/2020				<0.0005	<0.0005				<0.0005
7/28/2020				<0.0005	<0.0005				<0.0005
9/2/2020				<0.0005					<0.0005
9/3/2020					<0.0005				
9/23/2020	<0.0005	<0.0005				<0.0005			
9/24/2020							<0.0005		
9/25/2020			<0.0005					<0.0005	
10/1/2020				<0.0005	5.7E-05 (J)				<0.0005
11/10/2020				<0.0005	<0.0005				<0.0005
12/15/2020				<0.0005	<0.0005				<0.0005
1/20/2021				<0.0005	<0.0005				<0.0005
2/16/2021	<0.0005	<0.0005							
2/17/2021				<0.0005	<0.0005				
2/18/2021						<0.0005	<0.0005		<0.0005
2/19/2021			<0.0005					4.6E-05 (J)	
3/23/2021		<0.0005							
3/24/2021								<0.0005	<0.0005
3/25/2021				<0.0005	<0.0005				
3/26/2021	<0.0005								
3/30/2021							<0.0005		
3/31/2021						<0.0005			
4/1/2021			<0.0005						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	<0.0005
8/9/2016	
8/10/2016	
8/11/2016	<0.0005
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.0005
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.0005
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.0005
4/13/2017	
4/14/2017	
4/18/2017	<0.0005
5/25/2017	
5/30/2017	<0.0005
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.0005
3/26/2018	
3/27/2018	<0.0005
3/28/2018	
2/25/2019	8.7E-05 (J)
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	6.3E-05 (J)
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	8E-05 (J)
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	0.00012 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.00012 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.00011 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.00013 (J)
2/19/2021	
3/23/2021	
3/24/2021	0.00014 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.0005								
6/8/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
6/9/2016							<0.0005	<0.0005	
8/11/2016	<0.0005								
8/12/2016		<0.0005	<0.0005	<0.0005					
8/15/2016									<0.0005
8/18/2016					<0.0005	<0.0005	<0.0005	<0.0005	
10/7/2016	<0.0005	<0.0005	<0.0005						
10/10/2016				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
12/6/2016	<0.0005	<0.0005							
12/7/2016			<0.0005	<0.0005			<0.0005	<0.0005	
12/8/2016					<0.0005	<0.0005			<0.0005
1/23/2017									
2/7/2017									
2/16/2017	<0.0005	<0.0005	<0.0005						
2/17/2017				<0.0005	<0.0005	<0.0005			
2/20/2017							<0.0005	<0.0005	<0.0005
3/27/2017									
4/17/2017									
4/19/2017	<0.0005	<0.0005	8E-05 (J)	<0.0005	<0.0005		<0.0005	<0.0005	
4/20/2017						<0.0005			<0.0005
5/22/2017									
5/30/2017	<0.0005								
6/1/2017		9E-05 (J)	7E-05 (J)	<0.0005	<0.0005				<0.0005
6/5/2017						<0.0005	<0.0005	<0.0005	
7/11/2017									
7/14/2017	<0.0005	<0.0005	<0.0005						
7/17/2017							<0.0005	<0.0005	<0.0005
7/18/2017				<0.0005	<0.0005				
7/19/2017						<0.0005			
8/23/2017									
3/26/2018									
3/27/2018	<0.0005	<0.0005	<0.0005						
3/28/2018				<0.0005	<0.0005				<0.0005
3/29/2018						<0.0005	<0.0005	<0.0005	
2/27/2019	<0.0005	0.00011 (J)		<0.0005					
3/1/2019			<0.0005			0.00012 (J)	<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	5.2E-05 (J)							
4/3/2019			<0.0005	<0.0005	<0.0005	6.7E-05 (J)	<0.0005	<0.0005	
4/4/2019									<0.0005
9/26/2019	<0.0005	<0.0005	<0.0005	<0.0005					
9/27/2019						9.9E-05 (J)	<0.0005		
9/30/2019					<0.0005			9.3E-05 (J)	<0.0005
2/24/2020	<0.0005	<0.0005	<0.0005	<0.0005					
2/25/2020						9.3E-05 (J)	<0.0005		
2/26/2020					<0.0005			0.0001 (J)	<0.0005
3/19/2020	<0.0005								
3/20/2020		7.6E-05 (J)	<0.0005		<0.0005	8.8E-05 (J)			
3/23/2020				<0.0005			<0.0005		
3/24/2020									<0.0005
3/25/2020								0.0001 (J)	
9/24/2020	5.4E-05 (J)	<0.0005			<0.0005	0.00012 (J)	5.4E-05 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/25/2020								0.00013 (J)	
9/28/2020			8.8E-05 (J)	<0.0005					<0.0005
2/18/2021	6.5E-05 (J)	6.8E-05 (J)	5.2E-05 (J)	<0.0005					
2/19/2021					<0.0005	0.00013 (J)	<0.0005	0.00018 (J)	
2/23/2021									<0.0005
3/8/2021									
3/24/2021	<0.0005	6.1E-05 (J)							
3/25/2021									
3/26/2021			5.5E-05 (J)				<0.0005	<0.0005	<0.0005
3/29/2021				<0.0005	<0.0005	0.00011 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	<0.0005
2/7/2017	<0.0005
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	<0.0005
4/17/2017	<0.0005
4/19/2017	
4/20/2017	
5/22/2017	<0.0005
5/30/2017	
6/1/2017	
6/5/2017	<0.0005
7/11/2017	<0.0005
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	<0.0005
3/26/2018	<0.0005
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	<0.0005
4/2/2019	<0.0005
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	<0.0005
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	<0.0005
3/19/2020	
3/20/2020	
3/23/2020	<0.0005
3/24/2020	
3/25/2020	
9/24/2020	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
9/25/2020	<0.0005
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.0005
3/24/2021	
3/25/2021	<0.0005
3/26/2021	
3/29/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
4/2/2019					7E-05 (J)				
4/4/2019	<0.0005		<0.0005	<0.0005					
4/5/2019		<0.0005							
9/24/2019	<0.0005		<0.0005						
9/26/2019		<0.0005		<0.0005					
9/27/2019					<0.0005				
2/25/2020				<0.0005		<0.0005			
2/26/2020	<0.0005				<0.0005				
2/27/2020		<0.0005	<0.0005				8.8E-05 (J)	<0.0005	
2/28/2020									<0.0005
3/23/2020	<0.0005				<0.0005				
3/24/2020		<0.0005	<0.0005			<0.0005	<0.0005	7.9E-05 (J)	
3/25/2020				<0.0005					<0.0005
9/2/2020							6E-05 (J)		
9/25/2020		<0.0005		<0.0005		<0.0005			
9/28/2020	<0.0005		<0.0005		<0.0005				
9/29/2020								<0.0005	<0.0005
2/19/2021			<0.0005						
2/22/2021	<0.0005			<0.0005		<0.0005		<0.0005	<0.0005
2/23/2021		<0.0005							
3/8/2021					<0.0005				
3/9/2021							<0.0005		
3/25/2021					<0.0005				
3/26/2021				<0.0005		<0.0005			
3/29/2021	<0.0005						<0.0005		
3/30/2021		<0.0005	<0.0005						<0.0005
3/31/2021								<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	<0.0005
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.0005
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016	
6/7/2016	
6/8/2016	
8/10/2016	
8/11/2016	
10/4/2016	
10/5/2016	
10/6/2016	
12/2/2016	
12/5/2016	
12/6/2016	
2/14/2017	
2/15/2017	
4/14/2017	
4/17/2017	
4/18/2017	
5/26/2017	
6/2/2017	
7/10/2017	
7/11/2017	
7/14/2017	
3/26/2018	
3/27/2018	
2/25/2019	
2/28/2019	
4/1/2019	
4/2/2019	
9/24/2019	
2/19/2020	
2/20/2020	
2/21/2020	
3/18/2020	
3/19/2020	
9/3/2020	
9/23/2020	
9/24/2020	
9/25/2020	
1/28/2021	
2/16/2021	
2/17/2021	
2/18/2021	
2/22/2021	
2/23/2021	
3/8/2021	
3/24/2021	
3/29/2021	
3/30/2021	
3/31/2021	
4/1/2021	
4/19/2021	<0.0005

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.04					<0.04			
6/7/2016							0.37	1.1	
8/9/2016	0.0336 (J)								
8/10/2016						0.0876 (J)			
8/11/2016									
8/12/2016								0.867	
8/16/2016							0.525		
8/22/2016		0.0132 (J)							
10/3/2016	0.0226 (J)								
10/4/2016		0.0065 (J)				0.0145 (J)			
10/6/2016								0.863	
10/7/2016							0.492		
11/29/2016	0.0085 (J)								
12/1/2016		<0.04				0.0146 (J)			
12/5/2016								0.879	
12/6/2016							0.515		
1/10/2017		<0.04							
2/13/2017	<0.04								
2/14/2017		<0.04				0.0114 (J)			
2/15/2017								0.886	
2/16/2017							0.482		
4/13/2017	0.0084 (J)					0.0195 (J)			
4/14/2017		<0.04							
4/18/2017							0.515	0.941	
5/25/2017	0.01 (J)	<0.04				0.0179 (J)			
5/30/2017									
6/2/2017							0.513	1.02	
7/7/2017	0.009 (J)					0.019 (J)			
7/10/2017		<0.04							
7/12/2017							0.508		
7/13/2017								0.945	
7/14/2017									
10/9/2017	0.0063 (J)					0.0271 (J)			
10/10/2017		<0.04						0.908	
10/11/2017							0.486		
6/12/2018	0.0058 (J)	0.0056 (J)							
6/14/2018							0.54	1	
10/16/2018	0.0066 (J)	0.0071 (J)				0.0088 (J)			
10/17/2018								1	
10/18/2018							0.49		
4/1/2019	0.0076 (J)	0.0048 (J)						0.86 (J)	
4/2/2019						0.037 (J)	0.51 (J)		
4/3/2019			0.66 (o)						
5/2/2019	0.015 (J)								
7/9/2019			0.027 (J)						
9/23/2019	0.0069 (J)	0.0052 (J)				0.0099 (J)			
9/25/2019							0.49	1.1	
9/26/2019									
9/27/2019			0.033 (J)						
2/18/2020						0.017 (J)			
2/19/2020		0.0057 (J)							
2/21/2020			0.02 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/18/2020	0.016 (J)	0.0054 (J)							
3/19/2020						0.021 (J)		1	
3/20/2020			0.043 (J)						
3/23/2020							0.5		
5/22/2020				0.024 (J)					0.54
5/25/2020					0.018 (J)				
6/23/2020				0.019 (J)	0.015 (J)				0.45
7/28/2020				0.03 (J)	0.024 (J)				0.97
9/2/2020				0.022 (J)					1.1
9/3/2020					0.022 (J)				
9/23/2020	0.0086 (J)	<0.04				0.0081 (J)			
9/24/2020							0.47		
9/25/2020			0.02 (J)					1	
10/1/2020				0.025 (J)	0.027 (J)				1.2
11/10/2020				0.025 (J)	0.032 (J)				1.1
12/15/2020				0.031 (J)	0.034 (J)				1.2
1/20/2021				0.022 (J)	0.034 (J)				1.1
3/23/2021		<0.04							
3/24/2021								1.2	0.6
3/25/2021				0.017 (J)	0.026 (J)				
3/26/2021	0.0094 (J)								
3/30/2021							0.56		
3/31/2021						0.013 (J)			
4/1/2021			0.0069 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	1.7
8/9/2016	
8/10/2016	
8/11/2016	1.37
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	1.49
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	1.65
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	1.73
4/13/2017	
4/14/2017	
4/18/2017	1.77
5/25/2017	
5/30/2017	1.52
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	1.26
10/9/2017	
10/10/2017	
10/11/2017	1.36
6/12/2018	1.3
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	1.3
4/1/2019	
4/2/2019	1.1
4/3/2019	
5/2/2019	
7/9/2019	
9/23/2019	
9/25/2019	
9/26/2019	1.5
9/27/2019	
2/18/2020	
2/19/2020	
2/21/2020	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/18/2020	
3/19/2020	1.3
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	1.3
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
3/23/2021	
3/24/2021	1.3
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	1.5								
6/8/2016		1.2	0.49	2.6	0.12	7.6			0.029 (J)
6/9/2016							12	26	
8/11/2016	1.41								
8/12/2016		0.895	0.647	2.74					
8/15/2016									0.0228 (J)
8/18/2016					0.191	8.37	5.2	22	
10/7/2016	1.76	1.33	0.868						
10/10/2016				3	0.13	9.46	6.13	18.1	0.0305 (J)
12/6/2016	1.79	1.5							
12/7/2016			0.51	3.08			5.7	9.19	
12/8/2016					0.144	11.1			0.0164 (J)
1/23/2017									
2/7/2017									
2/16/2017	1.63	0.753	0.68						
2/17/2017				3.63	0.0685	12.2			
2/20/2017							5.7	31.4	0.0154 (J)
3/27/2017									
4/17/2017									
4/19/2017	1.47	0.762	0.701	4.68	0.0743		8.79	31.4	
4/20/2017						13.3			0.0283 (J)
5/22/2017									
5/30/2017	1.7								
6/1/2017		0.663	0.383	3.57	0.0499				0.0467
6/5/2017						9.19	6.39	29	
7/11/2017									
7/14/2017	1.26	0.787	0.645						
7/17/2017							7.06	33.8	0.0171 (J)
7/18/2017				3.37	0.0544				
7/19/2017						10.6			
8/23/2017									
10/10/2017									
10/11/2017	1.37	0.889	0.594	3.54			7.18	31.7	0.0141 (J)
10/12/2017					0.0494	12.7			
6/13/2018				3.6			8.3	30.1	
6/14/2018	1.4	0.75			0.035 (J)	11			0.017 (J)
6/15/2018			0.44						
10/17/2018	1.4								
10/18/2018		0.8							
10/19/2018			0.65		0.028 (J)				
10/22/2018				3.6		16.1	9	44.7	0.03 (J)
4/2/2019	0.95 (J)	0.56 (J)							
4/3/2019			0.51	2.6	0.12	7.9	6.5	23.3	
4/4/2019									0.02 (J)
5/2/2019						10.1			
9/26/2019	2.5	1.1	0.96	4.4					
9/27/2019						16.4	12		
9/30/2019					0.04 (J)			36.8	0.038 (J)
2/25/2020						11.2			
2/26/2020									
3/19/2020	1								
3/20/2020		0.53	0.29		0.03 (J)	11.1			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/23/2020				3.5			13		
3/24/2020									0.032 (J)
3/25/2020								34.5	
9/24/2020	1.5	0.72			0.037 (J)	18.8	13.7		
9/25/2020								30.8	
9/28/2020			0.4	3.7					0.049 (J)
3/24/2021	1.1	0.5							
3/25/2021									
3/26/2021			0.24				15.8	31	0.17
3/29/2021				4.1	0.038 (J)	17.3			

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	18.6
2/7/2017	20.4
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	19.1
4/17/2017	21.8
4/19/2017	
4/20/2017	
5/22/2017	26
5/30/2017	
6/1/2017	
6/5/2017	18.6
7/11/2017	25
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	20.2
10/10/2017	17
10/11/2017	
10/12/2017	
6/13/2018	
6/14/2018	
6/15/2018	8.5
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	9.5
4/2/2019	6.1 (J)
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	2.4
9/30/2019	
2/25/2020	
2/26/2020	1.5
3/19/2020	
3/20/2020	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/23/2020	2.4
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	2.1
9/28/2020	
3/24/2021	
3/25/2021	1.1
3/26/2021	
3/29/2021	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
12/16/2019	
2/25/2020	
2/26/2020	
2/27/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	1.1
9/2/2020	0.91
9/25/2020	
9/28/2020	
9/29/2020	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	1.1

Time Series

Constituent: Boron (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
4/1/2019
4/2/2019
9/24/2019
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

0.16

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.0005					<0.0005			
6/7/2016							<0.0005	<0.0005	
8/9/2016	<0.0005								
8/10/2016						<0.0005			
8/11/2016									
8/12/2016								<0.0005	
8/16/2016							<0.0005		
8/22/2016		<0.0005							
10/3/2016	<0.0005								
10/4/2016		<0.0005				<0.0005			
10/6/2016								<0.0005	
10/7/2016							<0.0005		
11/29/2016	<0.0005								
12/1/2016		<0.0005				<0.0005			
12/5/2016								<0.0005	
12/6/2016							<0.0005		
1/10/2017		9E-05 (J)							
2/13/2017	<0.0005								
2/14/2017		<0.0005				<0.0005			
2/15/2017								<0.0005	
2/16/2017							<0.0005		
4/13/2017	<0.0005					<0.0005			
4/14/2017		<0.0005							
4/18/2017							<0.0005	<0.0005	
5/25/2017	<0.0005	<0.0005				<0.0005			
5/30/2017									
6/2/2017							<0.0005	<0.0005	
7/7/2017	<0.0005					<0.0005			
7/10/2017		<0.0005							
7/12/2017							<0.0005		
7/13/2017								<0.0005	
7/14/2017									
3/26/2018	<0.0005	<0.0005							
3/27/2018							<0.0005		
3/28/2018								<0.0005	
6/12/2018	<0.0005	<0.0005							
6/14/2018							<0.0005	<0.0005	
10/16/2018	<0.0005	<0.0005				<0.0005			
10/17/2018								<0.0005	
10/18/2018							<0.0005		
2/25/2019	<0.0005								
2/27/2019		<0.0005							
2/28/2019							<0.0005	<0.0005	
4/1/2019	<0.0005	<0.0005						<0.0005	
4/2/2019						<0.0005	<0.0005		
4/3/2019			<0.0005						
9/23/2019	<0.0005	<0.0005				<0.0005			
9/25/2019							<0.0005	<0.0005	
9/26/2019									
9/27/2019			<0.0005						
2/18/2020	<0.0005					<0.0005			
2/19/2020		<0.0005							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							<0.0005		
2/21/2020			<0.0005						
2/24/2020								<0.0005	
3/18/2020	<0.0005	<0.0005							
3/19/2020						<0.0005		<0.0005	
3/20/2020			<0.0005						
3/23/2020							<0.0005		
5/22/2020				<0.0005					<0.0005
5/25/2020					<0.0005				
6/23/2020				<0.0005	<0.0005				<0.0005
7/28/2020				<0.0005	<0.0005				<0.0005
9/2/2020				<0.0005					0.00014 (J)
9/3/2020					<0.0005				
9/23/2020	<0.0005	<0.0005				<0.0005			
9/24/2020							<0.0005		
9/25/2020			<0.0005					<0.0005	
10/1/2020				<0.0005	<0.0005				0.00019 (J)
11/10/2020				<0.0005	<0.0005				0.00019 (J)
12/15/2020				<0.0005	<0.0005				0.00017
1/20/2021				<0.0005	<0.0005				<0.0005
2/16/2021	<0.0005	<0.0005							
2/17/2021				<0.0005	<0.0005				
2/18/2021						<0.0005	<0.0005		<0.0005
2/19/2021			<0.0005					<0.0005	
3/23/2021		<0.0005							
3/24/2021								<0.0005	0.00016 (J)
3/25/2021				<0.0005	<0.0005				
3/26/2021	0.00018 (J)								
3/30/2021							<0.0005		
3/31/2021						<0.0005			
4/1/2021			<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16	
6/6/2016	
6/7/2016	0.0011 (J)
8/9/2016	
8/10/2016	
8/11/2016	0.0011
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.0012
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	0.0012
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.0015
4/13/2017	
4/14/2017	
4/18/2017	0.0012
5/25/2017	
5/30/2017	0.0011
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.0012
3/26/2018	
3/27/2018	0.0013
3/28/2018	
6/12/2018	0.0011
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	0.0012
2/25/2019	0.0016
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.0014
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.0017 (J)
9/27/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	0.0019 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.0017 (J)
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.0018 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.0018
2/19/2021	
3/23/2021	
3/24/2021	0.0018
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.0005								
6/8/2016		0.00063 (J)	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
6/9/2016							<0.0005	0.00052 (J)	
8/11/2016	0.0001 (J)								
8/12/2016		0.0004 (J)	<0.0005	<0.0005					
8/15/2016									<0.0005
8/18/2016					<0.0005	<0.0005	<0.0005	0.0009 (J)	
10/7/2016	0.0002 (J)	0.0008 (J)	0.0001 (J)						
10/10/2016				<0.0005	<0.0005	<0.0005	<0.0005	0.0017	<0.0005
12/6/2016	0.0001 (J)	0.0006 (J)							
12/7/2016			<0.0005	<0.0005			<0.0005	0.0004 (J)	
12/8/2016					<0.0005	0.0002 (J)			<0.0005
1/23/2017									
2/7/2017									
2/16/2017	0.0001 (J)	0.0002 (J)	<0.0005						
2/17/2017				8E-05 (J)	<0.0005	<0.0005			
2/20/2017							<0.0005	0.0028	<0.0005
3/27/2017									
4/17/2017									
4/19/2017	0.0001 (J)	9E-05 (J)	<0.0005	<0.0005	<0.0005		<0.0005	0.0035	
4/20/2017						<0.0005			<0.0005
5/22/2017									
5/30/2017	0.0002 (J)								
6/1/2017		0.0003 (J)	0.0001 (J)	<0.0005	<0.0005				<0.0005
6/5/2017						<0.0005	<0.0005	0.0035	
7/11/2017									
7/14/2017	0.0002 (J)	0.0002 (J)	<0.0005						
7/17/2017							<0.0005	0.0037	<0.0005
7/18/2017				<0.0005	<0.0005				
7/19/2017						<0.0005			
8/23/2017									
3/26/2018									
3/27/2018	<0.0005	<0.0005	<0.0005						
3/28/2018				<0.0005	<0.0005				<0.0005
3/29/2018						<0.0005	<0.0005	0.0063	
6/13/2018				<0.0005			<0.0005	0.0053	
6/14/2018	0.00015 (J)	<0.0005			<0.0005	<0.0005			<0.0005
6/15/2018			<0.0005						
10/17/2018	<0.0005								
10/18/2018		0.00032 (J)							
10/19/2018			<0.0005		<0.0005				
10/22/2018				<0.0005		<0.0005	<0.0005	0.0053	<0.0005
2/27/2019	<0.0005	<0.0005		<0.0005					
3/1/2019			<0.0005			0.00013 (J)	0.00019 (J)	0.0058	<0.0005
4/2/2019	<0.0005	7.3E-05 (J)							
4/3/2019			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0053	
4/4/2019									<0.0005
9/26/2019	0.00015 (J)	<0.0005	0.0002 (J)	<0.0005					
9/27/2019						<0.0005	<0.0005		
9/30/2019					<0.0005			0.0075	<0.0005
2/24/2020	<0.0005	0.00024 (J)	<0.0005	<0.0005					
2/25/2020						<0.0005	<0.0005		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/26/2020					<0.0005			0.0064	<0.0005
3/19/2020	<0.0005								
3/20/2020		<0.0005	<0.0005		<0.0005	<0.0005			
3/23/2020				<0.0005			<0.0005		
3/24/2020									<0.0005
3/25/2020								0.0082	
9/24/2020	0.00024 (J)	<0.0005			<0.0005	0.00033 (J)	<0.0005		
9/25/2020								0.0081	
9/28/2020			<0.0005	<0.0005					<0.0005
2/18/2021	<0.0005	<0.0005	<0.0005	<0.0005					
2/19/2021					<0.0005	0.00038 (J)	<0.0005	0.0068	
2/23/2021									<0.0005
3/8/2021									
3/24/2021	<0.0005	<0.0005							
3/25/2021									
3/26/2021			<0.0005				<0.0005	0.0062	<0.0005
3/29/2021				<0.0005	<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0003 (J)
2/7/2017	0.0006 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0003 (J)
4/17/2017	0.0002 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0003 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0003 (J)
7/11/2017	0.0005 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0004 (J)
3/26/2018	<0.0005
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.0002 (J)
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	<0.0005
2/27/2019	
3/1/2019	<0.0005
4/2/2019	7.9E-05 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	<0.0005
9/30/2019	
2/24/2020	
2/25/2020	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
2/26/2020	<0.0005
3/19/2020	
3/20/2020	
3/23/2020	<0.0005
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.0005
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.0005
3/24/2021	
3/25/2021	<0.0005
3/26/2021	
3/29/2021	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					<0.0005				
10/18/2018	<0.0005								
10/19/2018			<0.0005						
10/22/2018		<0.0005		<0.0005					
4/2/2019					<0.0005				
4/4/2019	<0.0005		<0.0005	<0.0005					
4/5/2019		<0.0005							
9/24/2019	<0.0005		<0.0005						
9/26/2019		<0.0005		<0.0005					
9/27/2019					<0.0005				
2/25/2020				<0.0005		<0.0005			
2/26/2020	<0.0005				<0.0005				
2/27/2020		<0.0005	<0.0005				0.00081 (J)	<0.0005	
2/28/2020									<0.0005
3/23/2020	<0.0005				<0.0005				
3/24/2020		<0.0005	<0.0005			<0.0005	<0.0005	<0.0005	
3/25/2020				<0.0005					<0.0005
9/2/2020							0.00032 (J)		
9/25/2020		<0.0005		<0.0005		<0.0005			
9/28/2020	<0.0005		<0.0005		<0.0005				
9/29/2020								0.0002 (J)	<0.0005
2/19/2021			<0.0005						
2/22/2021	<0.0005			<0.0005		<0.0005		0.00014 (J)	<0.0005
2/23/2021		<0.0005							
3/8/2021					<0.0005				
3/9/2021							<0.0005		
3/25/2021					<0.0005				
3/26/2021				<0.0005		<0.0005			
3/29/2021	<0.0005						<0.0005		
3/30/2021		<0.0005	<0.0005						<0.0005
3/31/2021								0.00018 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018
10/18/2018
10/19/2018
10/22/2018
4/2/2019
4/4/2019
4/5/2019
9/24/2019
9/26/2019
9/27/2019
2/25/2020
2/26/2020
2/27/2020
2/28/2020
3/23/2020
3/24/2020
3/25/2020
9/2/2020
9/25/2020
9/28/2020
9/29/2020
2/19/2021
2/22/2021
2/23/2021
3/8/2021
3/9/2021
3/25/2021
3/26/2021
3/29/2021
3/30/2021
3/31/2021

<0.0005

<0.0005

<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						<0.0005			
6/7/2016					<0.0005				
6/8/2016				<0.0005					
8/10/2016					<0.0005				
8/11/2016				<0.0005		<0.0005			
10/4/2016					<0.0005				
10/5/2016						<0.0005			
10/6/2016				<0.0005					
12/2/2016					<0.0005				
12/5/2016						<0.0005			
12/6/2016				<0.0005					
2/14/2017					<0.0005				
2/15/2017				<0.0005		<0.0005			
4/14/2017					<0.0005				
4/17/2017						<0.0005			
4/18/2017				<0.0005					
5/26/2017					<0.0005	<0.0005			
6/2/2017				<0.0005					
7/10/2017					<0.0005				
7/11/2017						<0.0005			
7/14/2017				<0.0005					
3/26/2018					<0.0005				
3/27/2018				<0.0005		<0.0005			
6/12/2018				<0.0005	<0.0005	<0.0005			
6/13/2018				<0.0005					
10/16/2018					<0.0005				
10/17/2018						<0.0005			
10/18/2018				<0.0005					
2/25/2019					<0.0005				
2/28/2019				<0.0005					
4/1/2019					<0.0005	<0.0005			
4/2/2019				<0.0005					
9/24/2019				<0.0005	<0.0005	<0.0005			
2/19/2020					<0.0005				
2/20/2020						<0.0005			
2/21/2020				<0.0005					
3/18/2020					<0.0005				
3/19/2020				<0.0005		<0.0005			
9/3/2020	<0.0005	0.0011 (J)	<0.0005						
9/23/2020					<0.0005				
9/24/2020						<0.0005			
9/25/2020				<0.0005					
1/28/2021							0.00031 (J)	0.00025 (J)	
2/16/2021					<0.0005				
2/17/2021						<0.0005			
2/18/2021			<0.0005	<0.0005					
2/22/2021	<0.0005								
2/23/2021							0.00043 (J)	<0.0005	
3/8/2021		0.0003 (J)							
3/24/2021					<0.0005	<0.0005			
3/29/2021		0.00019 (J)							
3/30/2021				<0.0005			0.0007	0.00018 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 <0.0005

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	39					59			
6/7/2016							50	90	
8/9/2016	32.2								
8/10/2016						56			
8/11/2016									
8/12/2016								76.6	
8/16/2016							49.2		
8/22/2016		21.4							
10/3/2016	34.1								
10/4/2016		20.9				51.4			
10/6/2016								78.7	
10/7/2016							52.6		
11/29/2016	29.7								
12/1/2016		19.8				55.9			
12/5/2016								80.9	
12/6/2016							55.4		
1/10/2017		20.4							
2/13/2017	31.2								
2/14/2017		20.9				51.1			
2/15/2017								90.7	
2/16/2017							53.2		
4/13/2017	30.5					53.4			
4/14/2017		20.7 (J)							
4/18/2017							58	94.8	
5/25/2017	33.8	22.8 (J)				59.8			
5/30/2017									
6/2/2017							55.8	108	
7/7/2017	33.1					57.8			
7/10/2017		22.3							
7/12/2017							58.1		
7/13/2017								111	
7/14/2017									
10/9/2017	33.6					58.9			
10/10/2017		4.09						93	
10/11/2017							55.7		
6/12/2018	32.4	20.3 (J)							
6/14/2018							58.4	109	
10/16/2018	34.6	19.4 (J)				55.6			
10/17/2018								110	
10/18/2018							57.8		
4/1/2019	48.2	24.6						94.8	
4/2/2019						64.1	57.8		
4/3/2019			44.9						
5/2/2019	44.8								
9/23/2019	36.3	19.2				57.9			
9/25/2019							58.1	115	
9/26/2019									
9/27/2019			41.2						
2/18/2020						66.3			
2/19/2020		20.8							
2/21/2020			50.1						
3/18/2020	40.1	22.4							

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/19/2020						67.8		120	
3/20/2020			52.2						
3/23/2020							61.1		
5/22/2020				74					73.4
5/25/2020					36.5				
6/23/2020				99.5	39.4				80.1
7/28/2020				96.2	40.3				140
9/2/2020				109					159
9/3/2020					51.8				
9/23/2020	45.2	20.1				67.3			
9/24/2020							58.8		
9/25/2020			51.8					135	
10/1/2020				107	61.9				162
11/10/2020				117	80.3				170
12/15/2020				110	70.3				169
1/20/2021				111	67.5				157
3/23/2021		22.1							
3/24/2021								144	91.9
3/25/2021				109	68.3				
3/26/2021	46.7								
3/30/2021							61.3		
3/31/2021						63.4			
4/1/2021			49.5						

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	120
8/9/2016	
8/10/2016	
8/11/2016	111
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	103
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	117
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	124
4/13/2017	
4/14/2017	
4/18/2017	120
5/25/2017	
5/30/2017	111
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	109
10/9/2017	
10/10/2017	
10/11/2017	109
6/12/2018	104
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	112
4/1/2019	
4/2/2019	117
4/3/2019	
5/2/2019	
9/23/2019	
9/25/2019	
9/26/2019	136
9/27/2019	
2/18/2020	
2/19/2020	
2/21/2020	
3/18/2020	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
3/19/2020	130
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	141
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
3/23/2021	
3/24/2021	140
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	65								
6/8/2016		76	55	200	43	350			32
6/9/2016							300	800	
8/11/2016	61								
8/12/2016		61.7	61.2	196					
8/15/2016									33.1
8/18/2016					38.6	370	290	730	
10/7/2016	71	84.7	70.2						
10/10/2016				198	37.5	375	296	680	41
12/6/2016	68.7	88.1							
12/7/2016			48.6	215			271	387	
12/8/2016					43.4	434			38.5
1/23/2017									
2/7/2017									
2/16/2017	65.5	53.7	64.7						
2/17/2017				221	41	434			
2/20/2017							323	823	40.7
3/27/2017									
4/17/2017									
4/19/2017	68.9	57.1	69.5	240	39.4		298	893 (J)	
4/20/2017						422			40.7
5/22/2017									
5/30/2017	72.6								
6/1/2017		44.8	50.8	286	42.3				44.2
6/5/2017						398	310	1080	
7/11/2017									
7/14/2017	70.6	60	67						
7/17/2017							319	1120	41.9
7/18/2017				244	40.9				
7/19/2017						461			
8/23/2017									
10/10/2017									
10/11/2017	67.3	67	57.3	222			438	1310	41.1
10/12/2017					43.3	515			
6/13/2018				234			385	970	
6/14/2018	65.7	53.1			39.4	482			44.8
6/15/2018			49.7						
10/17/2018	69.7								
10/18/2018		60.4							
10/19/2018			63.1		40.6				
10/22/2018				241		575	424	1150	52.2
4/2/2019	63.9	53.3							
4/3/2019			51.3	220	43.4	458	396	945	
4/4/2019									54.8
5/2/2019						647			
9/26/2019	94.2	91.7	80.8	243					
9/27/2019						658	533		
9/30/2019					43.2			1050	47.8
2/25/2020						445			
2/26/2020									
3/19/2020	68.1								
3/20/2020		49.3	52.1		48.2	514			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/23/2020				253			602		
3/24/2020									49.6
3/25/2020								1100	
9/24/2020	84.9	68.7			42	750	647		
9/25/2020								998	
9/28/2020			50.1	273					50.7
3/24/2021	72	48.2							
3/25/2021									
3/26/2021			46.4				717	821	52.8
3/29/2021				296	46.6	714			

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	372
2/7/2017	351
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	417
4/17/2017	415
4/19/2017	
4/20/2017	
5/22/2017	885
5/30/2017	
6/1/2017	
6/5/2017	413
7/11/2017	449
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	409
10/10/2017	339
10/11/2017	
10/12/2017	
6/13/2018	
6/14/2018	
6/15/2018	198
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	230
4/2/2019	181
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	103
9/30/2019	
2/25/2020	
2/26/2020	85.3
3/19/2020	
3/20/2020	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/23/2020	107
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	93.3
9/28/2020	
3/24/2021	
3/25/2021	81.1
3/26/2021	
3/29/2021	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
12/16/2019	
2/25/2020	
2/26/2020	
2/27/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	155
9/2/2020	159
9/25/2020	
9/28/2020	
9/29/2020	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	166

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
4/1/2019
4/2/2019
9/24/2019
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

50.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	2.9					5.6			
6/7/2016							19	44	
8/9/2016	2.5								
8/10/2016						5.3			
8/11/2016									
8/12/2016								43	
8/16/2016							20		
8/22/2016		4.2							
10/3/2016	2.5								
10/4/2016		2.1				5.6			
10/6/2016								41	
10/7/2016							21		
11/29/2016	2.6								
12/1/2016		1.8				6.2			
12/5/2016								41	
12/6/2016							22		
1/10/2017		1.6							
2/13/2017	2.1								
2/14/2017		1.9				8.8			
2/15/2017								39	
2/16/2017							22		
4/13/2017	2.1					10			
4/14/2017		1.5							
4/18/2017							21	39	
5/25/2017	2.4	1.5				11			
5/30/2017									
6/2/2017							20	37	
7/7/2017	1.9					12			
7/10/2017		1.6							
7/12/2017							23		
7/13/2017								38	
7/14/2017									
10/9/2017	1.9					18			
10/10/2017		1.7						38	
10/11/2017							24		
6/12/2018	3.4	1.8							
6/14/2018							23.1	30.5	
10/16/2018	3.3	1.5				10.7			
10/17/2018								30.7	
10/18/2018							26.9		
4/1/2019	4.2	1.6						24.1	
4/2/2019						9	24.1		
4/3/2019			5.2						
5/2/2019	4.3								
9/23/2019	3.1	1.2				8.6			
9/25/2019							25.1	23.6	
9/26/2019									
9/27/2019			394 (o)						
2/18/2020						8.2			
2/19/2020		1.3							
2/21/2020			2.6						
3/18/2020	3.1	1.4							

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/19/2020						7.8		20.5	
3/20/2020			4						
3/23/2020							20.8		
5/22/2020				6.6					32
5/25/2020					4				
6/23/2020				5.9	5.5				15.7
7/28/2020				5.9	4.6				20.6
9/2/2020				6					18.9
9/3/2020					6.3				
9/23/2020	4.2	1.1				8.4			
9/24/2020							25.4		
9/25/2020			3.3					20.2	
10/1/2020				6	7.5				18.6
11/10/2020				5.5	7.7				19.6
12/15/2020				6.3	8				20.7
1/20/2021				5.7	7.2				21.9
3/23/2021		1.2							
3/24/2021								18.4	14.1
3/25/2021				5.7	7.5				
3/26/2021	3.6								
3/30/2021							23.8		
3/31/2021						13.4			
4/1/2021			2.9						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	37
8/9/2016	
8/10/2016	
8/11/2016	41
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	44
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	48
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	46
4/13/2017	
4/14/2017	
4/18/2017	41
5/25/2017	
5/30/2017	38
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	35
10/9/2017	
10/10/2017	
10/11/2017	36
6/12/2018	27.2
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	25.2
4/1/2019	
4/2/2019	20.3
4/3/2019	
5/2/2019	
9/23/2019	
9/25/2019	
9/26/2019	28.7
9/27/2019	
2/18/2020	
2/19/2020	
2/21/2020	
3/18/2020	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
3/19/2020	22
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	28.8
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
3/23/2021	
3/24/2021	24
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	26								
6/8/2016		48	23	130	7.1	440			6.4
6/9/2016							480	1900	
8/11/2016	34								
8/12/2016		27	26	130					
8/15/2016									4.3
8/18/2016					6.9	500	400	1600	
10/7/2016	38	72	41						
10/10/2016				140	7.1	480	390	1400	3.5
12/6/2016	45	73							
12/7/2016			23	130			450	970	
12/8/2016					6.3	540			2.8
1/23/2017									
2/7/2017									
2/16/2017	40	19	31						
2/17/2017				140	5.6	570			
2/20/2017							470	1900	4.2
3/27/2017									
4/17/2017									
4/19/2017	38	13	30	140	5		420	1900	
4/20/2017						740			4.1
5/22/2017									
5/30/2017	41								
6/1/2017		8	13	130	4.9				4.4
6/5/2017						530	450	1900	
7/11/2017									
7/14/2017	36	11	19						
7/17/2017							470	2100	5
7/18/2017				140	4.2				
7/19/2017						540			
8/23/2017									
10/10/2017									
10/11/2017	45	24	19	130			510	1600	4.1
10/12/2017					4.8	700			
6/13/2018				150			598	1880	
6/14/2018	33.3	7.3			3.3	725			3.4
6/15/2018			9.3						
10/17/2018	41.8								
10/18/2018		10.9							
10/19/2018			15.3		4.1				
10/22/2018				149		827	639	2050	3.9
4/2/2019	18.7	4.5							
4/3/2019			9.7	144	5	856	679	1890	
4/4/2019									3.8
5/2/2019						999			
9/26/2019	47.1	60.5	26	128					
9/27/2019						996	918		
9/30/2019					4.7			2040	5.2
2/25/2020						547			
2/26/2020									
3/19/2020	21.9								
3/20/2020		5.3	6.6		4.2	665			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/23/2020				125			788		
3/24/2020									3.6
3/25/2020								1670	
9/24/2020	50.1	30.3			4	1050	988		
9/25/2020								1640	
9/28/2020			8.6	152					5.6
3/24/2021	35.6	6.1							
3/25/2021									
3/26/2021			5.8				928	1240	5.7
3/29/2021				131	5	886			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	780
2/7/2017	780
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	790
4/17/2017	770
4/19/2017	
4/20/2017	
5/22/2017	890
5/30/2017	
6/1/2017	
6/5/2017	870
7/11/2017	840
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	800
10/10/2017	730
10/11/2017	
10/12/2017	
6/13/2018	
6/14/2018	
6/15/2018	390
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	400
4/2/2019	333
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	143
9/30/2019	
2/25/2020	
2/26/2020	100
3/19/2020	
3/20/2020	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/23/2020	117
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	127
9/28/2020	
3/24/2021	
3/25/2021	85.5
3/26/2021	
3/29/2021	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
12/16/2019	
2/25/2020	
2/26/2020	
2/27/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	218
9/2/2020	210
9/25/2020	
9/28/2020	
9/29/2020	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	261

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
4/1/2019
4/2/2019
9/24/2019
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

25.6

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.005					<0.005			
6/7/2016							<0.005	<0.005	
8/9/2016	0.0019 (J)								
8/10/2016						0.0044 (J)			
8/11/2016									
8/12/2016								<0.005	
8/16/2016							<0.005		
8/22/2016		<0.005							
10/3/2016	<0.005								
10/4/2016		0.0013 (J)				<0.005			
10/6/2016								<0.005	
10/7/2016							<0.005		
11/29/2016	<0.005								
12/1/2016		<0.005				<0.005			
12/5/2016								<0.005	
12/6/2016							<0.005		
1/10/2017		<0.005							
2/13/2017	<0.005								
2/14/2017		<0.005				<0.005			
2/15/2017								<0.005	
2/16/2017							<0.005		
4/13/2017	0.0005 (J)					<0.005			
4/14/2017		0.0005 (J)							
4/18/2017							<0.005	<0.005	
5/25/2017	<0.005	0.0004 (J)				<0.005			
5/30/2017									
6/2/2017							<0.005	0.0003 (J)	
7/7/2017	0.0008 (J)					<0.005			
7/10/2017		0.0005 (J)							
7/12/2017							<0.005		
7/13/2017								<0.005	
7/14/2017									
3/26/2018	<0.005	<0.005							
3/27/2018							<0.005		
3/28/2018								<0.005	
2/25/2019	<0.005								
2/27/2019		<0.005							
2/28/2019							<0.005	<0.005	
4/1/2019	<0.005	<0.005						<0.005	
4/2/2019						<0.005	<0.005		
4/3/2019			<0.005						
9/23/2019	<0.005	0.00047 (J)				<0.005			
9/25/2019							<0.005	0.00055 (J)	
9/26/2019									
9/27/2019			<0.005						
2/18/2020	0.00048 (J)					<0.005			
2/19/2020		0.00053 (J)							
2/20/2020							<0.005		
2/21/2020			0.00051 (J)						
2/24/2020								<0.005	
3/18/2020	<0.005	0.00052 (J)							
3/19/2020						0.0015 (J)		0.0004 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			0.0007 (J)						
3/23/2020							0.0011 (J)		
5/22/2020				0.00044 (J)					<0.005
5/25/2020					<0.005				
6/23/2020				0.00043 (J)	0.00042 (J)				<0.005
7/28/2020				<0.005	<0.005				<0.005
9/2/2020				<0.005					<0.005
9/3/2020					<0.005				
9/23/2020	<0.005	<0.005				<0.005			
9/24/2020							<0.005		
9/25/2020			0.00083 (J)					0.00058 (J)	
10/1/2020				0.0014 (J)	0.00056 (J)				<0.005
11/10/2020				0.00059 (J)	<0.005				<0.005
12/15/2020				0.00069	<0.005				<0.005
1/20/2021				0.00061 (J)	<0.005				<0.005
2/16/2021	<0.005	0.00071 (J)							
2/17/2021				0.00099 (J)	0.00069 (J)				
2/18/2021						<0.005	<0.005		0.026
2/19/2021			0.00077 (J)					<0.005	
3/23/2021		0.00059 (J)							
3/24/2021								0.00079 (J)	<0.005
3/25/2021				<0.005	<0.005				
3/26/2021	0.00071 (J)								
3/30/2021							<0.005		
3/31/2021						<0.005			
4/1/2021			0.00076 (J)						

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	<0.005
8/9/2016	
8/10/2016	
8/11/2016	<0.005
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.005
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.005
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.005
4/13/2017	
4/14/2017	
4/18/2017	<0.005
5/25/2017	
5/30/2017	<0.005
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.005
3/26/2018	
3/27/2018	<0.005
3/28/2018	
2/25/2019	<0.005
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	<0.005
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	<0.005
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	<0.005
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.00071 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	<0.005
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.0019 (J)
2/19/2021	
3/23/2021	
3/24/2021	<0.005
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.005								
6/8/2016		<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
6/9/2016							<0.005	<0.005	
8/11/2016	<0.005								
8/12/2016		<0.005	<0.005	<0.005					
8/15/2016									<0.005
8/18/2016					<0.005	<0.005	<0.005	<0.005	
10/7/2016	<0.005	0.0011 (J)	<0.005						
10/10/2016				<0.005	<0.005	<0.005	<0.005	0.0009 (J)	<0.005
12/6/2016	<0.005	<0.005							
12/7/2016			<0.005	<0.005			0.002 (J)	<0.005	
12/8/2016					<0.005	<0.005			<0.005
1/23/2017									
2/7/2017									
2/16/2017	<0.005	<0.005	<0.005						
2/17/2017				<0.005	<0.005	<0.005			
2/20/2017							<0.005	<0.005	<0.005
3/27/2017									
4/17/2017									
4/19/2017	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
4/20/2017						<0.005			<0.005
5/22/2017									
5/30/2017	<0.005								
6/1/2017		<0.005	<0.005	<0.005	<0.005				<0.005
6/5/2017						<0.005	<0.005	<0.005	
7/11/2017									
7/14/2017	<0.005	<0.005	<0.005						
7/17/2017							<0.005	<0.005	<0.005
7/18/2017				<0.005	<0.005				
7/19/2017						<0.005			
8/23/2017									
3/26/2018									
3/27/2018	<0.005	<0.005	<0.005						
3/28/2018				<0.005	<0.005				<0.005
3/29/2018						<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005		0.0048 (J)					
3/1/2019			<0.005			<0.005	0.0033 (J)	<0.005	<0.005
4/2/2019	0.00044 (J)	<0.005							
4/3/2019			<0.005	0.00088 (J)	<0.005	<0.005	0.00057 (J)	<0.005	
4/4/2019									<0.005
9/26/2019	<0.005	<0.005	<0.005	0.0022 (J)					
9/27/2019						<0.005	<0.005		
9/30/2019					<0.005			<0.005	0.0021 (J)
2/24/2020	<0.005	<0.005	<0.005	0.00096 (J)					
2/25/2020						<0.005	<0.005		
2/26/2020					<0.005			0.00051 (J)	<0.005
3/19/2020	0.00039 (J)								
3/20/2020		0.00046 (J)	<0.005		0.00041 (J)	<0.005			
3/23/2020				0.00091 (J)			0.00043 (J)		
3/24/2020									<0.005
3/25/2020								<0.005	
9/24/2020	<0.005	<0.005			<0.005	<0.005	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/25/2020								0.00058 (J)	
9/28/2020			<0.005	0.0028 (J)					<0.005
2/18/2021	<0.005	<0.005	<0.005	0.00078 (J)					
2/19/2021					<0.005	<0.005	<0.005	<0.005	
2/23/2021									<0.005
3/8/2021									
3/24/2021	<0.005	0.00065 (J)							
3/25/2021									
3/26/2021			<0.005				<0.005	<0.005	<0.005
3/29/2021				0.0011 (J)	0.0025 (J)	<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.001 (J)
2/7/2017	<0.005
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	<0.005
4/17/2017	<0.005
4/19/2017	
4/20/2017	
5/22/2017	0.0004 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0004 (J)
7/11/2017	0.0012 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0009 (J)
3/26/2018	<0.005
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	<0.005
4/2/2019	0.00095 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.00056 (J)
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	0.00073 (J)
3/19/2020	
3/20/2020	
3/23/2020	0.00098 (J)
3/24/2020	
3/25/2020	
9/24/2020	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
9/25/2020	0.00087 (J)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.0011 (J)
3/24/2021	
3/25/2021	0.00082 (J)
3/26/2021	
3/29/2021	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
4/2/2019					0.001 (J)				
4/4/2019	<0.005		<0.005	0.0011 (J)					
4/5/2019		<0.005							
9/24/2019	0.00064 (J)		<0.005						
9/26/2019		0.00062 (J)		0.00067 (J)					
9/27/2019					0.0006 (J)				
2/25/2020				<0.005		<0.005			
2/26/2020	<0.005				<0.005				
2/27/2020		0.00072 (J)	<0.005				0.0031 (J)	<0.005	
2/28/2020									0.00043 (J)
3/23/2020	0.0011 (J)				<0.005				
3/24/2020		0.0012 (J)	<0.005			0.00068 (J)	0.00042 (J)	0.001 (J)	
3/25/2020				<0.005					0.00058 (J)
9/2/2020							<0.005		
9/25/2020		0.00057 (J)		0.00072 (J)		0.00068 (J)			
9/28/2020	0.00056 (J)		<0.005		<0.005				
9/29/2020								<0.005	0.00082 (J)
2/19/2021			<0.005						
2/22/2021	<0.005			<0.005		<0.005		<0.005	<0.005
2/23/2021		<0.005							
3/8/2021					0.00057 (J)				
3/9/2021							<0.005		
3/25/2021					0.00057 (J)				
3/26/2021				<0.005		<0.005			
3/29/2021	<0.005						<0.005		
3/30/2021		<0.005	<0.005						0.00081 (J)
3/31/2021							<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	<0.005
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.005
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.00068 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.005					<0.005			
6/7/2016							<0.005	<0.005	
8/9/2016	0.0005 (J)								
8/10/2016						0.0006 (J)			
8/11/2016									
8/12/2016								<0.005	
8/16/2016							<0.005		
8/22/2016		<0.005							
10/3/2016	<0.005								
10/4/2016		<0.005				<0.005			
10/6/2016								<0.005	
10/7/2016							<0.005		
11/29/2016	<0.005								
12/1/2016		<0.005				<0.005			
12/5/2016									0.0006 (J)
12/6/2016							<0.005		
1/10/2017		<0.005							
2/13/2017	<0.005								
2/14/2017		<0.005				<0.005			
2/15/2017									<0.005
2/16/2017							<0.005		
4/13/2017	<0.005					<0.005			
4/14/2017		<0.005							
4/18/2017							<0.005	<0.005	
5/25/2017	<0.005	<0.005				<0.005			
5/30/2017									
6/2/2017							<0.005	<0.005	
7/7/2017	<0.005					<0.005			
7/10/2017		<0.005							
7/12/2017							<0.005		
7/13/2017									0.0003 (J)
7/14/2017									
3/26/2018	<0.005	<0.005							
3/27/2018							<0.005		
3/28/2018								<0.005	
6/12/2018	<0.005	<0.005							
6/14/2018							<0.005	<0.005	
10/16/2018	<0.005	<0.005				0.00094 (J)			
10/17/2018								<0.005	
10/18/2018							<0.005		
2/25/2019	<0.005								
2/27/2019		<0.005							
2/28/2019							<0.005	<0.005	
4/1/2019	0.00014 (J)	<0.005							0.00034 (J)
4/2/2019						0.00016 (J)	0.00027 (J)		
4/3/2019			0.00011 (J)						
5/2/2019	<0.005								
9/23/2019	0.00047 (J)	<0.005				0.00042 (J)			
9/25/2019							0.00056 (J)	0.0004 (J)	
9/26/2019									
9/27/2019			<0.005						
2/18/2020	<0.005					0.00032 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/19/2020		<0.005							
2/20/2020							<0.005		
2/21/2020			<0.005						
2/24/2020								0.00034 (J)	
3/18/2020	<0.005	<0.005							
3/19/2020						<0.005		0.00035 (J)	
3/20/2020			<0.005						
3/23/2020							0.00031 (J)		
5/22/2020				<0.005					0.00041 (J)
5/25/2020					<0.005				
6/23/2020				0.00031 (J)	<0.005				<0.005
7/28/2020				<0.005	0.00064 (J)				<0.005
9/2/2020				<0.005					0.001 (J)
9/3/2020					<0.005				
9/23/2020	<0.005	<0.005				<0.005			
9/24/2020							<0.005		
9/25/2020			<0.005					0.00049 (J)	
10/1/2020				<0.005	0.00039 (J)				0.0018 (J)
11/10/2020				<0.005	<0.005				0.0016 (J)
12/15/2020				<0.005	<0.005				0.0018
1/20/2021				<0.005	<0.005				0.0019 (J)
2/16/2021	<0.005	<0.005							
2/17/2021				<0.005	<0.005				
2/18/2021						<0.005	<0.005		0.0013 (J)
2/19/2021			<0.005					0.00066 (J)	
3/23/2021		<0.005							
3/24/2021								0.00048 (J)	<0.005
3/25/2021				<0.005	<0.005				
3/26/2021	<0.005								
3/30/2021							0.00052 (J)		
3/31/2021						0.00094 (J)			
4/1/2021			<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	0.0037
8/9/2016	
8/10/2016	
8/11/2016	0.0039 (J)
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.0043 (J)
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	0.005 (J)
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.0054 (J)
4/13/2017	
4/14/2017	
4/18/2017	0.0054 (J)
5/25/2017	
5/30/2017	0.0045 (J)
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.0049 (J)
3/26/2018	
3/27/2018	<0.005
3/28/2018	
6/12/2018	0.0048 (J)
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	0.0047 (J)
2/25/2019	0.0071 (J)
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.0056 (J)
4/3/2019	
5/2/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.0093
9/27/2019	
2/18/2020	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

2/19/2020	
2/20/2020	0.0092
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.0089
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.0095
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.0088
2/19/2021	
3/23/2021	
3/24/2021	0.0078
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.005								
6/8/2016		0.00071 (J)	<0.005	<0.005	0.00041 (J)	0.0079			<0.005
6/9/2016							<0.005	0.0026	
8/11/2016	<0.005								
8/12/2016		0.0006 (J)	<0.005	<0.005					
8/15/2016									<0.005
8/18/2016					<0.005	0.0109	<0.005	0.0021 (J)	
10/7/2016	<0.005	0.0005 (J)	<0.005						
10/10/2016				<0.005	<0.005	0.011	<0.005	0.0018 (J)	<0.005
12/6/2016	<0.005	0.0009 (J)							
12/7/2016			<0.005	0.0008 (J)			0.0015 (J)	0.0018 (J)	
12/8/2016					0.0006 (J)	0.013			0.0006 (J)
1/23/2017									
2/7/2017									
2/16/2017	<0.005	<0.005	<0.005						
2/17/2017				<0.005	<0.005	0.0122			
2/20/2017							<0.005	0.0027 (J)	<0.005
3/27/2017									
4/17/2017									
4/19/2017	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	0.0032 (J)	
4/20/2017						0.0116			<0.005
5/22/2017									
5/30/2017	<0.005								
6/1/2017		<0.005	<0.005	<0.005	<0.005				<0.005
6/5/2017						0.0112	<0.005	0.0034 (J)	
7/11/2017									
7/14/2017	<0.005	<0.005	<0.005						
7/17/2017							<0.005	0.0033 (J)	<0.005
7/18/2017				<0.005	0.0004 (J)				
7/19/2017						0.0131			
8/23/2017									
3/26/2018									
3/27/2018	<0.005	<0.005	<0.005						
3/28/2018				<0.005	<0.005				<0.005
3/29/2018						0.016	<0.005	<0.005	
6/13/2018				<0.005			<0.005	0.0039 (J)	
6/14/2018	<0.005	<0.005			<0.005	0.017			<0.005
6/15/2018			<0.005						
10/17/2018	<0.005								
10/18/2018		<0.005							
10/19/2018			<0.005		<0.005				
10/22/2018				<0.005		0.021	<0.005	0.0043 (J)	<0.005
2/27/2019	<0.005	<0.005		<0.005					
3/1/2019			<0.005			0.017	<0.005	0.0055 (J)	<0.005
4/2/2019	0.00015 (J)	0.00012 (J)							
4/3/2019			7.2E-05 (J)	0.00024 (J)	0.00064 (J)	0.019	0.00058 (J)	0.0048 (J)	
4/4/2019									0.00022 (J)
5/2/2019						0.023 (J)			
9/26/2019	<0.005	<0.005	<0.005	<0.005					
9/27/2019						0.027	0.00034 (J)		
9/30/2019					0.0004 (J)			0.0048 (J)	<0.005
2/24/2020	<0.005	<0.005	<0.005	<0.005					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/25/2020						0.017	0.00046 (J)		
2/26/2020					0.00037 (J)			0.0045 (J)	<0.005
3/19/2020	<0.005								
3/20/2020		<0.005	<0.005		<0.005	0.02			
3/23/2020				0.00036 (J)			0.0004 (J)		
3/24/2020									<0.005
3/25/2020								0.0037 (J)	
9/24/2020	<0.005	<0.005			0.00098 (J)	0.041	<0.005		
9/25/2020								0.0038 (J)	
9/28/2020			<0.005	<0.005					<0.005
2/18/2021	<0.005	<0.005	<0.005	<0.005					
2/19/2021					0.0013 (J)	0.032	0.00044 (J)	0.0042 (J)	
2/23/2021									<0.005
3/8/2021									
3/24/2021	<0.005	<0.005							
3/25/2021									
3/26/2021			<0.005				<0.005	<0.005	<0.005
3/29/2021				<0.005	0.00069 (J)	0.029 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0012 (J)
2/7/2017	0.0008 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.001 (J)
4/17/2017	0.0009 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0008 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0008 (J)
7/11/2017	0.0008 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0006 (J)
3/26/2018	<0.005
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	<0.005
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	<0.005
2/27/2019	
3/1/2019	<0.005
4/2/2019	0.00022 (J)
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	<0.005
9/30/2019	
2/24/2020	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

2/25/2020	
2/26/2020	<0.005
3/19/2020	
3/20/2020	
3/23/2020	<0.005
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.005
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.005
3/24/2021	
3/25/2021	<0.005
3/26/2021	
3/29/2021	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					0.00057 (J)				
10/18/2018	0.00079 (J)								
10/19/2018			0.0012 (J)						
10/22/2018		0.0037 (J)		<0.005					
4/2/2019					0.0011 (J)				
4/4/2019	0.00051 (J)		0.00042 (J)	0.0011 (J)					
4/5/2019		0.011							
5/3/2019		0.0078 (J)							
9/24/2019	0.00041 (J)		<0.005						
9/26/2019		0.01		0.0019 (J)					
9/27/2019					0.0009 (J)				
11/15/2019		0.0077							
12/13/2019								0.0033 (J)	
2/25/2020				0.0011 (J)		0.0015 (J)			
2/26/2020	0.00031 (J)				0.00058 (J)				
2/27/2020		0.00095 (J)	<0.005				0.014	0.00047 (J)	
2/28/2020									0.00049 (J)
3/23/2020	0.00036 (J)				0.00049 (J)				
3/24/2020		0.0037 (J)	0.00039 (J)			0.0019 (J)	0.0065	<0.005	
3/25/2020				0.00046 (J)					0.00056 (J)
9/2/2020							0.0043 (J)		
9/25/2020		0.0081		0.00082 (J)		0.0011 (J)			
9/28/2020	0.00046 (J)		0.00048 (J)		0.00038 (J)				
9/29/2020								0.00061 (J)	0.00044 (J)
2/19/2021			0.00057 (J)						
2/22/2021	<0.005			0.0011 (J)		0.0007 (J)		<0.005	0.0006 (J)
2/23/2021		0.0062							
3/8/2021					<0.005				
3/9/2021							0.0014 (J)		
3/25/2021					<0.005				
3/26/2021				0.0015 (J)		0.0011 (J)			
3/29/2021	<0.005						0.0015 (J)		
3/30/2021		0.0014 (J)	0.00065 (J)						0.00052 (J)
3/31/2021							<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.00075 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.00053 (J)
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						<0.005			
6/7/2016					0.00013 (J)				
6/8/2016				0.00081 (J)					
8/10/2016					0.0003 (J)				
8/11/2016				0.0007 (J)		0.0003 (J)			
10/4/2016					<0.005				
10/5/2016						<0.005			
10/6/2016				<0.005					
12/2/2016					<0.005				
12/5/2016						0.0006 (J)			
12/6/2016				0.0009 (J)					
2/14/2017					<0.005				
2/15/2017				<0.005		<0.005			
4/14/2017					<0.005				
4/17/2017						<0.005			
4/18/2017				0.0005 (J)					
5/26/2017					<0.005	<0.005			
6/2/2017				0.0006 (J)					
7/10/2017					<0.005				
7/11/2017						<0.005			
7/14/2017				0.0006 (J)					
3/26/2018					<0.005				
3/27/2018				<0.005		<0.005			
6/12/2018					<0.005	<0.005			
6/13/2018				0.00068 (J)					
10/16/2018					<0.005				
10/17/2018						<0.005			
10/18/2018				<0.005					
2/25/2019					<0.005				
2/28/2019				0.00067 (J)					
4/1/2019					5.6E-05 (J)	0.00024 (J)			
4/2/2019				0.00094 (J)					
9/24/2019				0.00078 (J)	0.0012 (J)	<0.005			
2/19/2020					<0.005				
2/20/2020						<0.005			
2/21/2020				0.00081 (J)					
3/18/2020					<0.005				
3/19/2020				0.00091 (J)		<0.005			
9/3/2020	<0.005	0.002 (J)	<0.005						
9/23/2020					<0.005				
9/24/2020						<0.005			
9/25/2020				0.00077 (J)					
1/28/2021							<0.005	0.0048 (J)	
2/16/2021					<0.005				
2/17/2021						<0.005			
2/18/2021			<0.005	0.00074 (J)					
2/22/2021	<0.005								
2/23/2021							<0.005	0.0033 (J)	
3/8/2021		0.0043 (J)							
3/24/2021					<0.005	<0.005			
3/29/2021		0.0057							
3/30/2021				0.00085 (J)			<0.005	0.0031 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 0.0013 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.838					0.239 (U)			
6/7/2016							0.616	0.024 (U)	
8/9/2016	1.18								
8/10/2016						1.19			
8/11/2016									
8/12/2016								0.849	
8/16/2016							1.08		
8/22/2016		0.356 (U)							
10/3/2016	0.815 (U)								
10/4/2016		0.0834 (U)				0.231 (U)			
10/6/2016								1.57	
10/7/2016							2.82		
11/29/2016	0.887 (U)								
12/1/2016		0.208 (U)				0.428 (U)			
12/5/2016								0.956	
12/6/2016							0.719 (U)		
1/10/2017		0.024 (U)							
2/13/2017	0.869 (U)								
2/14/2017		0.105 (U)				0.36 (U)			
2/15/2017								0.229 (U)	
2/16/2017							0.966 (U)		
4/13/2017	1.21 (U)					0.387 (U)			
4/14/2017		0.803 (U)							
4/18/2017							1.01 (U)	0.0114 (U)	
5/25/2017	1.54	0.569 (U)				0.123 (U)			
5/30/2017									
6/2/2017							1.13 (U)	0.375 (U)	
7/7/2017	1.45					0.876 (U)			
7/10/2017		0.589 (U)							
7/12/2017							1.29		
7/13/2017								0.636 (U)	
7/14/2017									
3/26/2018	0.529 (U)	0.513 (U)							
3/27/2018							0.779 (U)		
3/28/2018								0.36 (U)	
6/12/2018	0.945 (U)	0.516 (U)							
6/14/2018							1.22 (U)	0.316 (U)	
10/16/2018	0.57 (U)	0.146 (U)				0.881 (U)			
10/17/2018								0.326 (U)	
10/18/2018							0.841 (U)		
2/25/2019	1.43								
2/27/2019		0.941 (U)							
2/28/2019							1.88	1.04	
4/1/2019	1.44 (U)	0.66 (U)						0.328 (U)	
4/2/2019						0.64 (U)	1.21 (U)		
4/3/2019			0.69 (U)						
9/23/2019	1.82	1.25				1.13			
9/25/2019							0.816 (U)	0.649 (U)	
9/26/2019									
10/4/2019			1.02 (U)						
2/18/2020	1.33					0.373 (U)			
2/19/2020		1.28							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							1.47 (U)		
2/21/2020			0.504 (U)						
2/24/2020								0.455 (U)	
3/18/2020	1.31 (U)	1.2 (U)							
3/19/2020						0.431 (U)		0.838 (U)	
3/20/2020			0.6 (U)						
3/23/2020							1.69		
5/22/2020				1.21 (U)					1.82
5/25/2020					1.21 (U)				
6/23/2020				0.955 (U)	1.44				1.05 (U)
7/28/2020				1.59	0.592 (U)				1.71
9/2/2020				0.59 (U)					0.0158 (U)
9/3/2020					1.06 (U)				
9/23/2020	1.43	0.53 (U)				0.293 (U)			
9/24/2020							1.19 (U)		
9/25/2020								0.818 (U)	
9/28/2020			0.963 (U)						
10/1/2020				0.754 (U)	0.597 (U)				1.19 (U)
11/10/2020				0.403 (U)	0.188 (U)				0.675 (U)
12/15/2020				0.263 (U)	0.464 (U)				1.26
1/20/2021				0.669 (U)	1.33 (U)				0.701 (U)
2/16/2021	0.938 (U)	0.344 (U)							
2/17/2021				0.537 (U)	1.1 (U)				
2/18/2021						0.232 (U)	1.52		1
2/19/2021			1.11					0.608 (U)	
3/23/2021		0.322 (U)							
3/24/2021								0.369 (U)	1.1 (U)
3/25/2021				1.15 (U)	1.08 (U)				
3/26/2021	1.03 (U)								
3/30/2021							1.51 (U)		
3/31/2021						0.301 (U)			
4/1/2021			0.58 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16	
6/6/2016	
6/7/2016	0.284 (U)
8/9/2016	
8/10/2016	
8/11/2016	1.71
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.485 (U)
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	1.22
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.19 (U)
4/13/2017	
4/14/2017	
4/18/2017	0.52 (U)
5/25/2017	
5/30/2017	1.21 (U)
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.526 (U)
3/26/2018	
3/27/2018	1.34
3/28/2018	
6/12/2018	0.732 (U)
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	0.522 (U)
2/25/2019	1.08
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	1.73
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	1.45
10/4/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	1.22 (U)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	1.63
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.469 (U)
9/25/2020	
9/28/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.721 (U)
2/19/2021	
3/23/2021	
3/24/2021	0.92 (U)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	0.135 (U)								
6/8/2016		0.406	0.264 (U)	0.863 (U)	0.573	1.53			0.314 (U)
6/9/2016							0.704	2.13	
8/11/2016	0.808								
8/12/2016		1.39	1.18	1.74					
8/15/2016									1.2
8/18/2016					0.44 (U)	2.47	1.88	2.67	
10/7/2016	0.874 (U)	0.451 (U)	1.97						
10/10/2016				0.944 (U)	0.933 (U)	2.11	1.48	3.46	1.03 (U)
12/6/2016	0.131 (U)	0.516 (U)							
12/7/2016			1.31 (U)	2.29			2.61	1.65	
12/8/2016					1.02 (U)	2.64			1.47 (U)
1/23/2017									
2/7/2017									
2/16/2017	0.471 (U)	0.172 (U)	0.35 (U)						
2/17/2017				1.35 (U)	0.193 (U)	1.34			
2/20/2017							0.884 (U)	2.68	0.547 (U)
4/17/2017									
4/19/2017	0.65 (U)	0.704 (U)	0.974 (U)	1.48	0.488 (U)		0.948 (U)	3.81	
4/20/2017						2.35			0.0595 (U)
5/22/2017									
5/30/2017	0.65 (U)								
6/1/2017		0.493 (U)	0.332 (U)	1.61	0.837 (U)				0.67 (U)
6/5/2017						1.6	1.33	2.86	
7/11/2017									
7/14/2017	0.592 (U)	0.547 (U)	1.27						
7/17/2017							1.04	2.87	1.25 (U)
7/18/2017					0.498 (U)				
7/19/2017				1.626		1.76			
8/23/2017									
3/26/2018									
3/27/2018	0.551 (U)	0.569 (U)	0.169 (U)						
3/28/2018				0.97 (U)	0.864 (U)				0.507 (U)
3/29/2018						2.43	1.65	2.79	
6/13/2018				0.686 (U)			0.983 (U)	2.19	
6/14/2018	0.638 (U)	0.989 (U)			0.583 (U)	2.14			0.721 (U)
6/15/2018			0.625 (U)						
10/17/2018	0.555 (U)								
10/18/2018		0.875 (U)							
10/19/2018			0.784 (U)		0.982 (U)				
10/22/2018				0.559 (U)		1.43	1.21	2.18	0.741 (U)
2/27/2019	1.57	1.12		1.24					
3/1/2019			0.989 (U)			3.32	2.24	3.37	0.634 (U)
4/2/2019	0.71 (U)	0.814 (U)							
4/3/2019			0.98 (U)	0.567 (U)	0.532 (U)	2.48	2.86	3.6	
4/4/2019									0.346 (U)
9/26/2019	1.17 (U)	0.973 (U)	1.16	0.662 (U)					
9/27/2019						2.83	2.28		
9/30/2019					1.16 (U)			2.73	0.953 (U)
2/24/2020	1.17	1.07	1.19	1.38					
2/25/2020						1.7	2.49		
2/26/2020					1.08 (U)			2.4	1.16

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/19/2020	0.626 (U)								
3/20/2020		2.59	0.89 (U)		1.08 (U)	3.6			
3/23/2020				1.27 (U)			1.68		
3/24/2020									0.899 (U)
3/25/2020								4.72	
9/24/2020	0.594 (U)	0.789 (U)			0.157 (U)	4.18	0.56 (U)		
9/25/2020								1.49	
9/28/2020			1.11 (U)	1.07 (U)					0.744 (U)
2/18/2021	0.723 (U)	0.62 (U)	1.05 (U)	0.87 (U)					
2/19/2021					1 (U)	2.63	1.17 (U)	1.07 (U)	
2/23/2021									0.456 (U)
3/8/2021									
3/24/2021	0.391 (U)	1.21 (U)							
3/25/2021									
3/26/2021			0.848 (U)				1.04 (U)	2.91	0.134 (U)
3/29/2021				1.49	0.471 (U)	4.1			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	2.17
2/7/2017	3
2/16/2017	
2/17/2017	
2/20/2017	
4/17/2017	2.73
4/19/2017	
4/20/2017	
5/22/2017	3.15
5/30/2017	
6/1/2017	
6/5/2017	0.86 (U)
7/11/2017	1.87
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	3.39
3/26/2018	1.61
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.815 (U)
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	1.02 (U)
2/27/2019	
3/1/2019	2.47
4/2/2019	2.29
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	1.23 (U)
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	1.09 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/19/2020	
3/20/2020	
3/23/2020	1.42
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	0.783 (U)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.429 (U)
3/24/2021	
3/25/2021	1.48
3/26/2021	
3/29/2021	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					1.24				
10/18/2018	0.96								
10/19/2018			2.28						
10/22/2018		1.22 (U)		1.54					
4/2/2019					2.81				
4/4/2019	1.49		1.89	2.37					
4/5/2019		2.2							
9/24/2019	1.68		3.98						
9/26/2019		2.36		3.09					
9/27/2019					1.66				
2/25/2020				4.16		2.87			
2/26/2020	1.31				1.76				
2/27/2020		1.44	1.31				5.89	1.03 (U)	
2/28/2020									0.649 (U)
3/23/2020	2.39				2.75				
3/24/2020		1.25 (U)	2.56			2.8	5.9	1.35	
3/25/2020				2.81					0.848 (U)
9/2/2020							5.91		
9/25/2020		2.62		2.15		3.29			
9/28/2020	1.48		2.12		1.59				
9/29/2020								1.71	0.441 (U)
2/19/2021			2.23						
2/22/2021	1.07 (U)			2.03		1.73		1.65	1.31 (U)
2/23/2021		1.55							
3/8/2021					2.09				
3/9/2021							3.34		
3/25/2021					2.43				
3/26/2021				2.4		3.15			
3/29/2021	1.63						3.54		
3/30/2021		2.04	1.35 (U)						0.826 (U)
3/31/2021								0.251 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018
10/18/2018
10/19/2018
10/22/2018
4/2/2019
4/4/2019
4/5/2019
9/24/2019
9/26/2019
9/27/2019
2/25/2020
2/26/2020
2/27/2020
2/28/2020
3/23/2020
3/24/2020
3/25/2020
9/2/2020
9/25/2020
9/28/2020
9/29/2020
2/19/2021
2/22/2021
2/23/2021
3/8/2021
3/9/2021
3/25/2021
3/26/2021
3/29/2021
3/30/2021
3/31/2021

1.31 (U)

1.91

1

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						0.488			
6/7/2016					0.0507 (U)				
6/8/2016				0.854					
8/10/2016					0.862 (U)				
8/11/2016				1.24		0.639 (U)			
10/4/2016					0.48 (U)				
10/5/2016						0.945 (U)			
10/6/2016				2.43					
12/2/2016					0.219 (U)				
12/5/2016						2.2			
12/6/2016				0.958 (U)					
2/14/2017					0.636 (U)				
2/15/2017				1.18		0.74 (U)			
4/14/2017					0.13 (U)				
4/17/2017						0.764 (U)			
4/18/2017				1.26					
5/26/2017					0.349 (U)	0.245 (U)			
6/2/2017				1.24 (U)					
7/10/2017					0.565 (U)				
7/11/2017						0.502 (U)			
7/14/2017				1.55					
3/26/2018					0.303 (U)				
3/27/2018				2.15		0.745 (U)			
6/12/2018					0.494 (U)	0.319 (U)			
6/13/2018				1.95					
10/16/2018					0.633 (U)				
10/17/2018						0.319 (U)			
10/18/2018				1.1					
2/25/2019					1.03 (U)				
2/28/2019				1.38					
4/1/2019					0.474 (U)	0.225 (U)			
4/2/2019				1.57					
9/24/2019				1.85	1.69	1.65			
2/19/2020					1.02 (U)				
2/20/2020						0.921 (U)			
2/21/2020				2.02					
3/18/2020					0.987 (U)				
3/19/2020				1.18 (U)		1.94			
9/3/2020	1.05 (U)	1.9	0.982 (U)						
9/23/2020					0.25 (U)				
9/24/2020						0.9 (U)			
9/25/2020				1.64					
1/28/2021							0.444 (U)	1.59	
2/16/2021					0.709 (U)				
2/17/2021						0.692 (U)			
2/18/2021			1.34	1.09					
2/22/2021	0.578 (U)								
2/23/2021							0.589 (U)	0.567 (U)	
3/8/2021		1.34							
3/24/2021					0.808 (U)	0.554 (U)			
3/29/2021		1.62 (U)							
3/30/2021				1.41 (U)			0.852 (U)	1.66 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/3/2021 3:08 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 1.01 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.11 (J)					<0.1			
6/7/2016							0.09 (J)	<0.1	
8/9/2016	0.09 (J)								
8/10/2016						0.04 (J)			
8/11/2016									
8/12/2016								0.08 (J)	
8/16/2016							0.09 (J)		
8/22/2016		0.04 (J)							
10/3/2016	0.11 (J)								
10/4/2016		0.06 (J)				0.06 (J)			
10/6/2016								0.06 (J)	
10/7/2016							0.17 (J)		
11/29/2016	0.11 (J)								
12/1/2016		0.08 (J)				0.09 (J)			
12/5/2016								0.12 (J)	
12/6/2016							0.16 (J)		
1/10/2017		0.03 (J)							
2/13/2017	0.12 (J)								
2/14/2017		<0.1				<0.1			
2/15/2017								0.33	
2/16/2017							0.38		
4/13/2017	0.1 (J)					0.04 (J)			
4/14/2017		0.01 (J)							
4/18/2017							0.12 (J)	0.006 (J)	
5/25/2017	0.08 (J)	0.005 (J)				0.02 (J)			
5/30/2017									
6/2/2017							0.03 (J)	0.04 (J)	
7/7/2017	0.13 (J)					0.12 (J)			
7/10/2017		0.06 (J)							
7/12/2017							0.15 (J)		
7/13/2017								0.17 (J)	
7/14/2017									
10/9/2017	0.11 (J)					<0.1			
10/10/2017		<0.1						0.08 (J)	
10/11/2017							0.07 (J)		
3/26/2018	<0.1	<0.1							
3/27/2018							<0.1		
3/28/2018								<0.1	
6/12/2018	0.086 (J)	0.053 (J)							
6/14/2018							0.046 (J)	<0.1	
10/16/2018	0.06 (J)	<0.1				<0.1			
10/17/2018								<0.1	
10/18/2018							<0.1		
2/25/2019	<0.1								
2/27/2019		<0.1							
2/28/2019							0.14 (J)	0.18 (J)	
4/1/2019	0.047 (J)	<0.1						0.065 (J)	
4/2/2019						<0.1	0.044 (J)		
4/3/2019			0.085 (J)						
5/2/2019	<0.1								
9/23/2019	0.076 (J)	<0.1				<0.1			
9/25/2019							0.075 (J)	0.13 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
9/26/2019									
9/27/2019			0.33						
2/18/2020	<0.1					<0.1			
2/19/2020		<0.1							
2/20/2020							<0.1		
2/21/2020			0.059 (J)						
2/24/2020								0.051 (J)	
3/18/2020	<0.1	<0.1							
3/19/2020						<0.1		<0.1	
3/20/2020			0.061 (J)						
3/23/2020							<0.1		
5/22/2020				0.054 (J)					0.065 (J)
5/25/2020					0.19 (J)				
6/23/2020				<0.1	0.19				<0.1
7/28/2020				<0.1	0.57				<0.1
9/2/2020				<0.1					0.061 (J)
9/3/2020					0.11				
9/23/2020	<0.1	<0.1				<0.1			
9/24/2020							<0.1		
9/25/2020			0.068 (J)					<0.1	
10/1/2020				<0.1	0.063 (J)				<0.1
11/10/2020				<0.1	<0.1				<0.1
12/15/2020				<0.1	<0.1				0.052
1/20/2021				<0.1	<0.1				<0.1
2/16/2021	<0.1	<0.1							
2/17/2021				<0.1	<0.1				
2/18/2021						<0.1	<0.1		0.055 (J)
2/19/2021			0.062 (J)					<0.1	
3/23/2021		<0.1							
3/24/2021								<0.1	<0.1
3/25/2021				<0.1	<0.1				
3/26/2021	<0.1								
3/30/2021							<0.1		
3/31/2021						<0.1			
4/1/2021			0.06 (J)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	<0.1
8/9/2016	
8/10/2016	
8/11/2016	0.12 (J)
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.08 (J)
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	0.24 (J)
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.31
4/13/2017	
4/14/2017	
4/18/2017	0.02 (J)
5/25/2017	
5/30/2017	0.51
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.14 (J)
10/9/2017	
10/10/2017	
10/11/2017	0.29 (J)
3/26/2018	
3/27/2018	<0.1
3/28/2018	
6/12/2018	0.061 (J)
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	<0.1
2/25/2019	0.13 (J)
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.23 (J)
4/3/2019	
5/2/2019	
9/23/2019	
9/25/2019	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
9/26/2019	<0.1
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	<0.1
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.052 (J)
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.059 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.064 (J)
2/19/2021	
3/23/2021	
3/24/2021	0.053 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	0.15 (J)								
6/8/2016		0.1 (J)	<0.1	0.09 (J)	<0.1	0.43			0.14 (J)
6/9/2016							0.12 (J)	<0.1	
8/11/2016	0.3 (J)								
8/12/2016		0.39	0.2 (J)	0.04 (J)					
8/15/2016									0.08 (J)
8/18/2016					0.09 (J)	0.3 (J)	0.08 (J)	0.24 (J)	
10/7/2016	0.14 (J)	0.16 (J)	0.07 (J)						
10/10/2016				0.06 (J)	0.04 (J)	0.32	0.09 (J)	0.3	0.1 (J)
12/6/2016	0.19 (J)	0.32							
12/7/2016			0.09 (J)	0.07 (J)			0.08 (J)	0.05 (J)	
12/8/2016					0.08 (J)	0.26 (J)			0.06 (J)
1/23/2017									
2/7/2017									
2/16/2017	0.51	0.38	0.6						
2/17/2017				0.06 (J)	0.08 (J)	0.39			
2/20/2017							0.09 (J)	0.65	0.16 (J)
3/27/2017									
4/17/2017									
4/19/2017	0.18 (J)	0.08 (J)	0.09 (J)	0.005 (J)	0.04 (J)		0.03 (J)	0.21 (J)	
4/20/2017						0.34			0.02 (J)
5/22/2017									
5/30/2017	0.15 (J)								
6/1/2017		0.09 (J)	0.05 (J)	0.65	0.03 (J)				0.04 (J)
6/5/2017						0.29 (J)	<0.1	0.05 (J)	
7/11/2017									
7/14/2017	0.16 (J)	0.06 (J)	0.08 (J)						
7/17/2017							0.09 (J)	2.5	0.07 (J)
7/18/2017				0.36	0.08 (J)				
7/19/2017						0.33			
8/23/2017									
10/10/2017									
10/11/2017	0.64	0.14 (J)	0.11 (J)	<0.1			0.09 (J)	1.8	0.11 (J)
10/12/2017					0.12 (J)	0.31			
3/26/2018									
3/27/2018	0.33	<0.1	<0.1						
3/28/2018				<0.1	<0.1				<0.1
3/29/2018						0.58	<0.1	2	
6/13/2018				0.038 (J)			0.71	3.1	
6/14/2018	0.11 (J)	0.095 (J)			<0.1	0.15 (J)			<0.1
6/15/2018			0.07 (J)						
10/17/2018	<0.1								
10/18/2018		0.054 (J)							
10/19/2018			0.17 (J)		<0.1				
10/22/2018				<0.1		0.78	0.81	3.1	<0.1
2/27/2019	0.26 (J)	<0.1		0.13 (J)					
3/1/2019			0.14 (J)			0.34	0.38	1	0.12 (J)
4/2/2019	0.14 (J)	0.044 (J)							
4/3/2019			0.051 (J)	0.072 (J)	0.032 (J)	0.23 (J)	0.1 (J)	3	
4/4/2019									<0.1
5/2/2019						1.4			
9/26/2019	0.071 (J)	0.052 (J)	<0.1	<0.1					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/27/2019						1	0.54		
9/30/2019					0.066 (J)			1.2	0.065 (J)
2/24/2020	0.11 (J)	<0.1	0.05 (J)	<0.1					
2/25/2020						0.24 (J)	0.066 (J)		
2/26/2020					<0.1			0.064 (J)	<0.1
3/19/2020	0.12 (J)								
3/20/2020		<0.1	<0.1		<0.1	0.23 (J)			
3/23/2020				<0.1			0.056 (J)		
3/24/2020									<0.1
3/25/2020								0.056 (J)	
9/24/2020	0.12	0.058 (J)			<0.1	0.24	0.062 (J)		
9/25/2020								0.054 (J)	
9/28/2020			<0.1	<0.1					<0.1
2/18/2021	0.1	<0.1	<0.1	<0.1					
2/19/2021					<0.1	0.2	<0.1	0.14	
2/23/2021									<0.1
3/8/2021									
3/24/2021	0.11	<0.1							
3/25/2021									
3/26/2021			0.053 (J)				0.054 (J)	0.095 (J)	<0.1
3/29/2021				<0.1	<0.1	0.22			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.06 (J)
2/7/2017	0.09 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.09 (J)
4/17/2017	0.36
4/19/2017	
4/20/2017	
5/22/2017	0.05 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.32
7/11/2017	0.13 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.17 (J)
10/10/2017	0.35
10/11/2017	
10/12/2017	
3/26/2018	0.75
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.51
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.44
2/27/2019	
3/1/2019	0.24 (J)
4/2/2019	0.68
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
9/27/2019	0.13 (J)
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	0.057 (J)
3/19/2020	
3/20/2020	
3/23/2020	0.054 (J)
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.1
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.1
3/24/2021	
3/25/2021	<0.1
3/26/2021	
3/29/2021	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					<0.1				
10/18/2018	<0.1								
10/19/2018			<0.1						
10/22/2018		0.65		0.91					
4/2/2019					0.44				
4/4/2019	<0.1		0.035 (J)	0.26 (J)					
4/5/2019		0.66							
5/3/2019		1.3							
9/24/2019	<0.1		<0.1						
9/26/2019		0.15 (J)		0.11 (J)					
9/27/2019					0.26 (J)				
11/15/2019		0.51							
12/13/2019								0.16 (J)	
12/16/2019									0.13 (J)
2/25/2020				0.14 (J)		0.57			
2/26/2020	<0.1				0.13 (J)				
2/27/2020		0.13 (J)	<0.1				0.55	0.071 (J)	
2/28/2020									0.062 (J)
3/23/2020	<0.1				0.13 (J)				
3/24/2020		0.13 (J)	<0.1			0.43	0.61	0.06 (J)	
3/25/2020				0.17 (J)					<0.1
5/4/2020									
9/2/2020							0.47		
9/25/2020		0.097 (J)		0.17		0.34			
9/28/2020	<0.1		<0.1		0.1				
9/29/2020								<0.1	<0.1
2/19/2021			<0.1						
2/22/2021	<0.1			0.21		0.3		0.095 (J)	<0.1
2/23/2021		0.13							
3/8/2021					0.14				
3/9/2021							0.67		
3/25/2021					0.12				
3/26/2021				0.13		0.27			
3/29/2021	<0.1						0.73		
3/30/2021		0.14	<0.1						0.06 (J)
3/31/2021								0.08 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
12/16/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	<0.1
9/2/2020	0.088 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.099 (J)
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.077 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

2/23/2021	
3/8/2021	
3/24/2021	
3/29/2021	
3/30/2021	
3/31/2021	
4/1/2021	
4/19/2021	0.078 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.0024					<0.001			
6/7/2016							<0.001	<0.001	
8/9/2016	<0.001								
8/10/2016						<0.001			
8/11/2016									
8/12/2016								0.0001 (J)	
8/16/2016							<0.001		
8/22/2016		<0.001							
10/3/2016	<0.001								
10/4/2016		<0.001				<0.001			
10/6/2016								0.0002 (J)	
10/7/2016							<0.001		
11/29/2016	0.0002 (J)								
12/1/2016		<0.001				<0.001			
12/5/2016								0.0003 (J)	
12/6/2016							<0.001		
1/10/2017		<0.001							
2/13/2017	<0.001								
2/14/2017		<0.001				<0.001			
2/15/2017								<0.001	
2/16/2017							<0.001		
4/13/2017	<0.001					<0.001			
4/14/2017		<0.001							
4/18/2017							<0.001	<0.001	
5/25/2017	0.0001 (J)	<0.001				<0.001			
5/30/2017									
6/2/2017							<0.001	0.0001 (J)	
7/7/2017	<0.001					<0.001			
7/10/2017		<0.001							
7/12/2017							<0.001		
7/13/2017								0.0001 (J)	
7/14/2017									
3/26/2018	<0.001	<0.001							
3/27/2018							<0.001		
3/28/2018								<0.001	
2/25/2019	<0.001								
2/27/2019		<0.001							
2/28/2019							<0.001	<0.001	
4/1/2019	<0.001	<0.001						<0.001	
4/2/2019						7E-05 (J)	<0.001		
4/3/2019			<0.001						
9/23/2019	<0.001	<0.001				<0.001			
9/25/2019							0.00019 (J)	0.00063 (J)	
9/26/2019									
9/27/2019			<0.001						
2/18/2020	<0.001					<0.001			
2/19/2020		<0.001							
2/20/2020							0.00014 (J)		
2/21/2020			<0.001						
2/24/2020								<0.001	
3/18/2020	<0.001	<0.001							
3/19/2020						<0.001		<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			<0.001						
3/23/2020							<0.001		
5/22/2020				8.9E-05 (J)					7.3E-05 (J)
5/25/2020					0.00013 (J)				
6/23/2020				5.8E-05 (J)	8.1E-05 (J)				<0.001
7/28/2020				5.7E-05 (J)	5.2E-05 (J)				<0.001
9/2/2020				7.4E-05 (J)					<0.001
9/3/2020					3.8E-05 (J)				
9/23/2020	0.00014 (J)	<0.001				6.4E-05 (J)			
9/24/2020							<0.001		
9/25/2020			4.5E-05 (J)					<0.001	
10/1/2020				0.00021 (J)	0.00014 (J)				6.2E-05 (J)
11/10/2020				6.5E-05 (J)	0.00013 (J)				0.00011 (J)
12/15/2020				8E-05 (J)	0.00011 (J)				5.6E-05 (J)
1/20/2021				7.2E-05 (J)	0.00025 (J)				<0.001
2/16/2021	0.00011 (J)	4.2E-05 (J)							
2/17/2021				0.00015 (J)	0.00026 (J)				
2/18/2021						5.7E-05 (J)	<0.001		<0.001
2/19/2021			<0.001					8.7E-05 (J)	
3/23/2021		<0.001							
3/24/2021								0.00013 (J)	<0.001
3/25/2021				<0.001	0.00011 (J)				
3/26/2021	6.8E-05 (J)								
3/30/2021							<0.001		
3/31/2021						0.00016 (J)			
4/1/2021			<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	<0.001
8/9/2016	
8/10/2016	
8/11/2016	<0.001
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.001
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.001
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.001
4/13/2017	
4/14/2017	
4/18/2017	<0.001
5/25/2017	
5/30/2017	0.0001 (J)
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.0002 (J)
3/26/2018	
3/27/2018	<0.001
3/28/2018	
2/25/2019	<0.001
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	<0.001
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.00034 (J)
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	0.00014 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.00013 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.00021 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.00013 (J)
2/19/2021	
3/23/2021	
3/24/2021	8E-05 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.001								
6/8/2016		<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
6/9/2016							<0.001	0.00059 (J)	
8/11/2016	<0.001								
8/12/2016		0.0001 (J)	<0.001	<0.001					
8/15/2016									0.0005 (J)
8/18/2016					<0.001	<0.001	<0.001	<0.001	
10/7/2016	<0.001	<0.001	<0.001						
10/10/2016				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/6/2016	<0.001	0.0001 (J)							
12/7/2016			<0.001	<0.001			<0.001	<0.001	
12/8/2016					<0.001	<0.001			0.0006 (J)
1/23/2017									
2/7/2017									
2/16/2017	<0.001	0.0002 (J)	<0.001						
2/17/2017				<0.001	<0.001	<0.001			
2/20/2017							<0.001	<0.001	0.0004 (J)
3/27/2017									
4/17/2017									
4/19/2017	<0.001	0.0001 (J)	0.0006 (J)	<0.001	<0.001		<0.001	<0.001	
4/20/2017						<0.001			0.0002 (J)
5/22/2017									
5/30/2017	<0.001								
6/1/2017		9E-05 (J)	<0.001	0.0001 (J)	<0.001				7E-05 (J)
6/5/2017						<0.001	<0.001	7E-05 (J)	
7/11/2017									
7/14/2017	<0.001	0.0001 (J)	<0.001						
7/17/2017							<0.001	<0.001	<0.001
7/18/2017				<0.001	<0.001				
7/19/2017						<0.001			
8/23/2017									
3/26/2018									
3/27/2018	<0.001	<0.001	<0.001						
3/28/2018				<0.001	<0.001				<0.001
3/29/2018						<0.001	<0.001	<0.001	
2/27/2019	<0.001	<0.001		<0.001					
3/1/2019			<0.001			0.00033 (J)	<0.001	<0.001	<0.001
4/2/2019	<0.001	8.1E-05 (J)							
4/3/2019			<0.001	<0.001	6.8E-05 (J)	<0.001	<0.001	<0.001	
4/4/2019									<0.001
9/26/2019	<0.001	<0.001	<0.001	<0.001					
9/27/2019						5.4E-05 (J)	<0.001		
9/30/2019					7.3E-05 (J)			<0.001	<0.001
2/24/2020	7.9E-05 (J)	<0.001	<0.001	<0.001					
2/25/2020						<0.001	<0.001		
2/26/2020					5.3E-05 (J)			<0.001	<0.001
3/19/2020	<0.001								
3/20/2020		<0.001	<0.001		6E-05 (J)	<0.001			
3/23/2020				<0.001			<0.001		
3/24/2020									<0.001
3/25/2020								5.4E-05 (J)	
9/24/2020	<0.001	<0.001			5E-05 (J)	0.00014 (J)	0.00014 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/25/2020								0.0001 (J)	
9/28/2020			3.8E-05 (J)	8.3E-05 (J)					5.1E-05 (J)
2/18/2021	<0.001	<0.001	<0.001	<0.001					
2/19/2021					8.7E-05 (J)	0.00011 (J)	<0.001	4.3E-05 (J)	
2/23/2021									7.4E-05 (J)
3/8/2021									
3/24/2021	<0.001	<0.001							
3/25/2021									
3/26/2021			<0.001				0.00031 (J)	7.1E-05 (J)	0.00013 (J)
3/29/2021				<0.001	9.4E-05 (J)	6.1E-05 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0003 (J)
2/7/2017	0.0002 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	8E-05 (J)
4/17/2017	<0.001
4/19/2017	
4/20/2017	
5/22/2017	<0.001
5/30/2017	
6/1/2017	
6/5/2017	<0.001
7/11/2017	8E-05 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	<0.001
3/26/2018	<0.001
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	<0.001
4/2/2019	<0.001
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.00018 (J)
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	0.00035 (J)
3/19/2020	
3/20/2020	
3/23/2020	0.00011 (J)
3/24/2020	
3/25/2020	
9/24/2020	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
9/25/2020	0.00016 (J)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.00018 (J)
3/24/2021	
3/25/2021	0.00015 (J)
3/26/2021	
3/29/2021	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
4/2/2019					0.00067 (J)				
4/4/2019	0.00065 (J)		5.4E-05 (J)	0.00023 (J)					
4/5/2019		<0.001							
9/24/2019	0.0004 (J)		<0.001						
9/26/2019		<0.001		6.9E-05 (J)					
9/27/2019					0.0005 (J)				
2/25/2020				0.00025 (J)		0.00011 (J)			
2/26/2020	7.6E-05 (J)				0.00033 (J)				
2/27/2020		<0.001	<0.001				0.00025 (J)	<0.001	
2/28/2020									0.00014 (J)
3/23/2020	0.00028 (J)				0.00014 (J)				
3/24/2020		<0.001	<0.001			7.3E-05 (J)	0.00016 (J)	0.0001 (J)	
3/25/2020				0.00018 (J)					0.00017 (J)
9/2/2020							0.00022 (J)		
9/25/2020		0.00011 (J)		0.00037 (J)		0.00029 (J)			
9/28/2020	0.0013 (J)		<0.001		0.00017 (J)				
9/29/2020								<0.001	0.00024 (J)
2/19/2021			<0.001						
2/22/2021	0.00045 (J)			0.00011 (J)		8.2E-05 (J)		<0.001	0.00014 (J)
2/23/2021		7.2E-05 (J)							
3/8/2021					0.00011 (J)				
3/9/2021							<0.001		
3/25/2021					<0.001				
3/26/2021				<0.001		<0.001			
3/29/2021	0.00061 (J)						<0.001		
3/30/2021		<0.001	<0.001						0.00018 (J)
3/31/2021							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	<0.001
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.001
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	3.6E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016	
6/7/2016	
6/8/2016	
8/10/2016	
8/11/2016	
10/4/2016	
10/5/2016	
10/6/2016	
12/2/2016	
12/5/2016	
12/6/2016	
2/14/2017	
2/15/2017	
4/14/2017	
4/17/2017	
4/18/2017	
5/26/2017	
6/2/2017	
7/10/2017	
7/11/2017	
7/14/2017	
3/26/2018	
3/27/2018	
2/25/2019	
2/28/2019	
4/1/2019	
4/2/2019	
9/24/2019	
2/19/2020	
2/20/2020	
2/21/2020	
3/18/2020	
3/19/2020	
9/3/2020	
9/23/2020	
9/24/2020	
9/25/2020	
1/28/2021	
2/16/2021	
2/17/2021	
2/18/2021	
2/22/2021	
2/23/2021	
3/8/2021	
3/24/2021	
3/29/2021	
3/30/2021	
3/31/2021	
4/1/2021	
4/19/2021	0.00014 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.03					<0.03			
6/7/2016							0.0065	<0.03	
8/9/2016	<0.03								
8/10/2016						<0.03			
8/11/2016									
8/12/2016								<0.03	
8/16/2016							<0.03		
8/22/2016		<0.03							
10/3/2016	<0.03								
10/4/2016		<0.03				<0.03			
10/6/2016								<0.03	
10/7/2016							<0.03		
11/29/2016	<0.03								
12/1/2016		<0.03				<0.03			
12/5/2016								<0.03	
12/6/2016							<0.03		
1/10/2017		<0.03							
2/13/2017	<0.03								
2/14/2017		<0.03				<0.03			
2/15/2017								<0.03	
2/16/2017							<0.03		
4/13/2017	<0.03					<0.03			
4/14/2017		<0.03							
4/18/2017		<0.03					0.0011 (J)	<0.03	
5/25/2017	<0.03	<0.03				<0.03			
5/30/2017									
6/2/2017							0.0011 (J)	<0.03	
7/7/2017	<0.03					<0.03			
7/10/2017		<0.03							
7/12/2017							<0.03		
7/13/2017								<0.03	
7/14/2017									
3/26/2018	<0.03	<0.03							
3/27/2018							0.0025 (J)		
3/28/2018								<0.03	
6/12/2018	<0.03	<0.03							
6/14/2018							0.0011 (J)	<0.03	
10/16/2018	<0.03	<0.03				<0.03			
10/17/2018								<0.03	
10/18/2018							0.0016 (J)		
2/25/2019	<0.03								
2/27/2019		<0.03							
2/28/2019							0.0017 (J)	0.0011 (J)	
4/1/2019	<0.03	0.00059 (J)						0.00078 (J)	
4/2/2019						<0.03	0.0012 (J)		
4/3/2019			<0.03						
9/23/2019	<0.03	0.00089 (J)				<0.03			
9/25/2019							<0.03	0.001 (J)	
9/26/2019									
9/27/2019			<0.03						
2/18/2020	<0.03					<0.03			
2/19/2020		<0.03							

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							0.00093 (J)		
2/21/2020			<0.03						
2/24/2020								0.00091 (J)	
3/18/2020	<0.03	<0.03							
3/19/2020						<0.03		0.00097 (J)	
3/20/2020			<0.03						
3/23/2020							0.00084 (J)		
5/22/2020				<0.03					<0.03
5/25/2020					0.0011 (J)				
6/23/2020				<0.03	<0.03				<0.03
7/28/2020				<0.03	0.0014 (J)				<0.03
9/2/2020				<0.03					0.00095 (J)
9/3/2020					0.0014 (J)				
9/23/2020	<0.03	0.00085 (J)				<0.03			
9/24/2020							0.0013 (J)		
9/25/2020			<0.03					0.001 (J)	
10/1/2020				<0.03	0.0011 (J)				0.00095 (J)
11/10/2020				<0.03	<0.03				<0.03
12/15/2020				<0.03	0.00089				0.00091
1/20/2021				<0.03	0.00091 (J)				0.00082 (J)
2/16/2021	<0.03	<0.03							
2/17/2021				<0.03	0.00099 (J)				
2/18/2021						<0.03	0.0011 (J)		<0.03
2/19/2021			<0.03					0.0011 (J)	
3/23/2021		0.00087 (J)							
3/24/2021								0.0012 (J)	<0.03
3/25/2021				<0.03	<0.03				
3/26/2021	<0.03								
3/30/2021							0.00092 (J)		
3/31/2021						0.00082 (J)			
4/1/2021			<0.03						

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16	
6/6/2016	
6/7/2016	<0.03
8/9/2016	
8/10/2016	
8/11/2016	<0.03
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.03
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.03
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.03
4/13/2017	
4/14/2017	
4/18/2017	<0.03
5/25/2017	
5/30/2017	<0.03
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.03
3/26/2018	
3/27/2018	<0.03
3/28/2018	
6/12/2018	<0.03
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	<0.03
2/25/2019	<0.03
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.00049 (J)
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	<0.03
9/27/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	<0.03
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	<0.03
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	<0.03
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	<0.03
2/19/2021	
3/23/2021	
3/24/2021	<0.03
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.03								
6/8/2016		<0.03	<0.03	0.016	<0.03	0.012			<0.03
6/9/2016							0.0074	0.0057	
8/11/2016	<0.03								
8/12/2016		<0.03	<0.03	0.0202 (J)					
8/15/2016									<0.03
8/18/2016					<0.03	0.0118 (J)	0.0078 (J)	0.0061 (J)	
10/7/2016	<0.03	<0.03	<0.03						
10/10/2016				0.0194 (J)	<0.03	0.0137 (J)	0.0093 (J)	0.006 (J)	<0.03
12/6/2016	<0.03	<0.03							
12/7/2016			<0.03	0.0265 (J)			0.0117 (J)	0.0066 (J)	
12/8/2016					<0.03	0.0154 (J)			<0.03
1/23/2017									
2/7/2017									
2/16/2017	<0.03	<0.03	<0.03						
2/17/2017				0.0253 (J)	<0.03	0.0125 (J)			
2/20/2017							0.011 (J)	0.0053 (J)	<0.03
3/27/2017									
4/17/2017									
4/19/2017	<0.03	<0.03	<0.03	0.0233 (J)	<0.03		0.0105 (J)	0.0055 (J)	
4/20/2017						0.012 (J)			<0.03
5/22/2017									
5/30/2017	<0.03								
6/1/2017		<0.03	<0.03	0.023 (J)	<0.03				<0.03
6/5/2017						0.0114 (J)	0.0108 (J)	0.0068 (J)	
7/11/2017									
7/14/2017	<0.03	<0.03	<0.03						
7/17/2017							0.0095 (J)	<0.03	<0.03
7/18/2017				0.0207 (J)	<0.03				
7/19/2017						0.0126 (J)			
8/23/2017									
3/26/2018									
3/27/2018	<0.03	<0.03	<0.03						
3/28/2018				0.013 (J)	<0.03				<0.03
3/29/2018						0.021 (J)	0.014 (J)	0.0053 (J)	
6/13/2018				0.02 (J)			0.014 (J)	0.0067 (J)	
6/14/2018	<0.03	<0.03			<0.03	0.024 (J)			<0.03
6/15/2018			<0.03						
10/17/2018	<0.03								
10/18/2018		<0.03							
10/19/2018			<0.03		<0.03				
10/22/2018				0.016 (J)		0.034 (J)	0.016 (J)	0.0075 (J)	<0.03
2/27/2019	<0.03	<0.03		0.015 (J)					
3/1/2019			<0.03			0.022 (J)	0.017 (J)	0.0068 (J)	<0.03
4/2/2019	0.00069 (J)	<0.03							
4/3/2019			<0.03	0.012 (J)	<0.03	0.024 (J)	0.013 (J)	0.0048 (J)	
4/4/2019									<0.03
9/26/2019	<0.03	<0.03	<0.03	0.018 (J)					
9/27/2019						0.039	0.024 (J)		
9/30/2019					<0.03			0.0077 (J)	<0.03
2/24/2020	<0.03	<0.03	<0.03	0.021 (J)					
2/25/2020						0.026 (J)	0.033		

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/26/2020					<0.03			0.0082 (J)	<0.03
3/19/2020	<0.03								
3/20/2020		<0.03	<0.03		<0.03	0.029 (J)			
3/23/2020				0.02 (J)			0.032		
3/24/2020									<0.03
3/25/2020								0.0078 (J)	
9/24/2020	<0.03	<0.03			<0.03	0.043	0.031		
9/25/2020								0.0078 (J)	
9/28/2020			<0.03	0.027 (J)					<0.03
2/18/2021	<0.03	<0.03	<0.03	0.041					
2/19/2021					<0.03	0.035	0.04	0.0086 (J)	
2/23/2021									<0.03
3/8/2021									
3/24/2021	<0.03	<0.03							
3/25/2021									
3/26/2021			<0.03				0.039 (J)	<0.03	<0.03
3/29/2021				0.036	<0.03	0.033			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0171 (J)
2/7/2017	0.0196 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0192 (J)
4/17/2017	0.0169 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0167 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0177 (J)
7/11/2017	0.0203 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0182 (J)
3/26/2018	0.0063 (J)
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.0049 (J)
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.005 (J)
2/27/2019	
3/1/2019	0.0044 (J)
4/2/2019	0.0041 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.0012 (J)
9/30/2019	
2/24/2020	
2/25/2020	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
2/26/2020	0.00096 (J)
3/19/2020	
3/20/2020	
3/23/2020	0.0014 (J)
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	0.0011 (J)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.0012 (J)
3/24/2021	
3/25/2021	<0.03
3/26/2021	
3/29/2021	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					0.0044 (J)				
10/18/2018	<0.03								
10/19/2018			0.00098 (J)						
10/22/2018		<0.03		0.011 (J)					
4/2/2019					0.0021 (J)				
4/4/2019	<0.03		0.00068 (J)	0.0096 (J)					
4/5/2019		<0.03							
9/24/2019	<0.03		<0.03						
9/26/2019		<0.03		0.013					
9/27/2019					0.0028 (J)				
2/25/2020				0.011 (J)		0.044			
2/26/2020	<0.03				0.001 (J)				
2/27/2020		<0.03	<0.03				0.02 (J)	0.0036 (J)	
2/28/2020									0.00084 (J)
3/23/2020	<0.03				<0.03				
3/24/2020		<0.03	<0.03			0.025 (J)	0.019 (J)	0.0029 (J)	
3/25/2020				0.0092 (J)					0.00079 (J)
9/2/2020							0.0096 (J)		
9/25/2020		<0.03		0.0062 (J)		0.014 (J)			
9/28/2020	<0.03		<0.03		0.0011 (J)				
9/29/2020								0.0066 (J)	<0.03
2/19/2021			<0.03						
2/22/2021	<0.03			0.014 (J)		0.0092 (J)		0.0038 (J)	<0.03
2/23/2021		<0.03							
3/8/2021					0.0017 (J)				
3/9/2021							0.011 (J)		
3/25/2021					0.0022 (J)				
3/26/2021				0.02 (J)		0.0066 (J)			
3/29/2021	<0.03						0.012 (J)		
3/30/2021		<0.03	<0.03						0.00086 (J)
3/31/2021							0.0039 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.00092 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.0017 (J)
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.0017 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						<0.03			
6/7/2016					<0.03				
6/8/2016				0.0079					
8/10/2016					<0.03				
8/11/2016				0.0093 (J)		<0.03			
10/4/2016					<0.03				
10/5/2016						<0.03			
10/6/2016				0.0102 (J)					
12/2/2016					<0.03				
12/5/2016						<0.03			
12/6/2016				0.0094 (J)					
2/14/2017					<0.03				
2/15/2017				<0.03		<0.03			
4/14/2017					<0.03				
4/17/2017						0.0013 (J)			
4/18/2017				0.0086 (J)					
5/26/2017					<0.03	0.0013 (J)			
6/2/2017				0.0102 (J)					
7/10/2017					<0.03				
7/11/2017						<0.03			
7/14/2017				0.0092 (J)					
3/26/2018					<0.03				
3/27/2018				0.0087 (J)		0.0014 (J)			
6/12/2018					<0.03	0.0012 (J)			
6/13/2018				0.0084 (J)					
10/16/2018					0.001 (J)				
10/17/2018						<0.03			
10/18/2018				0.0083 (J)					
2/25/2019					<0.03				
2/28/2019				0.0086 (J)					
4/1/2019					<0.03	0.0012 (J)			
4/2/2019				0.0073 (J)					
9/24/2019				0.0083 (J)	<0.03	0.0011 (J)			
2/19/2020					<0.03				
2/20/2020						0.002 (J)			
2/21/2020				0.0088 (J)					
3/18/2020					<0.03				
3/19/2020				0.0097 (J)		0.0019 (J)			
9/3/2020	0.0014 (J)	0.023 (J)	0.0016 (J)						
9/23/2020					<0.03				
9/24/2020						0.0011 (J)			
9/25/2020				0.0065 (J)					
1/28/2021							0.0017 (J)	0.0037 (J)	
2/16/2021					<0.03				
2/17/2021						0.0013 (J)			
2/18/2021			0.0035 (J)	0.0072 (J)					
2/22/2021	<0.03								
2/23/2021							0.0015 (J)	0.0038 (J)	
3/8/2021		0.024 (J)							
3/24/2021					<0.03	0.0014 (J)			
3/29/2021		0.026 (J)							
3/30/2021				0.0084 (J)			0.0035 (J)	0.0038 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021 <0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	7.7E-05 (J)					8.4E-05 (J)			
6/7/2016							0.0001 (J)	0.0001 (J)	
8/9/2016	<0.0002								
8/10/2016						<0.0002			
8/11/2016									
8/12/2016								<0.0002	
8/16/2016							<0.0002		
8/22/2016		<0.0002							
10/3/2016	<0.0002								
10/4/2016		<0.0002				<0.0002			
10/6/2016								<0.0002	
10/7/2016							<0.0002		
11/29/2016	<0.0002								
12/1/2016		<0.0002				<0.0002			
12/5/2016								<0.0002	
12/6/2016							<0.0002		
1/10/2017		<0.0002							
2/13/2017	<0.0002								
2/14/2017		<0.0002				<0.0002			
2/15/2017								<0.0002	
2/16/2017							<0.0002		
4/13/2017	<0.0002					<0.0002			
4/14/2017		<0.0002							
4/18/2017							<0.0002	<0.0002	
5/25/2017	<0.0002	<0.0002				<0.0002			
5/30/2017									
6/2/2017							<0.0002	<0.0002	
7/7/2017	<0.0002					<0.0002			
7/10/2017		<0.0002							
7/12/2017							<0.0002		
7/13/2017								<0.0002	
7/14/2017									
3/26/2018	<0.0002	<0.0002							
3/27/2018							<0.0002		
3/28/2018								<0.0002	
2/25/2019	<0.0002								
2/27/2019		6.5E-05 (J)							
2/28/2019							4.8E-05 (J)	5.8E-05 (J)	
4/1/2019	<0.0002	<0.0002						<0.0002	
4/2/2019						<0.0002	<0.0002		
4/3/2019			<0.0002						
9/23/2019	<0.0002	<0.0002				<0.0002			
9/25/2019							<0.0002	<0.0002	
9/26/2019									
9/27/2019			<0.0002						
2/18/2020	<0.0002					<0.0002			
2/19/2020		<0.0002							
2/20/2020							<0.0002		
2/21/2020			<0.0002						
2/24/2020								<0.0002	
3/18/2020	<0.0002	<0.0002							
3/19/2020						<0.0002		<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			<0.0002						
3/23/2020							<0.0002		
5/22/2020				<0.0002					<0.0002
5/25/2020					<0.0002				
6/23/2020				<0.0002	<0.0002				<0.0002
7/28/2020				<0.0002	<0.0002				<0.0002
9/2/2020				<0.0002					<0.0002
9/3/2020					<0.0002				
9/23/2020	<0.0002	<0.0002				<0.0002			
9/24/2020							<0.0002		
9/25/2020			8.7E-05 (J)					<0.0002	
10/1/2020				<0.0002	<0.0002				<0.0002
11/10/2020				<0.0002	<0.0002				<0.0002
12/15/2020				<0.0002	<0.0002				<0.0002
1/20/2021				<0.0002	<0.0002				<0.0002
2/16/2021	<0.0002	<0.0002							
2/17/2021				<0.0002	<0.0002				
2/18/2021						<0.0002	<0.0002		<0.0002
2/19/2021			<0.0002					<0.0002	
3/23/2021		<0.0002							
3/24/2021								<0.0002	<0.0002
3/25/2021				<0.0002	<0.0002				
3/26/2021	<0.0002								
3/30/2021							<0.0002		
3/31/2021						<0.0002			
4/1/2021			<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	9.8E-05 (J)
8/9/2016	
8/10/2016	
8/11/2016	<0.0002
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.0002
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.0002
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.0002
4/13/2017	
4/14/2017	
4/18/2017	<0.0002
5/25/2017	
5/30/2017	<0.0002
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.0002
3/26/2018	
3/27/2018	<0.0002
3/28/2018	
2/25/2019	<0.0002
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	<0.0002
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	<0.0002
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	<0.0002
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	<0.0002
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	<0.0002
2/19/2021	
3/23/2021	
3/24/2021	<0.0002
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	0.00017 (J)								
6/8/2016		<0.0002	<0.0002	<0.0002	<0.0002	9.2E-05 (J)			<0.0002
6/9/2016							<0.0002	<0.0002	
8/11/2016	0.00019 (J)								
8/12/2016		<0.0002	<0.0002	<0.0002					
8/15/2016									<0.0002
8/18/2016					<0.0002	<0.0002	<0.0002	<0.0002	
10/7/2016	0.00014 (J)	<0.0002	<0.0002						
10/10/2016				<0.0002	<0.0002	<0.0002	<0.0002	4E-05 (J)	<0.0002
12/6/2016	0.00016 (J)	<0.0002							
12/7/2016			8E-05 (J)	<0.0002			5E-05 (J)	7E-05 (J)	
12/8/2016					<0.0002	<0.0002			<0.0002
1/23/2017									
2/7/2017									
2/16/2017	0.00017 (J)	<0.0002	<0.0002						
2/17/2017				<0.0002	<0.0002	<0.0002			
2/20/2017							<0.0002	5E-05 (J)	<0.0002
3/27/2017									
4/17/2017									
4/19/2017	0.00014 (J)	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	0.00016 (J)	
4/20/2017						<0.0002			<0.0002
5/22/2017									
5/30/2017	0.00023 (J)								
6/1/2017		<0.0002	<0.0002	<0.0002	<0.0002				<0.0002
6/5/2017						<0.0002	<0.0002	0.00013 (J)	
7/11/2017									
7/14/2017	0.00016 (J)	<0.0002	<0.0002						
7/17/2017							<0.0002	0.00013 (J)	<0.0002
7/18/2017				<0.0002	<0.0002				
7/19/2017						<0.0002			
8/23/2017									
3/26/2018									
3/27/2018	<0.0002	<0.0002	<0.0002						
3/28/2018				<0.0002	<0.0002				<0.0002
3/29/2018						<0.0002	<0.0002	<0.0002	
2/27/2019	0.00029 (J)	7.9E-05 (J)		6.6E-05 (J)					
3/1/2019			5E-05 (J)			4.2E-05 (J)	4.4E-05 (J)	0.00093	4.7E-05 (J)
4/2/2019	0.0004	<0.0002							
4/3/2019			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0013	
4/4/2019									<0.0002
9/26/2019	<0.0002	<0.0002	<0.0002	<0.0002					
9/27/2019						<0.0002	<0.0002		
9/30/2019					<0.0002			0.0011	<0.0002
2/24/2020	0.0003 (J)	<0.0002	<0.0002	<0.0002					
2/25/2020						<0.0002	<0.0002		
2/26/2020					<0.0002			0.0011	<0.0002
3/19/2020	0.00017 (J)								
3/20/2020		<0.0002	<0.0002		<0.0002	<0.0002			
3/23/2020				<0.0002			<0.0002		
3/24/2020									<0.0002
3/25/2020								0.0011	
9/24/2020	0.00027 (J)	<0.0002			<0.0002	<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/25/2020								0.0036	
9/28/2020			<0.0002	<0.0002					<0.0002
2/18/2021	0.00017 (J)	<0.0002	<0.0002	<0.0002					
2/19/2021					<0.0002	<0.0002	<0.0002	0.0033	
2/23/2021									<0.0002
3/8/2021									
3/24/2021	0.00012 (J)	<0.0002							
3/25/2021									
3/26/2021			<0.0002				<0.0002	0.0058	<0.0002
3/29/2021				<0.0002	<0.0002	<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	8E-05 (J)
2/7/2017	0.00011 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	8E-05 (J)
4/17/2017	4E-05 (J)
4/19/2017	
4/20/2017	
5/22/2017	<0.0002
5/30/2017	
6/1/2017	
6/5/2017	6E-05 (J)
7/11/2017	9.1E-05 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	5E-05 (J)
3/26/2018	<0.0002
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	0.0001 (J)
4/2/2019	<0.0002
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	<0.0002
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	<0.0002
3/19/2020	
3/20/2020	
3/23/2020	<0.0002
3/24/2020	
3/25/2020	
9/24/2020	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

9/25/2020	<0.0002
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.0002
3/24/2021	
3/25/2021	<0.0002
3/26/2021	
3/29/2021	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
4/2/2019					<0.0002				
4/4/2019	<0.0002		<0.0002	<0.0002					
4/5/2019		<0.0002							
9/24/2019	<0.0002		<0.0002						
9/26/2019		<0.0002		<0.0002					
9/27/2019					<0.0002				
2/25/2020				<0.0002		<0.0002			
2/26/2020	<0.0002				0.00018 (J)				
2/27/2020		<0.0002	<0.0002				<0.0002	<0.0002	
2/28/2020									<0.0002
3/23/2020	<0.0002				<0.0002				
3/24/2020		<0.0002	<0.0002			<0.0002	<0.0002	<0.0002	
3/25/2020				<0.0002					<0.0002
9/2/2020							0.0001 (J)		
9/25/2020		<0.0002		<0.0002		<0.0002			
9/28/2020	<0.0002		<0.0002		<0.0002				
9/29/2020								<0.0002	<0.0002
2/19/2021			<0.0002						
2/22/2021	<0.0002			<0.0002		<0.0002		<0.0002	<0.0002
2/23/2021		<0.0002							
3/8/2021					<0.0002				
3/9/2021							<0.0002		
3/25/2021					<0.0002				
3/26/2021				<0.0002		<0.0002			
3/29/2021	<0.0002						<0.0002		
3/30/2021		<0.0002	<0.0002						<0.0002
3/31/2021							<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	<0.0002
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.0002
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016	
6/7/2016	
6/8/2016	
8/10/2016	
8/11/2016	
10/4/2016	
10/5/2016	
10/6/2016	
12/2/2016	
12/5/2016	
12/6/2016	
2/14/2017	
2/15/2017	
4/14/2017	
4/17/2017	
4/18/2017	
5/26/2017	
6/2/2017	
7/10/2017	
7/11/2017	
7/14/2017	
3/26/2018	
3/27/2018	
2/25/2019	
2/28/2019	
4/1/2019	
4/2/2019	
9/24/2019	
2/19/2020	
2/20/2020	
2/21/2020	
3/18/2020	
3/19/2020	
9/3/2020	
9/23/2020	
9/24/2020	
9/25/2020	
1/28/2021	
2/16/2021	
2/17/2021	
2/18/2021	
2/22/2021	
2/23/2021	
3/8/2021	
3/24/2021	
3/29/2021	
3/30/2021	
3/31/2021	
4/1/2021	
4/19/2021	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	0.0015 (J)					<0.01			
6/7/2016							0.0067 (J)	<0.01	
8/9/2016	0.0016 (J)								
8/10/2016						<0.01			
8/11/2016									
8/12/2016								<0.01	
8/16/2016							0.0032 (J)		
8/22/2016		<0.01							
10/3/2016	<0.01								
10/4/2016		<0.01				<0.01			
10/6/2016								<0.01	
10/7/2016							0.0032 (J)		
11/29/2016	0.0022 (J)								
12/1/2016		<0.01				<0.01			
12/5/2016								<0.01	
12/6/2016							0.0049 (J)		
1/10/2017		<0.01							
2/13/2017	0.002 (J)								
2/14/2017		<0.01				<0.01			
2/15/2017								<0.01	
2/16/2017							0.0039 (J)		
4/13/2017	0.0025 (J)					<0.01			
4/14/2017		<0.01							
4/18/2017							0.0032 (J)	<0.01	
5/25/2017	0.002 (J)	<0.01				<0.01			
5/30/2017									
6/2/2017							0.0035 (J)	<0.01	
7/7/2017	0.0017 (J)					<0.01			
7/10/2017		<0.01							
7/12/2017							0.0037 (J)		
7/13/2017								<0.01	
7/14/2017									
3/26/2018	<0.01	<0.01							
3/27/2018							0.0032 (J)		
3/28/2018								<0.01	
6/12/2018	<0.01	<0.01							
6/14/2018							0.0033 (J)	<0.01	
10/16/2018	<0.01	<0.01				<0.01			
10/17/2018								<0.01	
10/18/2018							0.0034 (J)		
2/25/2019	<0.01								
2/27/2019		<0.01							
2/28/2019							0.0035 (J)	<0.01	
4/1/2019	0.0014 (J)	0.00053 (J)						<0.01	
4/2/2019						0.00026 (J)	0.0032 (J)		
4/3/2019			0.034						
5/2/2019	<0.01								
7/9/2019			0.034						
9/23/2019	0.0017 (J)	<0.01				<0.01			
9/25/2019							0.0035 (J)	<0.01	
9/26/2019									
9/27/2019			0.019						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/18/2020	<0.01					<0.01			
2/19/2020		<0.01							
2/20/2020							0.0037 (J)		
2/21/2020			0.029						
2/24/2020								<0.01	
3/18/2020	0.0012 (J)	<0.01							
3/19/2020						<0.01		<0.01	
3/20/2020			0.032						
3/23/2020							0.0035 (J)		
5/22/2020				0.0011 (J)					0.0012 (J)
5/25/2020					0.003 (J)				
6/23/2020				<0.01	0.0048 (J)				<0.01
7/28/2020				<0.01	0.0073 (J)				0.00094 (J)
9/2/2020				<0.01					0.0013 (J)
9/3/2020					0.0074 (J)				
9/23/2020	<0.01	<0.01				<0.01			
9/24/2020							0.0032 (J)		
9/25/2020			0.032					<0.01	
10/1/2020				<0.01	0.0046 (J)				0.0017 (J)
11/10/2020				<0.01	0.0016 (J)				0.0016 (J)
12/15/2020				<0.01	0.0021				0.0019
1/20/2021				<0.01	0.0018 (J)				0.0016 (J)
2/16/2021	0.0011 (J)	<0.01							
2/17/2021				<0.01	0.0017 (J)				
2/18/2021						<0.01	0.0036 (J)		0.0045 (J)
2/19/2021			0.029					<0.01	
3/23/2021		<0.01							
3/24/2021								<0.01	<0.01
3/25/2021				<0.01	0.0015 (J)				
3/26/2021	0.00092 (J)								
3/30/2021							0.0035 (J)		
3/31/2021						0.001 (J)			
4/1/2021			0.026						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	<0.01
8/9/2016	
8/10/2016	
8/11/2016	<0.01
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.01
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.01
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	<0.01
4/13/2017	
4/14/2017	
4/18/2017	<0.01
5/25/2017	
5/30/2017	<0.01
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.01
3/26/2018	
3/27/2018	<0.01
3/28/2018	
6/12/2018	<0.01
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	<0.01
2/25/2019	<0.01
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	<0.01
4/3/2019	
5/2/2019	
7/9/2019	
9/23/2019	
9/25/2019	
9/26/2019	<0.01
9/27/2019	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

2/18/2020	
2/19/2020	
2/20/2020	<0.01
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	<0.01
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	<0.01
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	<0.01
2/19/2021	
3/23/2021	
3/24/2021	<0.01
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	<0.01								
6/8/2016		<0.01	<0.01	0.011 (J)	0.0027 (J)	0.07			0.0064 (J)
6/9/2016							0.013 (J)	0.0024 (J)	
8/11/2016	<0.01								
8/12/2016		<0.01	<0.01	0.0127					
8/15/2016									0.0039 (J)
8/18/2016					0.0023 (J)	0.0758	0.0136	0.0034 (J)	
10/7/2016	<0.01	<0.01	<0.01						
10/10/2016				0.0136	0.0025 (J)	0.0712	0.0134	0.0047 (J)	0.0029 (J)
12/6/2016	<0.01	<0.01							
12/7/2016			<0.01	0.0139			0.0128	0.0066 (J)	
12/8/2016					<0.01	0.0682			<0.01
1/23/2017									
2/7/2017									
2/16/2017	<0.01	<0.01	<0.01						
2/17/2017				0.0148	<0.01	0.066			
2/20/2017							0.0122	0.0026 (J)	0.0024 (J)
3/27/2017									
4/17/2017									
4/19/2017	<0.01	<0.01	<0.01	0.012	0.0014 (J)		0.0124	0.002 (J)	
4/20/2017						0.0662			0.0019 (J)
5/22/2017									
5/30/2017	<0.01								
6/1/2017		<0.01	<0.01	0.0125	0.0012 (J)				0.0026 (J)
6/5/2017						0.071	0.0115	0.0015 (J)	
7/11/2017									
7/14/2017	<0.01	<0.01	<0.01						
7/17/2017							0.0131	0.0013 (J)	0.0024 (J)
7/18/2017				0.0155	0.0013 (J)				
7/19/2017						0.0703			
8/23/2017									
3/26/2018									
3/27/2018	<0.01	<0.01	<0.01						
3/28/2018				0.012	<0.01				<0.01
3/29/2018						0.056	0.013	0.0027 (J)	
6/13/2018				0.016			0.013	<0.01	
6/14/2018	<0.01	<0.01			<0.01	0.059			<0.01
6/15/2018			<0.01						
10/17/2018	<0.01								
10/18/2018		<0.01							
10/19/2018			<0.01		<0.01				
10/22/2018				0.013		0.055	0.013	<0.01	<0.01
2/27/2019	<0.01	<0.01		0.013					
3/1/2019			<0.01			0.039	0.013	<0.01	<0.01
4/2/2019	<0.01	<0.01							
4/3/2019			0.00023 (J)	0.012	0.0019 (J)	0.039	0.012	0.00095 (J)	
4/4/2019									0.00096 (J)
5/2/2019						0.043			
9/26/2019	<0.01	<0.01	<0.01	0.015					
9/27/2019						0.045	0.012		
9/30/2019					0.003 (J)			0.00099 (J)	<0.01
2/24/2020	<0.01	<0.01	<0.01	0.015					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/25/2020						0.039	0.014		
2/26/2020					0.0016 (J)			<0.01	<0.01
3/19/2020	<0.01								
3/20/2020		<0.01	<0.01		0.0023 (J)	0.039			
3/23/2020				0.016			0.013		
3/24/2020									<0.01
3/25/2020								<0.01	
9/24/2020	<0.01	<0.01			0.0036 (J)	0.04	0.011		
9/25/2020								0.00081 (J)	
9/28/2020			<0.01	0.018					<0.01
2/18/2021	<0.01	<0.01	<0.01	0.028					
2/19/2021					0.0013 (J)	0.046	0.011	<0.01	
2/23/2021									<0.01
3/8/2021									
3/24/2021	<0.01	<0.01							
3/25/2021									
3/26/2021			<0.01				0.011 (J)	<0.01	<0.01
3/29/2021				0.024	0.0021 (J)	0.045			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0125
2/7/2017	0.0163
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0157
4/17/2017	0.0178
4/19/2017	
4/20/2017	
5/22/2017	0.0208
5/30/2017	
6/1/2017	
6/5/2017	0.0191
7/11/2017	0.0218
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0218
3/26/2018	0.014
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.012
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.01
2/27/2019	
3/1/2019	0.011
4/2/2019	0.01
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	0.0036 (J)
9/30/2019	
2/24/2020	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

2/25/2020	
2/26/2020	0.0023 (J)
3/19/2020	
3/20/2020	
3/23/2020	0.0037 (J)
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	0.0027 (J)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.0031 (J)
3/24/2021	
3/25/2021	0.0017 (J)
3/26/2021	
3/29/2021	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					0.017				
10/18/2018	<0.01								
10/19/2018			0.0021 (J)						
10/22/2018		0.0038 (J)		0.033					
11/29/2018				0.03					
1/14/2019					0.013				
4/2/2019					0.011				
4/4/2019	0.00033 (J)		0.0011 (J)	0.03					
4/5/2019		0.0035 (J)							
5/2/2019							0.11		
5/3/2019		0.0048 (J)				0.04			
9/24/2019	<0.01		<0.01						
9/26/2019		0.003 (J)		0.033					
9/27/2019					0.013				
2/25/2020				0.026		0.012			
2/26/2020	<0.01				0.0032 (J)				
2/27/2020		0.0032 (J)	0.001 (J)				0.11	0.0039 (J)	
2/28/2020									0.0014 (J)
3/23/2020	<0.01				0.0058 (J)				
3/24/2020		0.0031 (J)	0.001 (J)			0.01	0.12	0.0026 (J)	
3/25/2020				0.022					0.0012 (J)
5/4/2020									
9/2/2020							0.1		
9/25/2020		0.003 (J)		0.024		0.0088 (J)			
9/28/2020	<0.01		0.00078 (J)		0.0084 (J)				
9/29/2020								0.01	0.00069 (J)
2/19/2021			0.0009 (J)						
2/22/2021	<0.01			0.035		0.012		0.0076 (J)	<0.01
2/23/2021		0.0032 (J)							
3/8/2021					0.0083 (J)				
3/9/2021							0.13		
3/25/2021					0.013				
3/26/2021				0.036		0.017			
3/29/2021	<0.01						0.13		
3/30/2021		0.0037 (J)	0.0011 (J)						<0.01
3/31/2021								0.0062 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
11/29/2018	
1/14/2019	
4/2/2019	
4/4/2019	
4/5/2019	
5/2/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	<0.01
9/2/2020	0.015
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	0.013
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.011

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						0.0028 (J)			
6/7/2016					0.00063 (J)				
6/8/2016				0.0088 (J)					
8/10/2016					0.0039 (J)				
8/11/2016				0.01		0.003 (J)			
10/4/2016					0.0052 (J)				
10/5/2016						0.0032 (J)			
10/6/2016				0.0117					
12/2/2016					<0.01				
12/5/2016						0.0033 (J)			
12/6/2016				0.0102					
2/14/2017					0.0044 (J)				
2/15/2017				0.0018 (J)		0.0027 (J)			
4/14/2017					0.0013 (J)				
4/17/2017						0.0025 (J)			
4/18/2017				0.0103					
5/26/2017					0.0024 (J)	0.0029 (J)			
6/2/2017				0.0129					
7/10/2017					0.0013 (J)				
7/11/2017						0.0029 (J)			
7/14/2017				0.0129					
3/26/2018					<0.01				
3/27/2018				0.01		0.0031 (J)			
6/12/2018					0.0026 (J)	0.0043 (J)			
6/13/2018				0.013					
10/16/2018					0.0041 (J)				
10/17/2018						0.0038 (J)			
10/18/2018				0.01 (J)					
2/25/2019					<0.01				
2/28/2019				0.016					
4/1/2019					0.00054 (J)	0.0027 (J)			
4/2/2019				0.011					
9/24/2019				0.01 (J)	0.0016 (J)	0.0041 (J)			
2/19/2020					0.0018 (J)				
2/20/2020						0.002 (J)			
2/21/2020				0.011					
3/18/2020					<0.01				
3/19/2020				0.011		0.0024 (J)			
5/4/2020		0.14	<0.01						
5/11/2020	0.02								
5/20/2020	0.021	0.16							
9/3/2020	0.018	0.11	0.0055 (J)						
9/23/2020					<0.01				
9/24/2020						0.0034 (J)			
9/25/2020				0.0099 (J)					
1/28/2021							<0.01	0.0038 (J)	
2/16/2021					0.0011 (J)				
2/17/2021						0.0033 (J)			
2/18/2021			0.0062 (J)	0.0098 (J)					
2/22/2021	0.0052 (J)								
2/23/2021							<0.01	0.0039 (J)	
3/8/2021		0.2							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/24/2021

3/29/2021

3/30/2021

3/31/2021

4/1/2021

4/19/2021 0.0043 (J)

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
9/27/2019			7.75			7.28			
2/18/2020	7.67					7.27			
2/19/2020		8.01							
2/20/2020							7.46		
2/21/2020			7.54						
2/24/2020								7.28	
3/18/2020	7.65	8.12							
3/19/2020						7.2		7.18	
3/20/2020			7.53						
3/23/2020							7.51		
5/22/2020				7.15					7.2
5/25/2020					7.45				
6/23/2020				7 (D)	7.46 (D)				7.41 (D)
7/28/2020				6.98	7.79				6.98
9/2/2020				6.95					6.97
9/3/2020					7.35				
9/23/2020	7.32	8.08				7.36			
9/24/2020							7.54		
9/25/2020			7.62					7.1	
9/28/2020			7.02						
10/1/2020				6.94	7.41				7.08
11/10/2020				6.89	7.17				7
12/15/2020				7.04	7.37				7.02
1/20/2021				6.83	7.31				7.12
2/16/2021	7.75	8							
2/17/2021				6.89	7.21				
2/18/2021						7.34	7.54		7.14
2/19/2021			7.73					7	
3/23/2021		8							
3/24/2021								7.04	7.04
3/25/2021				6.94	7.22				
3/26/2021	7.63								
3/30/2021							7.41		
3/31/2021						7.17			
4/1/2021			7.75						

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	6.99
8/9/2016	
8/10/2016	
8/11/2016	6.93
8/12/2016	
8/15/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	6.79
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	6.95
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	6.8
4/13/2017	
4/14/2017	
4/18/2017	6.9
5/25/2017	
5/30/2017	6.99
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	6.93
10/9/2017	
10/10/2017	
10/11/2017	6.78
3/26/2018	
3/27/2018	6.81
3/28/2018	
6/12/2018	7.01
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	6.7
2/25/2019	6.74
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	6.75
5/2/2019	
9/23/2019	
9/25/2019	
9/26/2019	6.7

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	6.48
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	6.6
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	6.66
9/25/2020	
9/28/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	6.66
2/19/2021	
3/23/2021	
3/24/2021	6.7
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	7.41								
6/8/2016		6.93	6.58	7.45	7.88	7.1			7.95
6/9/2016							7.3	6.83	
8/11/2016	7.39								
8/12/2016		6.98	6.59	7.18					
8/15/2016									7.66
8/18/2016					7.86	7.1	7.27	6.88	
10/7/2016	7.33	6.91	6.77						
10/10/2016				6.66	7.96	6.77	7.35	6.95	7.26
12/6/2016	7.4	7.06							
12/7/2016			6.63	7.46			7.23	6.91	
12/8/2016					7.82	6.94			7.55
1/23/2017									
2/7/2017									
2/16/2017	7.21	6.62	6.55						
2/17/2017				7.17	7.56	7.02			
2/20/2017							7.17	6.71	7.45
3/27/2017									
4/17/2017									
4/19/2017	7.06	6.75	6.5	7.01	7.42		7.22	6.76	
4/20/2017						6.95			7.58
5/22/2017									
5/30/2017	7.51								
6/1/2017		6.18	6.27	7.18	7.61				7.65
6/5/2017						7.07	7.31	6.87	
7/11/2017									
7/14/2017	7.39	6.68	6.56						
7/17/2017							7.3	6.65	7.73
7/18/2017				7.2	7.77				
7/19/2017						6.97			
8/23/2017									
10/10/2017									
10/11/2017	7.3	7	6.56	7.1			7.05	6.6	7.5
10/12/2017					7.65	6.95			
3/26/2018									
3/27/2018	7.28	6.41	6.52						
3/28/2018				7.19	7.69				7.39
3/29/2018						6.96	7.06	6.7	
6/13/2018				7.24			7.19	6.58	
6/14/2018	7.22	6.61			7.7	6.92			7.35
6/15/2018			6.5						
10/17/2018	7.37								
10/18/2018		6.67							
10/19/2018			6.38		7.57				
10/22/2018				6.93		6.81	7.11	6.61	7.25
2/27/2019	7.38	6.58		7.26					
3/1/2019			6.7			6.9	7.16	6.57	7.5
4/2/2019	7.22	6.48							
4/3/2019			6.58	7.14	7.69	6.77	7	6.57	
4/4/2019									7.38
5/2/2019						6.92			
9/26/2019	7.32	6.99	6.55	7.1					

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/27/2019						6.79	7.02		
9/30/2019					7.7			6.58	7.36
2/24/2020	7.16	6.77	6.54	7.17					
2/25/2020						6.72	7.05		
2/26/2020					7.55			6.6	7.3
3/19/2020	7.14								
3/20/2020		6.35	6.56		7.69	6.75			
3/23/2020				7.14			6.93		
3/24/2020									7.36
3/25/2020								6.58	
9/24/2020	7.2	7.05			7.78	6.82	7.09		
9/25/2020								6.56	
9/28/2020			6.45	7.26					7.35
2/18/2021	7.33	6.48	6.66	7.35					
2/19/2021					7.64	6.9	7.05	6.66	
2/23/2021									7.44
3/8/2021									
3/24/2021	7.27	6.48							
3/25/2021									
3/26/2021			6.61				6.91	6.54	7.36
3/29/2021				7.24	7.75	6.71			

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	7.39
2/7/2017	7.35
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	7.46
4/17/2017	7.19
4/19/2017	
4/20/2017	
5/22/2017	7.4
5/30/2017	
6/1/2017	
6/5/2017	7.69
7/11/2017	7.29
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	7.37
10/10/2017	7.34
10/11/2017	
10/12/2017	
3/26/2018	7.33
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	7.35
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	7.35
2/27/2019	
3/1/2019	7.32
4/2/2019	7.22
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

9/27/2019	
9/30/2019	7.2
2/24/2020	
2/25/2020	
2/26/2020	7.28
3/19/2020	
3/20/2020	
3/23/2020	7.28
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	7.34
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	7.44
3/24/2021	
3/25/2021	7.21
3/26/2021	
3/29/2021	

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
3/4/2019	
4/2/2019	
4/4/2019	
5/2/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	7.46
9/2/2020	7.45
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	7.48
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	7.44

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						7.46			
6/7/2016					7.55				
6/8/2016				7					
8/10/2016				7.02	7.66				
8/11/2016						7.51			
10/5/2016				6.96	7.37	7.37			
12/2/2016					7.67				
12/5/2016				7.16		7.42			
2/14/2017					7.54				
2/15/2017				7.05		7.32			
4/14/2017					7.63				
4/17/2017				7.17		7.23			
5/26/2017					7.76	7.29			
6/1/2017				7.17					
7/10/2017					7.7				
7/11/2017						7.34			
7/13/2017				7.11					
10/10/2017					7.72	7.28			
10/11/2017				7.19					
3/26/2018				7	7.71				
3/27/2018						7.38			
6/12/2018				7	7.71	7.51			
10/16/2018					7.74				
10/17/2018						7.34			
10/18/2018				6.84					
2/25/2019					7.75				
2/27/2019				7.05					
4/1/2019				6.99	7.57	7.03			
9/24/2019				6.92	7.53	7.14			
2/19/2020					7.68				
2/20/2020						7.37			
2/21/2020				7.12					
3/18/2020					7.73				
3/19/2020				7.1		7.35			
5/4/2020		7.27	7.61						
5/11/2020	7.61								
5/20/2020	7.63	7.2							
9/3/2020	7.37	7.21	7.6						
9/23/2020					7.67				
9/24/2020						7.34			
9/25/2020				7.01					
1/28/2021							6.81	7.01	
2/16/2021					7.69				
2/17/2021						7.43			
2/18/2021			7.64	6.88					
2/22/2021	7.5								
2/23/2021							6.71	6.95	
3/8/2021		7.08							
3/24/2021					7.66	7.26			
3/29/2021		7.02							
3/30/2021				7.05			6.64	6.82	
3/31/2021			7.4						

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/5/2016
12/2/2016
12/5/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
5/26/2017
6/1/2017
7/10/2017
7/11/2017
7/13/2017
10/10/2017
10/11/2017
3/26/2018
3/27/2018
6/12/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/27/2019
4/1/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021

Time Series

Constituent: pH (s.u.) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

4/1/2021

4/19/2021 7.54

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.005					<0.005			
6/7/2016							<0.005	<0.005	
8/9/2016	<0.005								
8/10/2016						<0.005			
8/11/2016									
8/12/2016								<0.005	
8/16/2016							<0.005		
8/22/2016		<0.005							
10/3/2016	<0.005								
10/4/2016		<0.005				<0.005			
10/6/2016								<0.005	
10/7/2016							<0.005		
11/29/2016	<0.005								
12/1/2016		<0.005				<0.005			
12/5/2016								<0.005	
12/6/2016							<0.005		
1/10/2017		<0.005							
2/13/2017	<0.005								
2/14/2017		<0.005				<0.005			
2/15/2017								<0.005	
2/16/2017							<0.005		
4/13/2017	<0.005					<0.005			
4/14/2017		<0.005							
4/18/2017							<0.005	<0.005	
5/25/2017	<0.005	<0.005				<0.005			
5/30/2017									
6/2/2017							<0.005	<0.005	
7/7/2017	<0.005					<0.005			
7/10/2017		<0.005							
7/12/2017							<0.005		
7/13/2017								<0.005	
7/14/2017									
3/26/2018	<0.005	<0.005							
3/27/2018							<0.005		
3/28/2018								<0.005	
2/25/2019	<0.005								
2/27/2019		<0.005							
2/28/2019							<0.005	<0.005	
4/1/2019	0.00011 (J)	<0.005							0.0004 (J)
4/2/2019						0.00031 (J)	<0.005		
4/3/2019			0.00013 (J)						
9/23/2019	<0.005	<0.005				<0.005			
9/25/2019							<0.005	<0.005	
9/26/2019									
9/27/2019			<0.005						
2/18/2020	<0.005					<0.005			
2/19/2020		<0.005							
2/20/2020							<0.005		
2/21/2020			<0.005						
2/24/2020								<0.005	
3/18/2020	<0.005	<0.005							
3/19/2020						<0.005		<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			<0.005						
3/23/2020							<0.005		
5/22/2020				0.0013 (J)					0.0014 (J)
5/25/2020					<0.005				
6/23/2020				<0.005	<0.005				<0.005
7/28/2020				<0.005	<0.005				<0.005
9/2/2020				<0.005					<0.005
9/3/2020					<0.005				
9/23/2020	<0.005	<0.005				<0.005			
9/24/2020							<0.005		
9/25/2020			<0.005					<0.005	
10/1/2020				0.0018 (J)	<0.005				<0.005
11/10/2020				<0.005	<0.005				<0.005
12/15/2020				0.0018	<0.005				<0.005
1/20/2021				<0.005	<0.005				<0.005
2/16/2021	<0.005	<0.005							
2/17/2021				<0.005	<0.005				
2/18/2021						<0.005	<0.005		<0.005
2/19/2021			<0.005					<0.005	
3/23/2021		<0.005							
3/24/2021								<0.005	<0.005
3/25/2021				0.002 (J)	<0.005				
3/26/2021	<0.005								
3/30/2021							<0.005		
3/31/2021						0.0032 (J)			
4/1/2021			0.004 (J)						

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	<0.005
8/9/2016	
8/10/2016	
8/11/2016	<0.005
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	<0.005
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	<0.005
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.0012 (J)
4/13/2017	
4/14/2017	
4/18/2017	<0.005
5/25/2017	
5/30/2017	<0.005
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	<0.005
3/26/2018	
3/27/2018	<0.005
3/28/2018	
2/25/2019	<0.005
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.0006 (J)
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	<0.005
9/27/2019	
2/18/2020	
2/19/2020	
2/20/2020	0.0026 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.0019 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.003 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.0017 (J)
2/19/2021	
3/23/2021	
3/24/2021	0.0017 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	0.0004 (J)								
6/8/2016		<0.005	0.00043 (J)	<0.005	<0.005	<0.005			<0.005
6/9/2016							<0.005	0.00099 (J)	
8/11/2016	<0.005								
8/12/2016		<0.005	<0.005	<0.005					
8/15/2016									<0.005
8/18/2016					<0.005	<0.005	<0.005	0.0023 (J)	
10/7/2016	<0.005	<0.005	<0.005						
10/10/2016				<0.005	0.001 (J)	<0.005	<0.005	0.004 (J)	<0.005
12/6/2016	<0.005	<0.005							
12/7/2016			<0.005	0.0037 (J)			0.0176	0.0302	
12/8/2016					<0.005	0.012			<0.005
1/23/2017									
2/7/2017									
2/16/2017	<0.005	<0.005	<0.005						
2/17/2017				<0.005	<0.005	<0.005			
2/20/2017							<0.005	0.0044 (J)	<0.005
3/27/2017									
4/17/2017									
4/19/2017	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	0.0046 (J)	
4/20/2017						<0.005			<0.005
5/22/2017									
5/30/2017	<0.005								
6/1/2017		<0.005	<0.005	<0.005	<0.005				<0.005
6/5/2017						0.0018 (J)	<0.005	0.0033 (J)	
7/11/2017									
7/14/2017	<0.005	<0.005	<0.005						
7/17/2017							<0.005	0.0052 (J)	<0.005
7/18/2017				<0.005	<0.005				
7/19/2017						<0.005			
8/23/2017									
3/26/2018									
3/27/2018	<0.005	<0.005	<0.005						
3/28/2018				<0.005	<0.005				<0.005
3/29/2018						<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005		<0.005					
3/1/2019			<0.005			<0.005	<0.005	<0.005	<0.005
4/2/2019	0.00077 (J)	0.001 (J)							
4/3/2019			0.00058 (J)	<0.005	0.00012 (J)	<0.005	<0.005	0.0038 (J)	
4/4/2019									<0.005
9/26/2019	<0.005	<0.005	<0.005	<0.005					
9/27/2019						<0.005	<0.005		
9/30/2019					<0.005			0.0065 (J)	<0.005
2/24/2020	0.0013 (J)	<0.005	0.0013 (J)	<0.005					
2/25/2020						<0.005	0.002 (J)		
2/26/2020					<0.005			0.0077 (J)	<0.005
3/19/2020	0.0022 (J)								
3/20/2020		<0.005	<0.005		<0.005	<0.005			
3/23/2020				<0.005			<0.005		
3/24/2020									<0.005
3/25/2020								0.0067 (J)	
9/24/2020	<0.005	<0.005			<0.005	0.0026 (J)	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
9/25/2020								0.01	
9/28/2020			<0.005	<0.005					<0.005
2/18/2021	<0.005	<0.005	<0.005	<0.005					
2/19/2021					<0.005	<0.005	<0.005	0.0065	
2/23/2021									<0.005
3/8/2021									
3/24/2021	<0.005	<0.005							
3/25/2021									
3/26/2021			<0.005				<0.005	<0.005	<0.005
3/29/2021				<0.005	<0.005	<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.015
2/7/2017	0.0114
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0092 (J)
4/17/2017	0.0082 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0094 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0118
7/11/2017	0.012
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0097 (J)
3/26/2018	<0.005
3/27/2018	
3/28/2018	
3/29/2018	
2/27/2019	
3/1/2019	0.01 (J)
4/2/2019	0.0092 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.0033 (J)
9/30/2019	
2/24/2020	
2/25/2020	
2/26/2020	<0.005
3/19/2020	
3/20/2020	
3/23/2020	0.0041 (J)
3/24/2020	
3/25/2020	
9/24/2020	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
9/25/2020	0.0035 (J)
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	0.0048 (J)
3/24/2021	
3/25/2021	0.0021 (J)
3/26/2021	
3/29/2021	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
4/2/2019					0.014				
4/4/2019	8E-05 (J)		0.0001 (J)	<0.005					
4/5/2019		0.00015 (J)							
9/24/2019	<0.005		<0.005						
9/26/2019		<0.005		<0.005					
9/27/2019					0.0071 (J)				
2/25/2020				<0.005		<0.005			
2/26/2020	<0.005				0.0029 (J)				
2/27/2020		<0.005	<0.005				<0.005	<0.005	
2/28/2020									0.0018 (J)
3/23/2020	<0.005				0.0033 (J)				
3/24/2020		<0.005	<0.005			<0.005	<0.005	<0.005	
3/25/2020				<0.005					0.0039 (J)
9/2/2020							0.003 (J)		
9/25/2020		<0.005		<0.005		<0.005			
9/28/2020	<0.005		<0.005		0.0076 (J)				
9/29/2020								0.002 (J)	0.005 (J)
2/19/2021			<0.005						
2/22/2021	<0.005			<0.005		<0.005		<0.005	0.0094
2/23/2021		<0.005							
3/8/2021					0.011				
3/9/2021							0.005		
3/25/2021					0.012				
3/26/2021				<0.005		<0.005			
3/29/2021	<0.005						<0.005		
3/30/2021		<0.005	<0.005						0.0098
3/31/2021								0.002 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

4/2/2019	
4/4/2019	
4/5/2019	
9/24/2019	
9/26/2019	
9/27/2019	
2/25/2020	
2/26/2020	
2/27/2020	
2/28/2020	
3/23/2020	
3/24/2020	
3/25/2020	
9/2/2020	0.0016 (J)
9/25/2020	
9/28/2020	
9/29/2020	
2/19/2021	
2/22/2021	<0.005
2/23/2021	
3/8/2021	
3/9/2021	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	0.0016 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	8					26			
6/7/2016							99	190	
8/9/2016	6.5								
8/10/2016						22			
8/11/2016									
8/12/2016								180	
8/16/2016							110		
8/22/2016		4.2							
10/3/2016	5.7								
10/4/2016		6.4				20			
10/6/2016								200	
10/7/2016							110		
11/29/2016	5.2								
12/1/2016		7.8				20			
12/5/2016								130	
12/6/2016							110		
1/10/2017		4.5							
2/13/2017	6.4								
2/14/2017		5.1				20			
2/15/2017								190	
2/16/2017							110		
4/13/2017	4.9					21			
4/14/2017		4.4							
4/18/2017							110	220	
5/25/2017	5.7	4.2				22			
5/30/2017									
6/2/2017							110	250	
7/7/2017	6.3					25			
7/10/2017		3.5							
7/12/2017							110		
7/13/2017								250	
7/14/2017									
10/9/2017	6.1					25			
10/10/2017		3.3						210	
10/11/2017							110		
6/12/2018	8.3	6.8							
6/14/2018							110	275	
10/16/2018	8.9	7.6				32.4			
10/17/2018								336	
10/18/2018							122		
4/1/2019	10.8	5.2						239	
4/2/2019						29.8	105		
4/3/2019			26.2						
5/2/2019	11.2								
9/23/2019	9	6.6				27.5			
9/25/2019							93.7	205	
9/26/2019									
9/27/2019			200 (o)						
2/18/2020						25.7			
2/19/2020		1.6							
2/21/2020			23.5						
3/18/2020	11.7	3.7							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/19/2020						28		255	
3/20/2020			26.1						
3/23/2020							95.6		
5/22/2020				53.5					92.6
5/25/2020					43.3				
6/23/2020				64.5	59.7				88.7
7/28/2020				65.7	15.8				300
9/2/2020				70.2					360
9/3/2020					24.4				
9/23/2020	12.9	5.3				24.6			
9/24/2020							98.6		
9/25/2020			22.6					320	
10/1/2020				70.2	26.6				382
11/10/2020				68.9	24.1				354
12/15/2020				78	28.3				406
1/20/2021				73.4	26.1				299
3/23/2021		4.6							
3/24/2021								301	115
3/25/2021				74.5	22				
3/26/2021	12.8								
3/30/2021							104		
3/31/2021						21.9			
4/1/2021			24.6						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	240
8/9/2016	
8/10/2016	
8/11/2016	250
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	260
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	280
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	380
4/13/2017	
4/14/2017	
4/18/2017	290
5/25/2017	
5/30/2017	260
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	260
10/9/2017	
10/10/2017	
10/11/2017	270
6/12/2018	246
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	276
4/1/2019	
4/2/2019	272
4/3/2019	
5/2/2019	
9/23/2019	
9/25/2019	
9/26/2019	288
9/27/2019	
2/18/2020	
2/19/2020	
2/21/2020	
3/18/2020	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
3/19/2020	311
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	338
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
3/23/2021	
3/24/2021	317
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	120								
6/8/2016		120	110	530	75	660			10
6/9/2016							510	730	
8/11/2016	110								
8/12/2016		81	110	530					
8/15/2016									10
8/18/2016					66	730	480	580	
10/7/2016	150	140	150						
10/10/2016				600	57	650	460	520	10
12/6/2016	130	160							
12/7/2016			97	580			490	370	
12/8/2016					68	660			13
1/23/2017									
2/7/2017									
2/16/2017	120	92	130						
2/17/2017				710	57	740			
2/20/2017							520	610	24
3/27/2017									
4/17/2017									
4/19/2017	110	80	140	610	52		490	600	
4/20/2017						990			26
5/22/2017									
5/30/2017	110								
6/1/2017		73	70	550	55				29
6/5/2017						700	480	700	
7/11/2017									
7/14/2017	110	78	110						
7/17/2017							510	670	25
7/18/2017				590	50				
7/19/2017						720			
8/23/2017									
10/10/2017									
10/11/2017	120	83	93	550			510	510	12
10/12/2017					48	780			
6/13/2018				541			586	689	
6/14/2018	106	74.6			48.1	738			10
6/15/2018			78.3						
10/17/2018	118								
10/18/2018		89.3							
10/19/2018			114		57.2				
10/22/2018				604		846	590	723	8.1
4/2/2019	86.9	70.1							
4/3/2019			90.6	593	61.9	720	603	648	
4/4/2019									11.4
5/2/2019						827			
9/26/2019	219	114	130	498					
9/27/2019						905	721		
9/30/2019					54.5			758	10.7
2/25/2020						472			
2/26/2020									
3/19/2020	90.5								
3/20/2020		75.9	76.9		57.8	610			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/23/2020				494			612		
3/24/2020									18.8
3/25/2020								603	
9/24/2020	156	69.9			57.8	864	676		
9/25/2020								613	
9/28/2020			70.3	578					8.8
3/24/2021	93.7	67.3							
3/25/2021									
3/26/2021			66.8				679	515	21.3
3/29/2021				504	55.2	772			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	410
2/7/2017	410
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	410
4/17/2017	400
4/19/2017	
4/20/2017	
5/22/2017	460
5/30/2017	
6/1/2017	
6/5/2017	440
7/11/2017	420
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	390
10/10/2017	420
10/11/2017	
10/12/2017	
6/13/2018	
6/14/2018	
6/15/2018	174
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	204
4/2/2019	153
4/3/2019	
4/4/2019	
5/2/2019	
9/26/2019	
9/27/2019	51.7
9/30/2019	
2/25/2020	
2/26/2020	42.6
3/19/2020	
3/20/2020	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/23/2020	55.7
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	53.6
9/28/2020	
3/24/2021	
3/25/2021	28.1
3/26/2021	
3/29/2021	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	
4/2/2019	
4/4/2019	
4/5/2019	
5/3/2019	
9/24/2019	
9/26/2019	
9/27/2019	
11/15/2019	
12/13/2019	
12/16/2019	
2/25/2020	
2/26/2020	
2/27/2020	
3/23/2020	
3/24/2020	
3/25/2020	
5/4/2020	234
9/2/2020	224
9/25/2020	
9/28/2020	
9/29/2020	
3/25/2021	
3/26/2021	
3/29/2021	
3/30/2021	
3/31/2021	262

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
4/1/2019
4/2/2019
9/24/2019
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
3/24/2021
3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

26.7

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	<0.001					<0.001			
6/7/2016							<0.001	<0.001	
8/9/2016	0.0001 (J)								
8/10/2016						7E-05 (J)			
8/11/2016									
8/12/2016								9E-05 (J)	
8/16/2016							<0.001		
8/22/2016		<0.001							
10/3/2016	<0.001								
10/4/2016		<0.001				<0.001			
10/6/2016								<0.001	
10/7/2016							<0.001		
11/29/2016	<0.001								
12/1/2016		<0.001				<0.001			
12/5/2016								<0.001	
12/6/2016							<0.001		
1/10/2017		<0.001							
2/13/2017	<0.001								
2/14/2017		<0.001				<0.001			
2/15/2017								<0.001	
2/16/2017							<0.001		
4/13/2017	9E-05 (J)					0.0001 (J)			
4/14/2017		<0.001							
4/18/2017							<0.001	9E-05 (J)	
5/25/2017	0.0001 (J)	<0.001				6E-05 (J)			
5/30/2017									
6/2/2017							<0.001	<0.001	
7/7/2017	9E-05 (J)					7E-05 (J)			
7/10/2017		<0.001							
7/12/2017							<0.001		
7/13/2017								8E-05 (J)	
7/14/2017									
3/26/2018	<0.001	<0.001							
3/27/2018							<0.001		
3/28/2018								<0.001	
6/12/2018	<0.001	<0.001							
6/14/2018							<0.001	<0.001	
10/16/2018	<0.001	<0.001				<0.001			
10/17/2018								<0.001	
10/18/2018							<0.001		
2/25/2019	<0.001								
2/27/2019		<0.001							
2/28/2019							<0.001	<0.001	
4/1/2019	0.00011 (J)	<0.001						<0.001	
4/2/2019						6.2E-05 (J)	<0.001		
4/3/2019			<0.001						
9/23/2019	0.00011 (J)	<0.001				6E-05 (J)			
9/25/2019							<0.001	6E-05 (J)	
9/26/2019									
9/27/2019			<0.001						
2/18/2020	0.00011 (J)					5.3E-05 (J)			
2/19/2020		<0.001							

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
2/20/2020							<0.001		
2/21/2020			<0.001						
2/24/2020								<0.001	
3/18/2020	0.00012 (J)	<0.001							
3/19/2020						6.1E-05 (J)		6.2E-05 (J)	
3/20/2020			<0.001						
3/23/2020							<0.001		
5/22/2020				8.8E-05 (J)					0.00016 (J)
5/25/2020					<0.001				
6/23/2020				<0.001	<0.001				0.00011 (J)
7/28/2020				<0.001	<0.001				0.00026 (J)
9/2/2020				<0.001					0.00035 (J)
9/3/2020					<0.001				
9/23/2020	<0.001	<0.001				<0.001			
9/24/2020							<0.001		
9/25/2020			<0.001					<0.001	
10/1/2020				<0.001	<0.001				0.0005 (J)
11/10/2020				<0.001	<0.001				0.00044 (J)
12/15/2020				<0.001	<0.001				0.00044
1/20/2021				<0.001	<0.001				0.00031 (J)
2/16/2021	0.0002 (J)	<0.001							
2/17/2021				<0.001	<0.001				
2/18/2021						<0.001	<0.001		0.00077 (J)
2/19/2021			<0.001					<0.001	
3/23/2021		<0.001							
3/24/2021								<0.001	0.00023 (J)
3/25/2021				<0.001	<0.001				
3/26/2021	0.00025 (J)								
3/30/2021							<0.001		
3/31/2021						0.00017 (J)			
4/1/2021			<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
6/6/2016	
6/7/2016	0.0002 (J)
8/9/2016	
8/10/2016	
8/11/2016	0.0002 (J)
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	0.0002 (J)
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	0.0003 (J)
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	0.0003 (J)
4/13/2017	
4/14/2017	
4/18/2017	0.0002 (J)
5/25/2017	
5/30/2017	0.0002 (J)
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	0.0002 (J)
3/26/2018	
3/27/2018	0.00019 (J)
3/28/2018	
6/12/2018	0.0002 (J)
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	0.0002 (J)
2/25/2019	0.00023 (J)
2/27/2019	
2/28/2019	
4/1/2019	
4/2/2019	0.0002 (J)
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	0.00023 (J)
9/27/2019	
2/18/2020	
2/19/2020	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-16
2/20/2020	0.00028 (J)
2/21/2020	
2/24/2020	
3/18/2020	
3/19/2020	0.00022 (J)
3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	0.00024 (J)
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
2/16/2021	
2/17/2021	
2/18/2021	0.00023 (J)
2/19/2021	
3/23/2021	
3/24/2021	0.00019 (J)
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	8.5E-05 (J)								
6/8/2016		<0.001	8.5E-05 (J)	<0.001	<0.001	0.00035 (J)			<0.001
6/9/2016							0.0001 (J)	0.00022 (J)	
8/11/2016	8E-05 (J)								
8/12/2016		6E-05 (J)	8E-05 (J)	<0.001					
8/15/2016									<0.001
8/18/2016					<0.001	0.0005 (J)	<0.001	<0.001	
10/7/2016	<0.001	<0.001	<0.001						
10/10/2016				<0.001	<0.001	0.0006 (J)	<0.001	0.0003 (J)	<0.001
12/6/2016	<0.001	<0.001							
12/7/2016			<0.001	<0.001			<0.001	<0.001	
12/8/2016					<0.001	0.0005 (J)			<0.001
1/23/2017									
2/7/2017									
2/16/2017	<0.001	<0.001	<0.001						
2/17/2017				<0.001	<0.001	0.0006 (J)			
2/20/2017							<0.001	0.0003 (J)	<0.001
3/27/2017									
4/17/2017									
4/19/2017	8E-05 (J)	<0.001	6E-05 (J)	<0.001	<0.001		<0.001	0.0004 (J)	
4/20/2017						0.0006 (J)			<0.001
5/22/2017									
5/30/2017	9E-05 (J)								
6/1/2017		<0.001	8E-05 (J)	<0.001	<0.001				<0.001
6/5/2017						0.0006 (J)	<0.001	0.0004 (J)	
7/11/2017									
7/14/2017	9E-05 (J)	<0.001	8E-05 (J)						
7/17/2017							<0.001	0.0004 (J)	<0.001
7/18/2017				<0.001	<0.001				
7/19/2017						0.0007 (J)			
8/23/2017									
3/26/2018									
3/27/2018	<0.001	<0.001	<0.001						
3/28/2018				<0.001	<0.001				<0.001
3/29/2018						0.00063 (J)	<0.001	0.00048 (J)	
6/13/2018				<0.001			<0.001	0.00053 (J)	
6/14/2018	<0.001	<0.001			<0.001	0.00069 (J)			<0.001
6/15/2018			<0.001						
10/17/2018	<0.001								
10/18/2018		<0.001							
10/19/2018			<0.001		<0.001				
10/22/2018				<0.001		0.00071 (J)	<0.001	0.00047 (J)	<0.001
2/27/2019	<0.001	<0.001		<0.001					
3/1/2019			<0.001			0.00074 (J)	<0.001	0.0007 (J)	<0.001
4/2/2019	7.5E-05 (J)	<0.001							
4/3/2019			<0.001	<0.001	<0.001	0.0007 (J)	<0.001	0.00064 (J)	
4/4/2019									<0.001
9/26/2019	0.00026 (J)	7.1E-05 (J)	8E-05 (J)	<0.001					
9/27/2019						0.00088 (J)	0.00018 (J)		
9/30/2019					<0.001			0.00069 (J)	<0.001
2/24/2020	5.9E-05 (J)	6.8E-05 (J)	<0.001	<0.001					
2/25/2020						0.00062 (J)	0.00015 (J)		

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
2/26/2020					<0.001			0.00073 (J)	<0.001
3/19/2020	6.1E-05 (J)								
3/20/2020		<0.001	<0.001		<0.001	0.00063 (J)			
3/23/2020				0.0002 (J)			0.00016 (J)		
3/24/2020									<0.001
3/25/2020								0.00066 (J)	
9/24/2020	0.00018 (J)	<0.001			<0.001	0.001	0.00038 (J)		
9/25/2020								0.00057 (J)	
9/28/2020			<0.001	<0.001					<0.001
2/18/2021	<0.001	<0.001	<0.001	<0.001					
2/19/2021					<0.001	0.00089 (J)	0.00039 (J)	0.0005 (J)	
2/23/2021									<0.001
3/8/2021									
3/24/2021	<0.001	<0.001							
3/25/2021									
3/26/2021			<0.001				0.00069 (J)	0.00057 (J)	<0.001
3/29/2021				<0.001	<0.001	0.0009 (J)			

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	0.0008 (J)
2/7/2017	0.0008 (J)
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	0.0006 (J)
4/17/2017	0.0007 (J)
4/19/2017	
4/20/2017	
5/22/2017	0.0008 (J)
5/30/2017	
6/1/2017	
6/5/2017	0.0007 (J)
7/11/2017	0.0007 (J)
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	0.0007 (J)
3/26/2018	0.00058 (J)
3/27/2018	
3/28/2018	
3/29/2018	
6/13/2018	
6/14/2018	
6/15/2018	0.00056 (J)
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	0.00034 (J)
2/27/2019	
3/1/2019	0.00024 (J)
4/2/2019	0.00024 (J)
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	0.00014 (J)
9/30/2019	
2/24/2020	
2/25/2020	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-30
2/26/2020	8.5E-05 (J)
3/19/2020	
3/20/2020	
3/23/2020	9.1E-05 (J)
3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	<0.001
9/28/2020	
2/18/2021	
2/19/2021	
2/23/2021	
3/8/2021	<0.001
3/24/2021	
3/25/2021	<0.001
3/26/2021	
3/29/2021	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-31	BGWC-32	BGWC-34D	BGWC-35D	BGWC-36D	BGWC-37D	BGWC-38D	BGWC-39	BGWC-40
10/17/2018					0.00026 (J)				
10/18/2018	<0.001								
10/19/2018			<0.001						
10/22/2018		0.00014 (J)		<0.001					
4/2/2019					0.00022 (J)				
4/4/2019	<0.001		<0.001	<0.001					
4/5/2019		0.00046 (J)							
9/24/2019	<0.001		<0.001						
9/26/2019		0.00017 (J)		<0.001					
9/27/2019					0.00037 (J)				
2/25/2020				<0.001		<0.001			
2/26/2020	<0.001				0.00013 (J)				
2/27/2020		0.00013 (J)	8.9E-05 (J)				0.0027	0.00017 (J)	
2/28/2020									<0.001
3/23/2020	<0.001				0.00011 (J)				
3/24/2020		8.4E-05 (J)	<0.001			<0.001	5.6E-05 (J)	0.00013 (J)	
3/25/2020				6.8E-05 (J)					0.00014 (J)
9/2/2020							0.00042 (J)		
9/25/2020		0.00014 (J)		<0.001		<0.001			
9/28/2020	<0.001		<0.001		0.00019 (J)				
9/29/2020								0.00025 (J)	<0.001
2/19/2021			<0.001						
2/22/2021	<0.001			0.00016 (J)		<0.001		0.00021 (J)	<0.001
2/23/2021		0.00015 (J)							
3/8/2021					0.0002 (J)				
3/9/2021							<0.001		
3/25/2021					0.00019 (J)				
3/26/2021				<0.001		<0.001			
3/29/2021	<0.001						0.00018 (J)		
3/30/2021		0.00016 (J)	<0.001						<0.001
3/31/2021								0.00017 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018
10/18/2018
10/19/2018
10/22/2018
4/2/2019
4/4/2019
4/5/2019
9/24/2019
9/26/2019
9/27/2019
2/25/2020
2/26/2020
2/27/2020
2/28/2020
3/23/2020
3/24/2020
3/25/2020
9/2/2020
9/25/2020
9/28/2020
9/29/2020
2/19/2021
2/22/2021
2/23/2021
3/8/2021
3/9/2021
3/25/2021
3/26/2021
3/29/2021
3/30/2021
3/31/2021

<0.001

<0.001

<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-42D	BGWC-43D	BGWC-44D	BGWC-7	BGWC-8	BGWC-9	BGWC-51	BGWC-52	BGWC-49D
6/6/2016						<0.001			
6/7/2016					<0.001				
6/8/2016				<0.001					
8/10/2016					<0.001				
8/11/2016				<0.001		<0.001			
10/4/2016					<0.001				
10/5/2016						<0.001			
10/6/2016				<0.001					
12/2/2016					<0.001				
12/5/2016						<0.001			
12/6/2016				<0.001					
2/14/2017					<0.001				
2/15/2017				<0.001		<0.001			
4/14/2017					<0.001				
4/17/2017						<0.001			
4/18/2017				<0.001					
5/26/2017					<0.001	<0.001			
6/2/2017				<0.001					
7/10/2017					<0.001				
7/11/2017						<0.001			
7/14/2017				<0.001					
3/26/2018					<0.001				
3/27/2018				<0.001		<0.001			
6/12/2018					<0.001	<0.001			
6/13/2018				<0.001					
10/16/2018					<0.001				
10/17/2018						<0.001			
10/18/2018				<0.001					
2/25/2019					<0.001				
2/28/2019				<0.001					
4/1/2019					<0.001	6.5E-05 (J)			
4/2/2019				7E-05 (J)					
9/24/2019				8.7E-05 (J)	<0.001	<0.001			
2/19/2020					<0.001				
2/20/2020						0.00022 (J)			
2/21/2020				9.6E-05 (J)					
3/18/2020					<0.001				
3/19/2020				0.00011 (J)		0.00018 (J)			
9/3/2020	<0.001	0.0024	<0.001						
9/23/2020					<0.001				
9/24/2020						<0.001			
9/25/2020				<0.001					
1/28/2021							0.0002 (J)	0.00045 (J)	
2/16/2021					<0.001				
2/17/2021						<0.001			
2/18/2021			<0.001	<0.001					
2/22/2021	<0.001								
2/23/2021							<0.001	0.00023 (J)	
3/8/2021		0.0015							
3/24/2021					<0.001	<0.001			
3/29/2021		0.0016							
3/30/2021				0.00015 (J)			0.0004 (J)	0.00024 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
3/26/2018
3/27/2018
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
2/25/2019
2/28/2019
4/1/2019
4/2/2019
9/24/2019
2/19/2020
2/20/2020
2/21/2020
3/18/2020
3/19/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
2/16/2021
2/17/2021
2/18/2021
2/22/2021
2/23/2021
3/8/2021
3/24/2021
3/29/2021
3/30/2021

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-50D

3/31/2021

4/1/2021

4/19/2021

<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
6/6/2016	170					220			
6/7/2016							300	510	
8/9/2016	183								
8/10/2016						299			
8/11/2016									
8/12/2016								476	
8/16/2016							286		
8/22/2016		121							
10/3/2016	201								
10/4/2016		95				245			
10/6/2016								524	
10/7/2016							513		
11/29/2016	109								
12/1/2016		121				269			
12/5/2016								489	
12/6/2016							421		
1/10/2017		115							
2/13/2017	214								
2/14/2017		345 (o)				405			
2/15/2017								562	
2/16/2017							433		
4/13/2017	211					349			
4/14/2017		119							
4/18/2017							349	955	
5/25/2017	173	109				283			
5/30/2017									
6/2/2017							313	602	
7/7/2017	165					265			
7/10/2017		140							
7/12/2017							255		
7/13/2017								617	
7/14/2017									
10/9/2017	150					253			
10/10/2017		93						534	
10/11/2017							343		
6/12/2018	187	139							
6/14/2018							362	684	
10/16/2018	192	138				311			
10/17/2018								739	
10/18/2018							355		
4/1/2019	226	114						191	
4/2/2019						295	355		
4/3/2019			235						
9/23/2019	186	122				296			
9/25/2019							388	690	
9/26/2019									
9/27/2019			275						
2/18/2020						318			
2/19/2020		113							
2/21/2020			229						
3/18/2020	191	108							
3/19/2020						300		662	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWA-29 (bg)	BGWA-33 (bg)	BGWA-47D (bg)	BGWA-48D (bg)	BGWA-6	BGWC-10	BGWC-12	BGWC-14A
3/20/2020			229						
3/23/2020							355		
5/22/2020				357					454
5/25/2020					249				
6/23/2020				383	280				423
7/28/2020				410	264				768
9/2/2020				389					814
9/3/2020					303				
9/23/2020	237	114				296			
9/24/2020							356		
9/25/2020			233					740	
10/1/2020				384	301				824
11/10/2020				405	305				800
12/15/2020				385	289				876
1/20/2021				377	285				786
3/23/2021		108							
3/24/2021								752	445
3/25/2021				415	331				
3/26/2021	204								
3/30/2021							321		
3/31/2021						299			
4/1/2021			183						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

6/6/2016	
6/7/2016	580
8/9/2016	
8/10/2016	
8/11/2016	548
8/12/2016	
8/16/2016	
8/22/2016	
10/3/2016	
10/4/2016	
10/6/2016	
10/7/2016	617
11/29/2016	
12/1/2016	
12/5/2016	
12/6/2016	730
1/10/2017	
2/13/2017	
2/14/2017	
2/15/2017	
2/16/2017	685
4/13/2017	
4/14/2017	
4/18/2017	621
5/25/2017	
5/30/2017	601
6/2/2017	
7/7/2017	
7/10/2017	
7/12/2017	
7/13/2017	
7/14/2017	569
10/9/2017	
10/10/2017	
10/11/2017	588
6/12/2018	593
6/14/2018	
10/16/2018	
10/17/2018	
10/18/2018	578
4/1/2019	
4/2/2019	604
4/3/2019	
9/23/2019	
9/25/2019	
9/26/2019	688
9/27/2019	
2/18/2020	
2/19/2020	
2/21/2020	
3/18/2020	
3/19/2020	631

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-16

3/20/2020	
3/23/2020	
5/22/2020	
5/25/2020	
6/23/2020	
7/28/2020	
9/2/2020	
9/3/2020	
9/23/2020	
9/24/2020	732
9/25/2020	
10/1/2020	
11/10/2020	
12/15/2020	
1/20/2021	
3/23/2021	
3/24/2021	610
3/25/2021	
3/26/2021	
3/30/2021	
3/31/2021	
4/1/2021	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
6/7/2016	360								
6/8/2016		390	340	1000	260	2000			170
6/9/2016							1900	5200	
8/11/2016	340								
8/12/2016		310	326	1100					
8/15/2016									161
8/18/2016					239	1960	1600	4200	
10/7/2016	533	823	621						
10/10/2016				1110	239	2130	1640	3850	196
12/6/2016	413	560							
12/7/2016			269	1100			1770	2720	
12/8/2016					255	2200			209
1/23/2017									
2/7/2017									
2/16/2017	434	364	488						
2/17/2017				1160	236	2200			
2/20/2017							1720	4200	251
3/27/2017									
4/17/2017									
4/19/2017	415	337	396	1180	247		1800	4680	
4/20/2017						2330			324
5/22/2017									
5/30/2017	391								
6/1/2017		215	266	1130	185				177
6/5/2017						2530	2050	5660	
7/11/2017									
7/14/2017	391	281	325						
7/17/2017							1810	5080	238
7/18/2017				1160	219				
7/19/2017						2650			
8/23/2017									
10/10/2017									
10/11/2017	403	334	287	1050			1780	4920	199
10/12/2017					245	2500			
6/13/2018				1060			2020	4180	
6/14/2018	395	290			231	2380			225
6/15/2018			280						
10/17/2018	446								
10/18/2018		325							
10/19/2018			321		236				
10/22/2018				1150		2490	1880	4300	218
4/2/2019	321	258							
4/3/2019			259	1090	244	2180	1990	13 (J)	
4/4/2019									196
9/26/2019	550	470	428	1210					
9/27/2019						3260	2540		
9/30/2019					256			4430	220
2/25/2020						1930			
2/26/2020									
3/19/2020	324								
3/20/2020		255	243		253	2200			
3/23/2020				1220			2800		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-17	BGWC-18	BGWC-19	BGWC-20	BGWC-21	BGWC-22	BGWC-23	BGWC-24	BGWC-25
3/24/2020									213
3/25/2020								4140	
9/24/2020	481	310			243	3490	3160		
9/25/2020								5020	
9/28/2020			243	1060					223
3/24/2021	374	240							
3/25/2021									
3/26/2021			205				2690	3070	215
3/29/2021				1100	198	2430			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM

Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

6/7/2016	
6/8/2016	
6/9/2016	
8/11/2016	
8/12/2016	
8/15/2016	
8/18/2016	
10/7/2016	
10/10/2016	
12/6/2016	
12/7/2016	
12/8/2016	
1/23/2017	2060
2/7/2017	1860
2/16/2017	
2/17/2017	
2/20/2017	
3/27/2017	2440
4/17/2017	2180
4/19/2017	
4/20/2017	
5/22/2017	2470
5/30/2017	
6/1/2017	
6/5/2017	2780
7/11/2017	2580
7/14/2017	
7/17/2017	
7/18/2017	
7/19/2017	
8/23/2017	2400
10/10/2017	1990
10/11/2017	
10/12/2017	
6/13/2018	
6/14/2018	
6/15/2018	1190
10/17/2018	
10/18/2018	
10/19/2018	
10/22/2018	1070
4/2/2019	773
4/3/2019	
4/4/2019	
9/26/2019	
9/27/2019	629
9/30/2019	
2/25/2020	
2/26/2020	523
3/19/2020	
3/20/2020	
3/23/2020	613

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-30

3/24/2020	
3/25/2020	
9/24/2020	
9/25/2020	482
9/28/2020	
3/24/2021	
3/25/2021	358
3/26/2021	
3/29/2021	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWC-41D

10/17/2018
10/18/2018
10/19/2018
10/22/2018
4/2/2019
4/4/2019
4/5/2019
9/24/2019
9/26/2019
9/27/2019
11/15/2019
12/13/2019
12/16/2019
2/25/2020
2/26/2020
2/27/2020
3/23/2020
3/24/2020
3/25/2020
5/4/2020
9/2/2020
9/25/2020
9/28/2020
9/29/2020
3/25/2021
3/26/2021
3/29/2021
3/30/2021
3/31/2021

904

829

1010

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 1:33 PM
Plant Bowen Client: Southern Company Data: Bowen AP-1

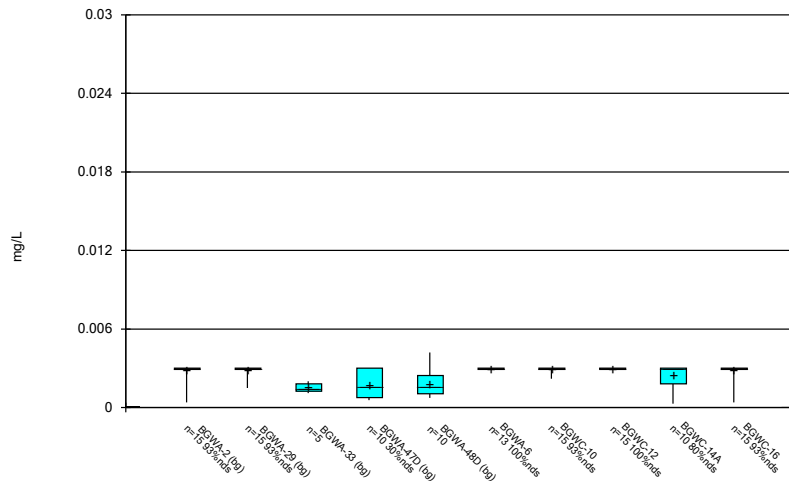
BGWC-50D

6/6/2016
6/7/2016
6/8/2016
8/10/2016
8/11/2016
10/4/2016
10/5/2016
10/6/2016
12/2/2016
12/5/2016
12/6/2016
2/14/2017
2/15/2017
4/14/2017
4/17/2017
4/18/2017
5/26/2017
6/2/2017
7/10/2017
7/11/2017
7/14/2017
10/10/2017
10/11/2017
6/12/2018
6/13/2018
10/16/2018
10/17/2018
10/18/2018
4/1/2019
4/2/2019
9/24/2019
3/18/2020
3/19/2020
5/4/2020
5/11/2020
5/20/2020
9/3/2020
9/23/2020
9/24/2020
9/25/2020
1/28/2021
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3/29/2021
3/30/2021
3/31/2021
4/1/2021
4/19/2021

270

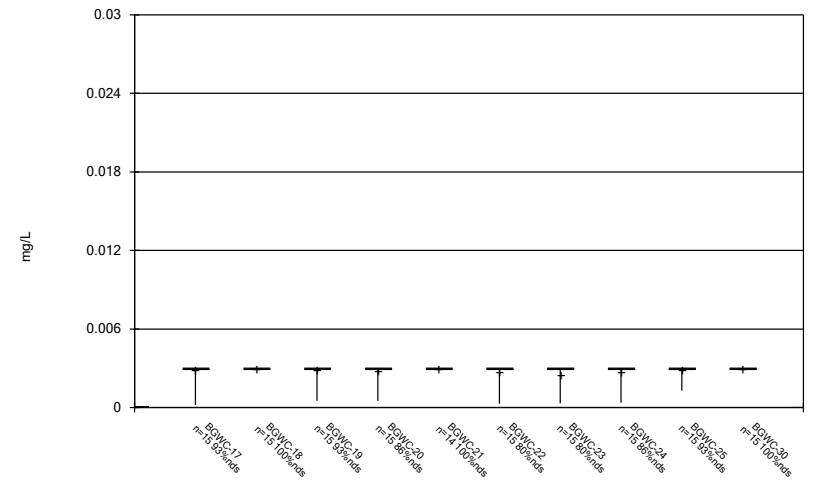
FIGURE B.

Box & Whiskers Plot



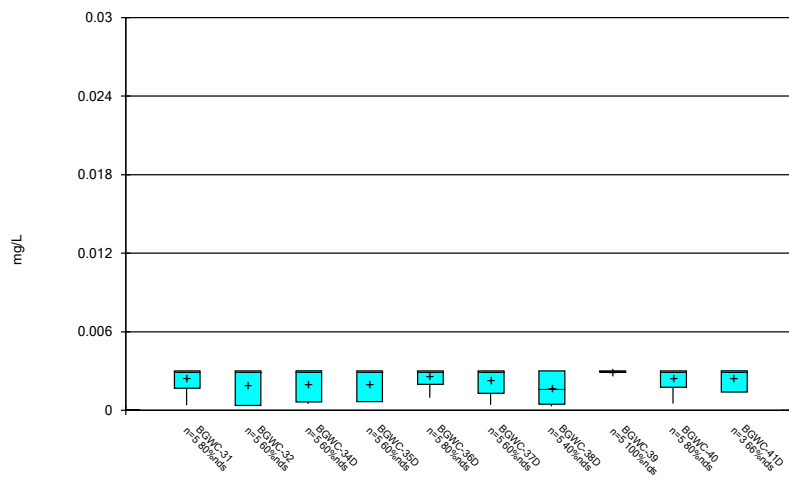
Constituent: Antimony Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



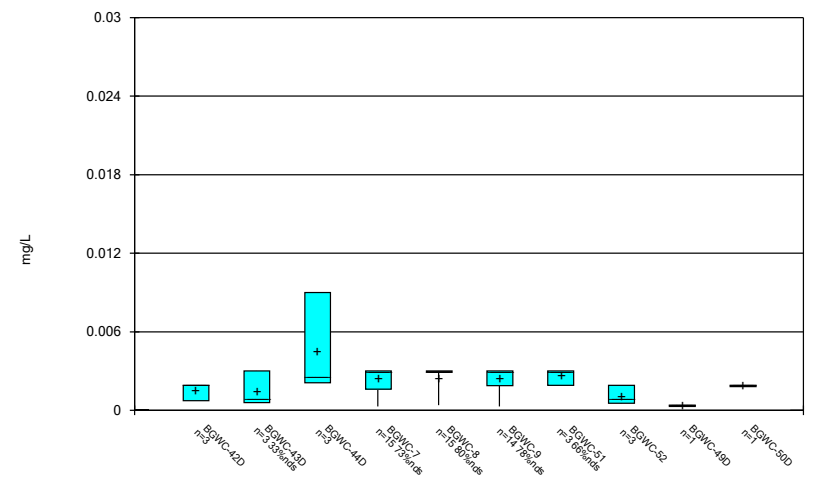
Constituent: Antimony Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



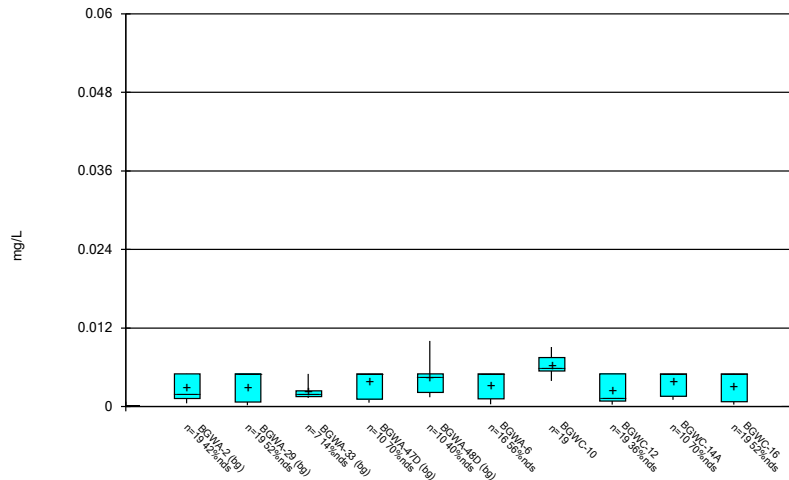
Constituent: Antimony Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



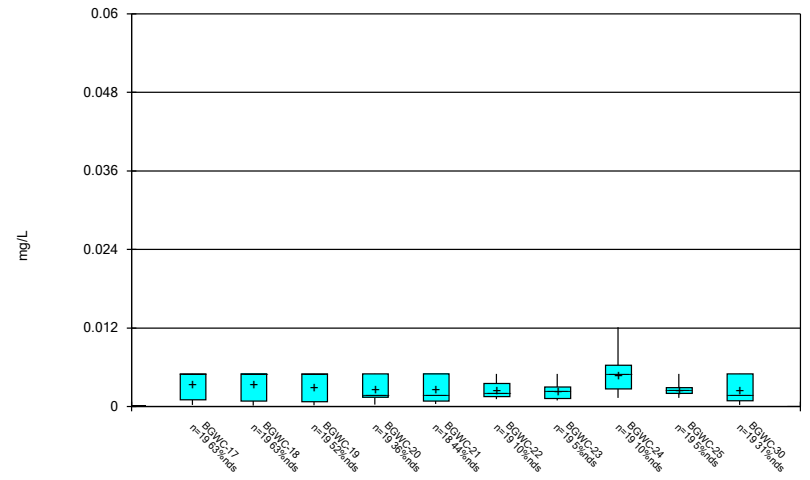
Constituent: Antimony Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



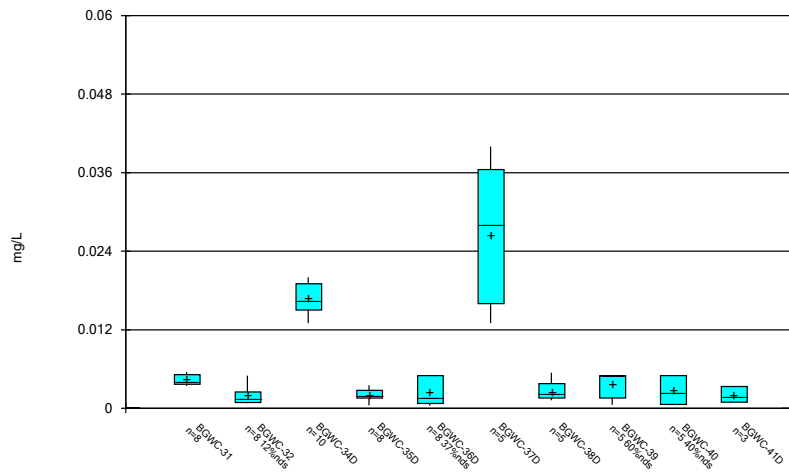
Constituent: Arsenic Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



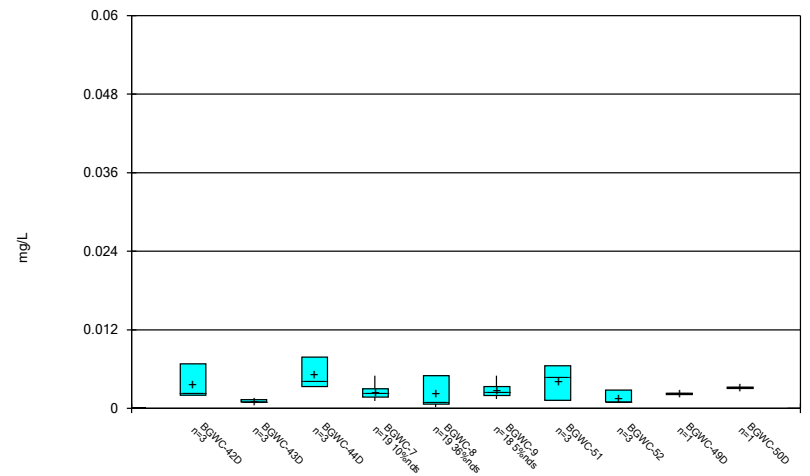
Constituent: Arsenic Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



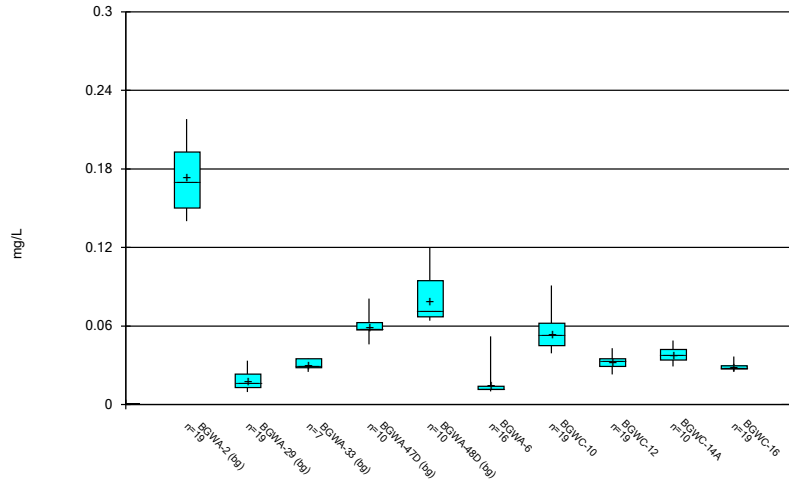
Constituent: Arsenic Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



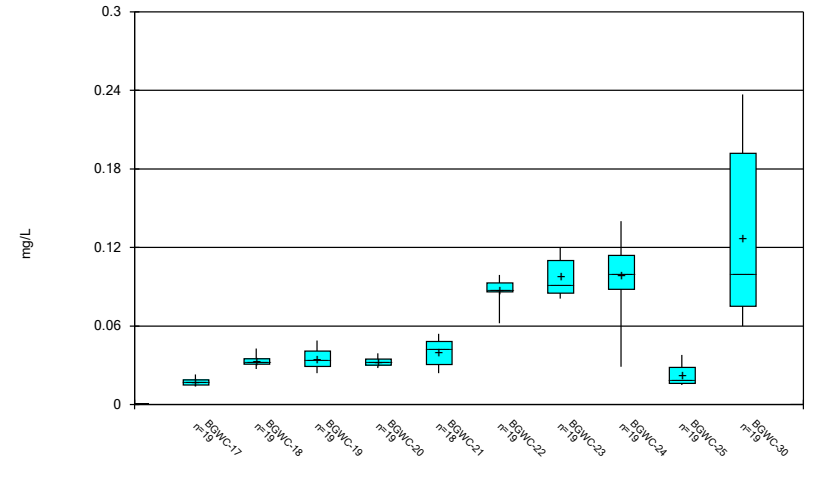
Constituent: Arsenic Analysis Run 5/17/2021 1:38 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



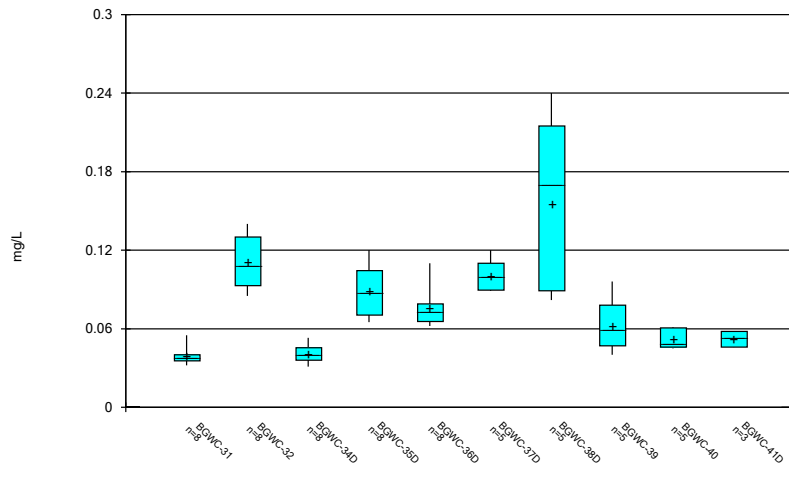
Constituent: Barium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



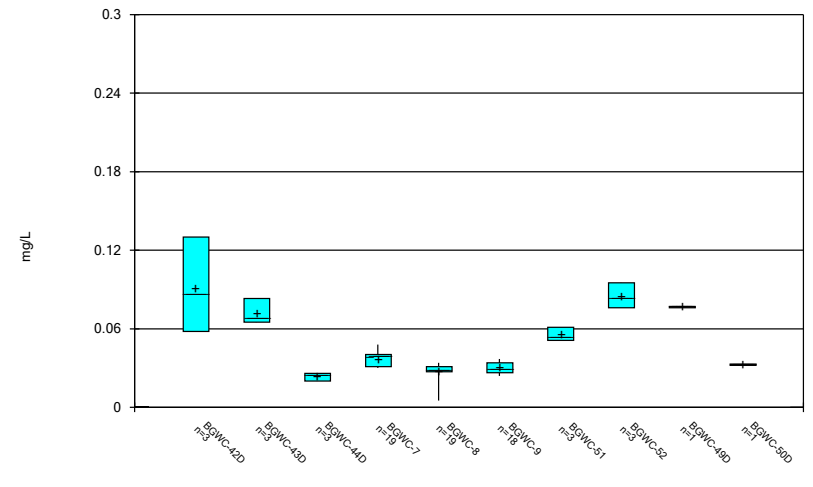
Constituent: Barium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



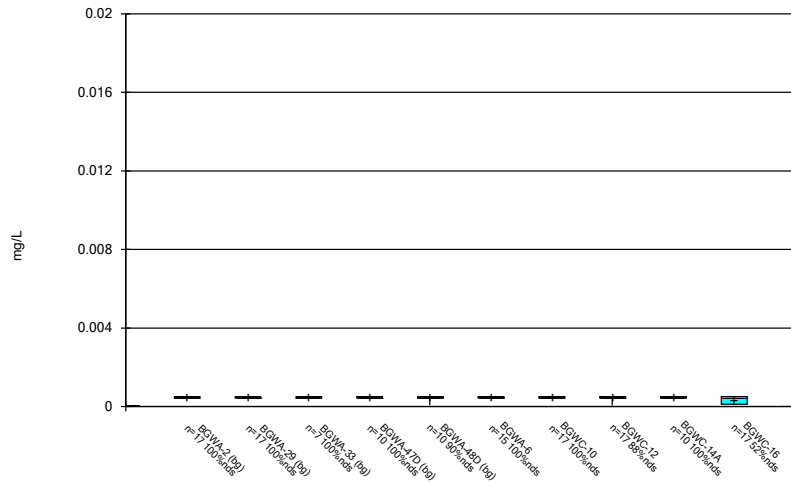
Constituent: Barium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



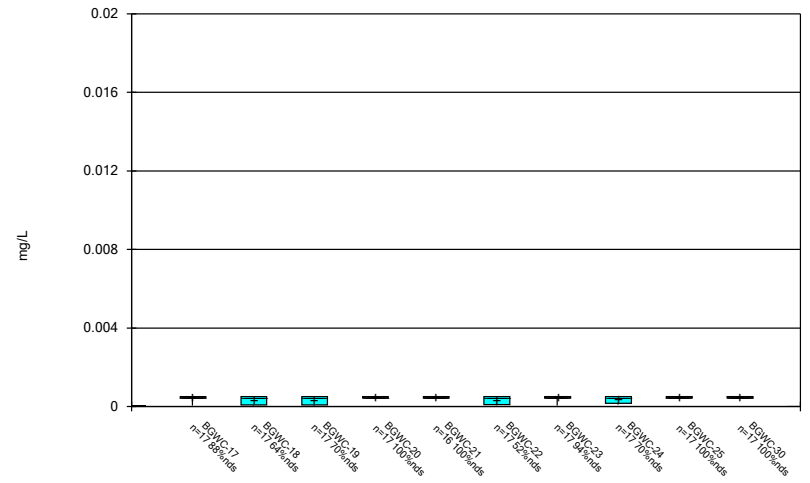
Constituent: Barium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



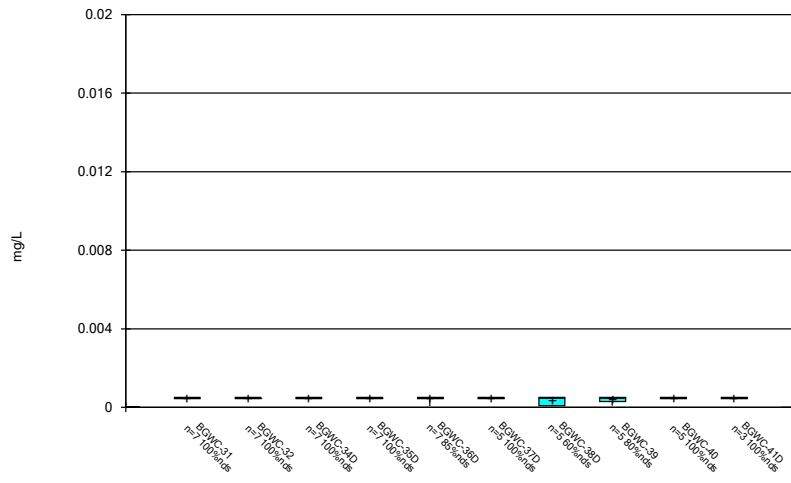
Constituent: Beryllium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



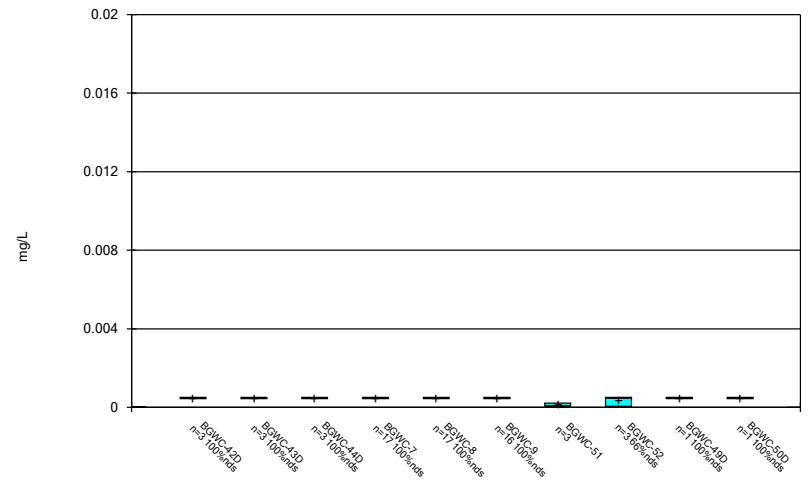
Constituent: Beryllium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



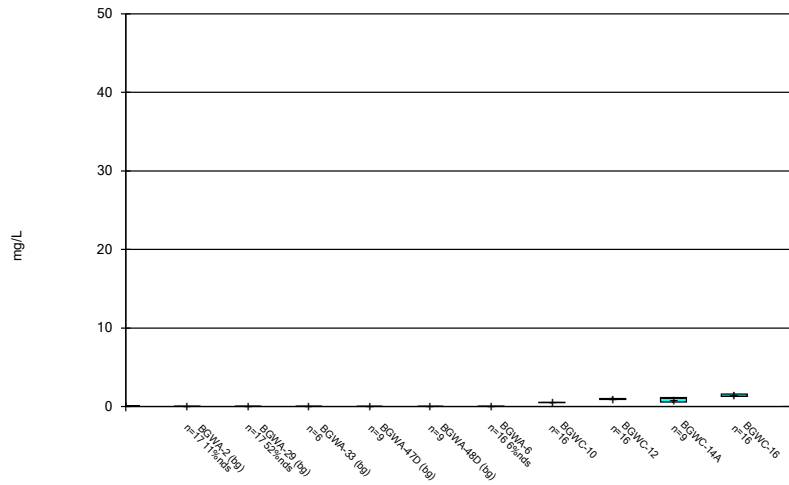
Constituent: Beryllium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



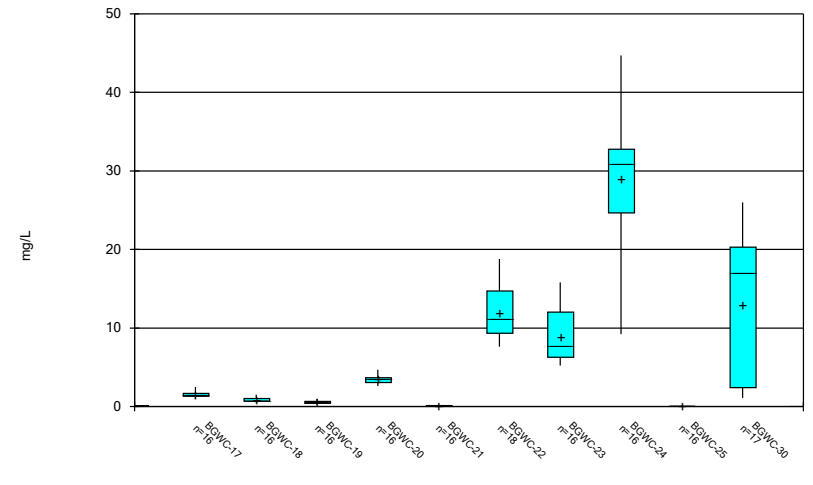
Constituent: Beryllium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



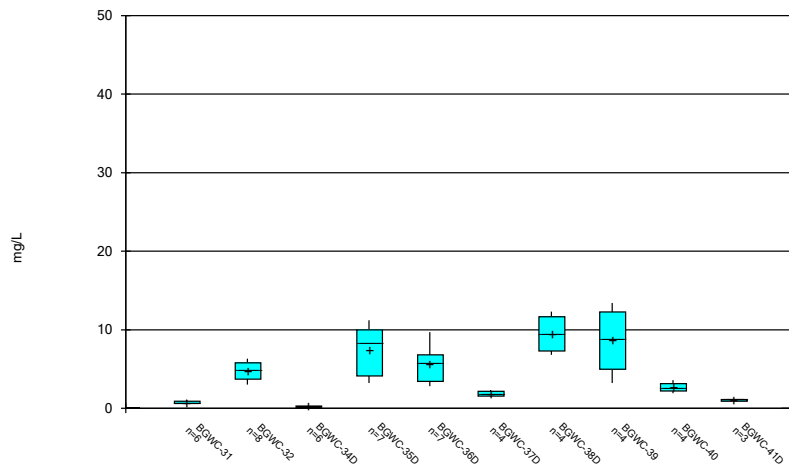
Constituent: Boron Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



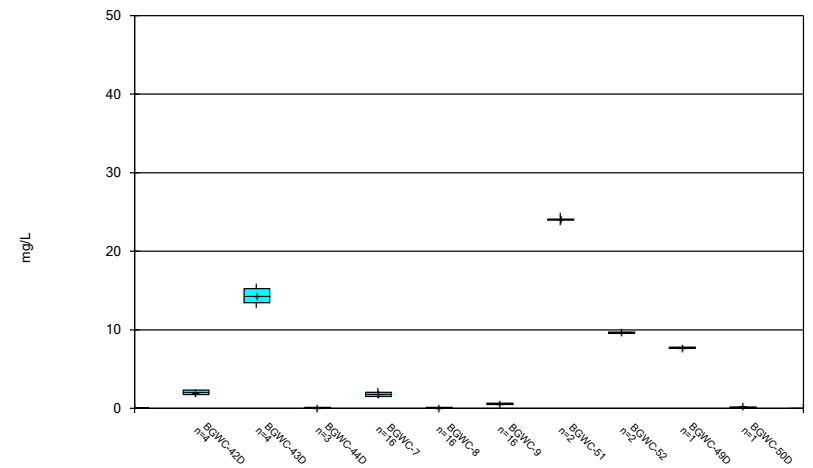
Constituent: Boron Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



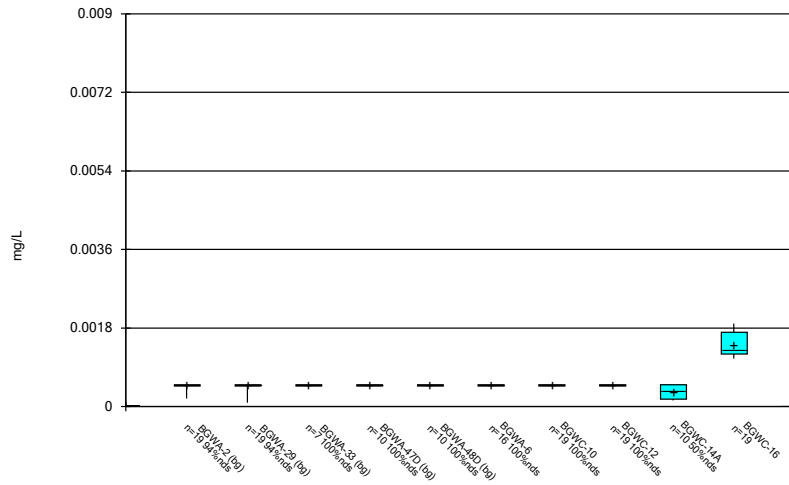
Constituent: Boron Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



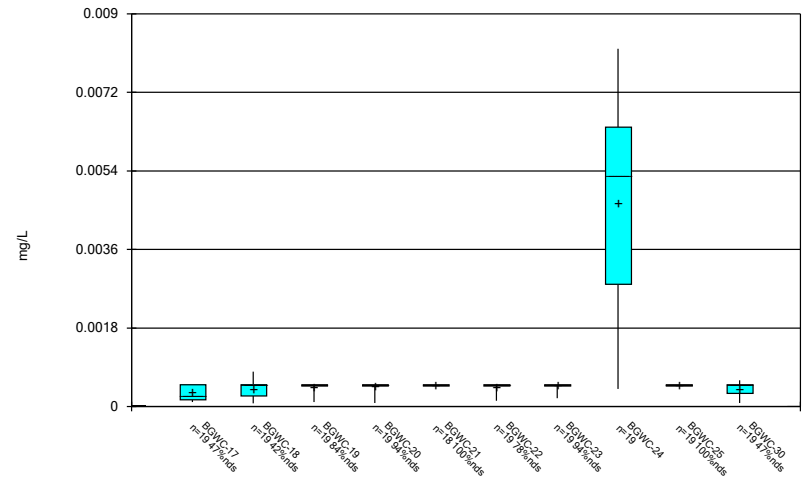
Constituent: Boron Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



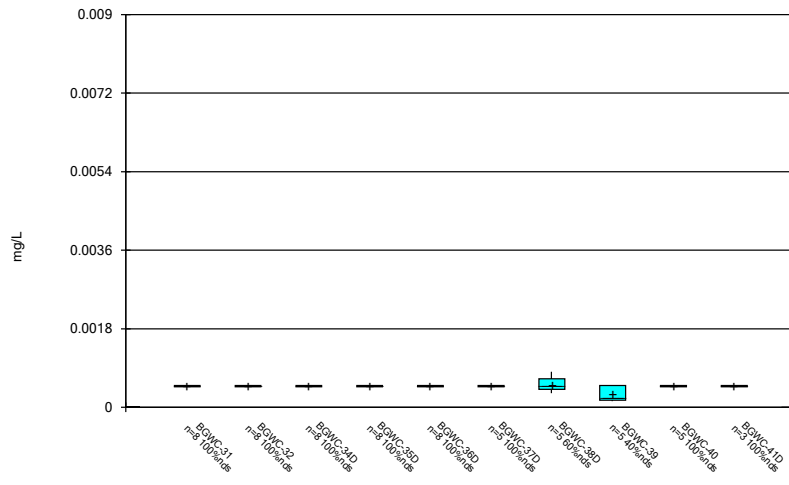
Constituent: Cadmium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



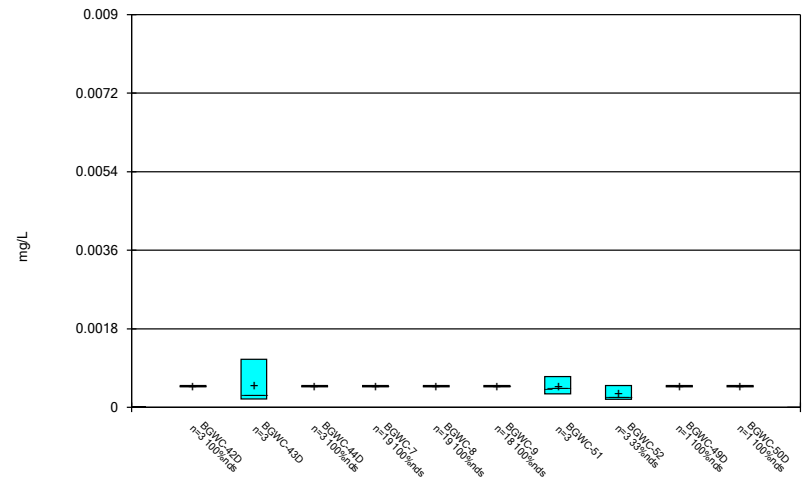
Constituent: Cadmium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



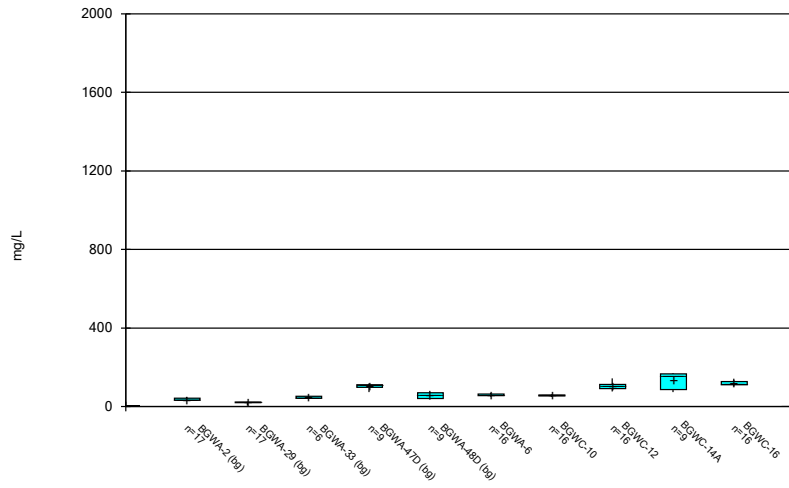
Constituent: Cadmium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



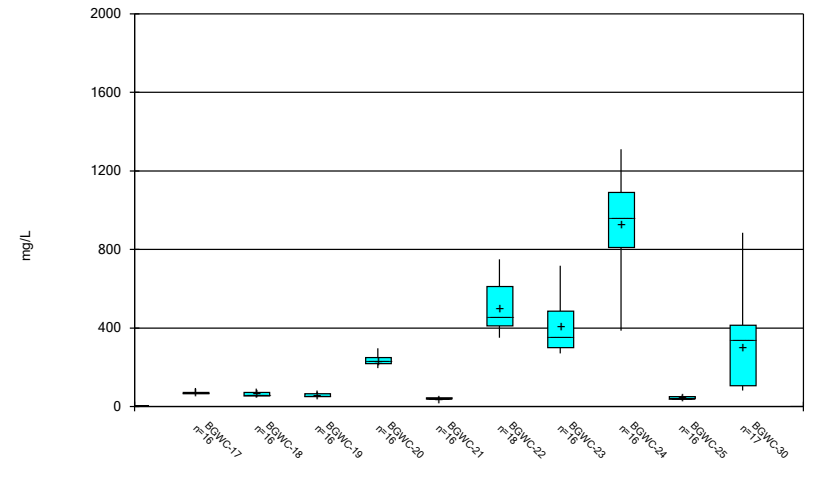
Constituent: Cadmium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



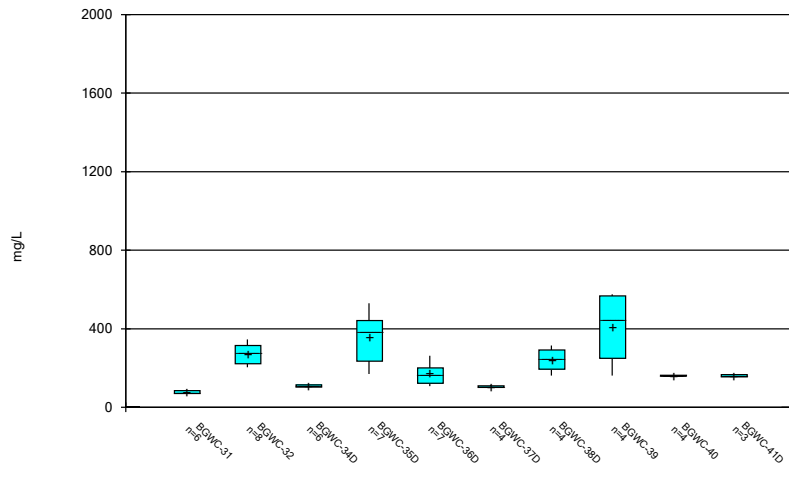
Constituent: Calcium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



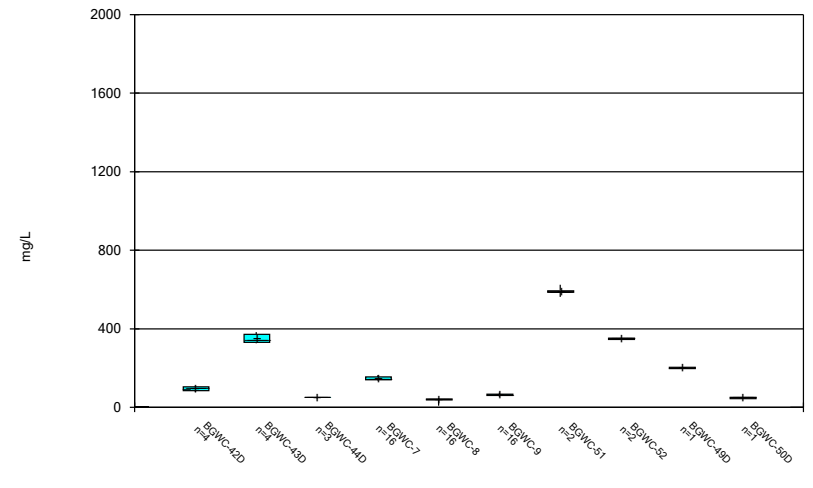
Constituent: Calcium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



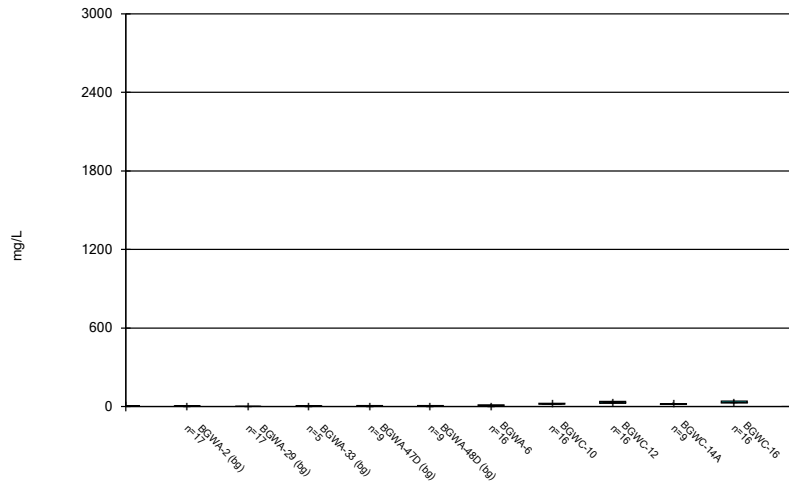
Constituent: Calcium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



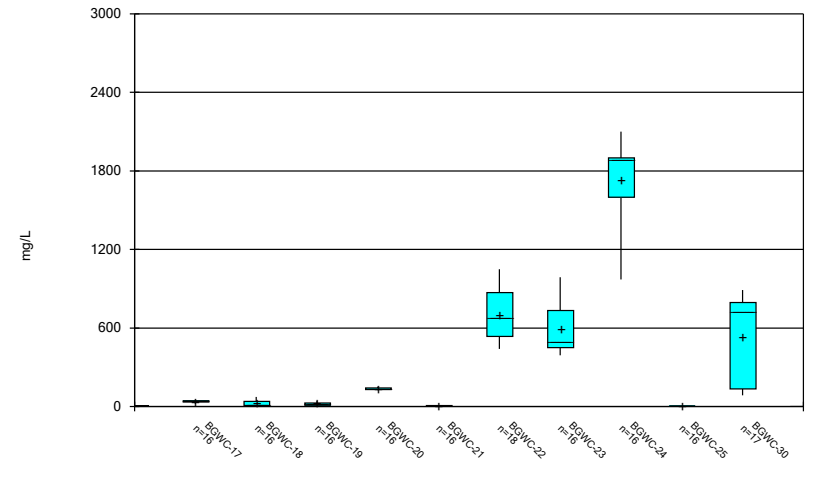
Constituent: Calcium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



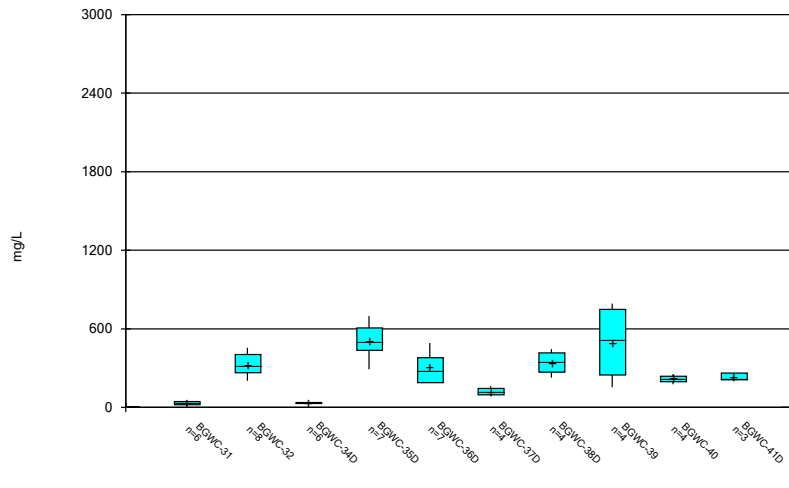
Constituent: Chloride Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



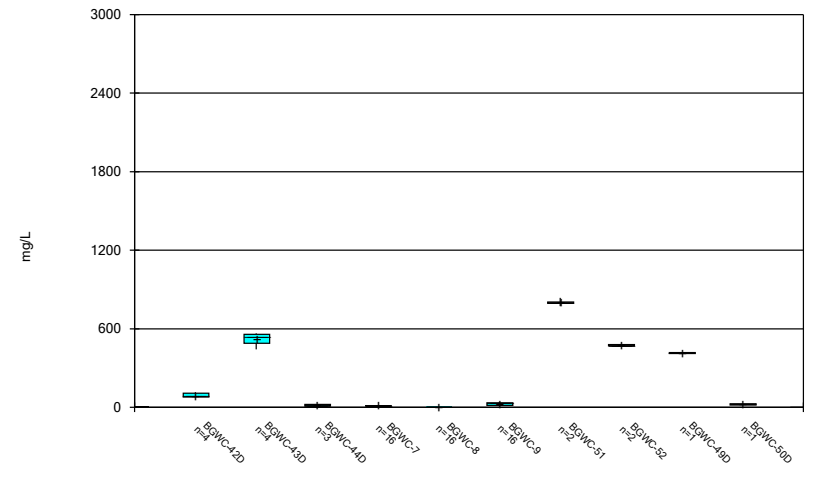
Constituent: Chloride Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



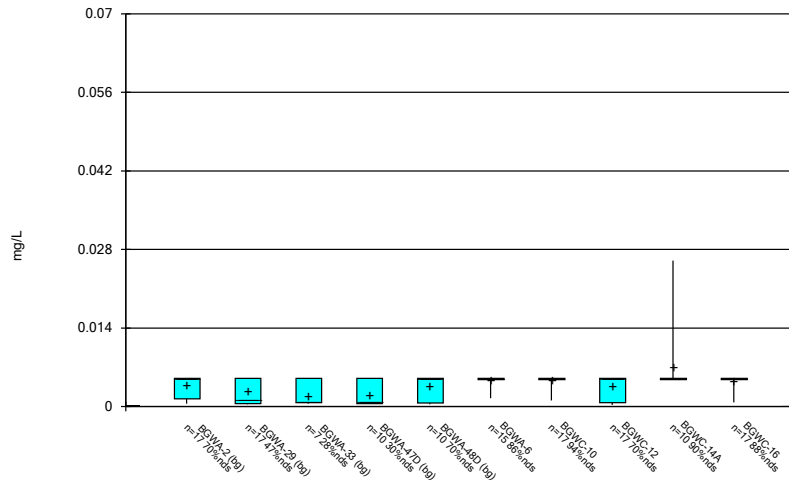
Constituent: Chloride Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



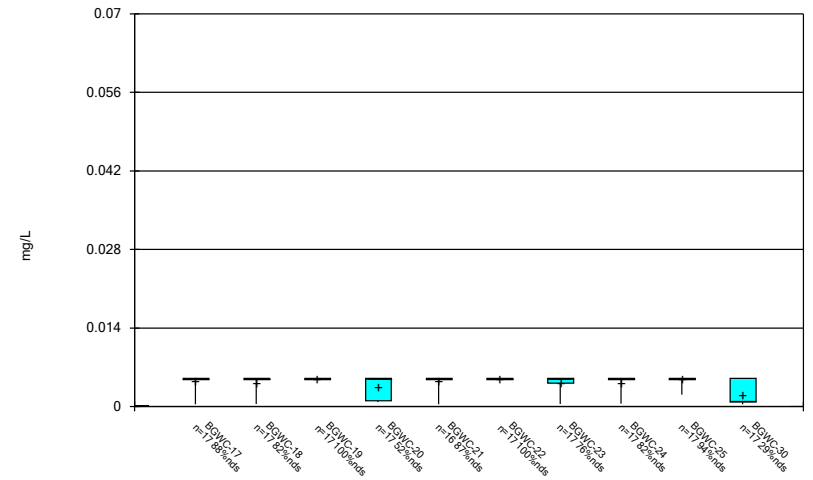
Constituent: Chloride Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



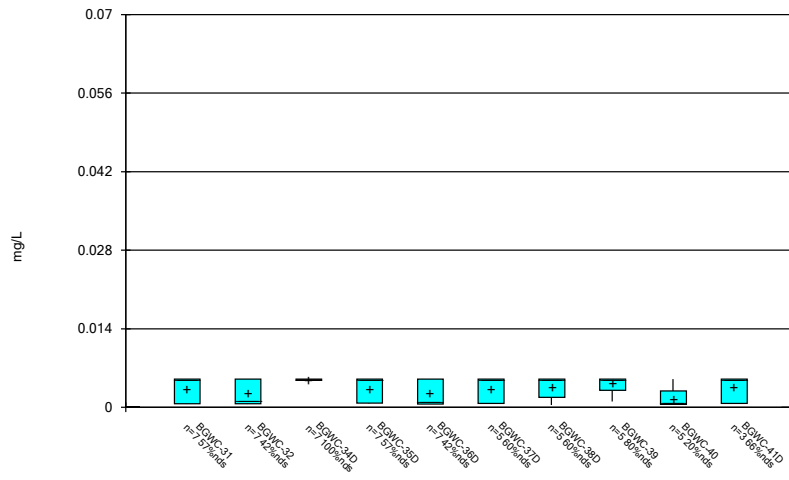
Constituent: Chromium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



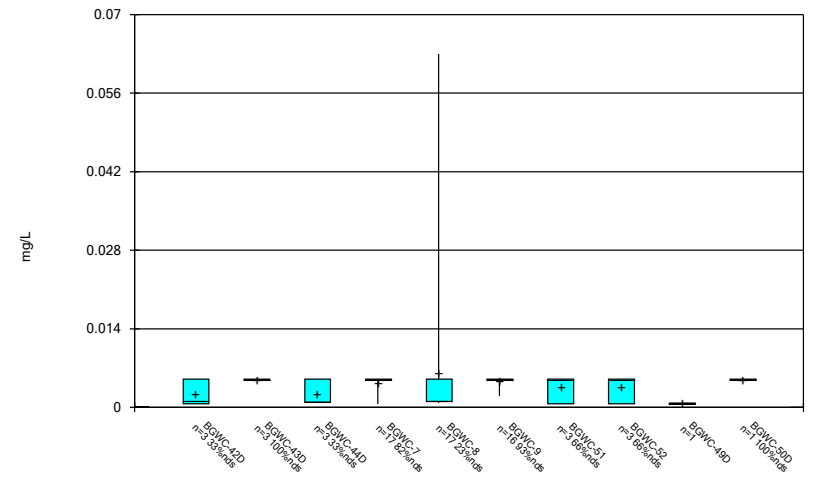
Constituent: Chromium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



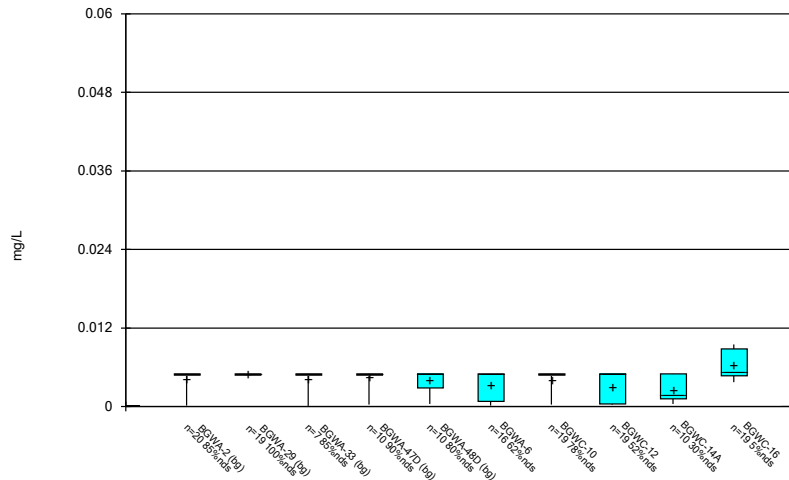
Constituent: Chromium Analysis Run 5/17/2021 1:39 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



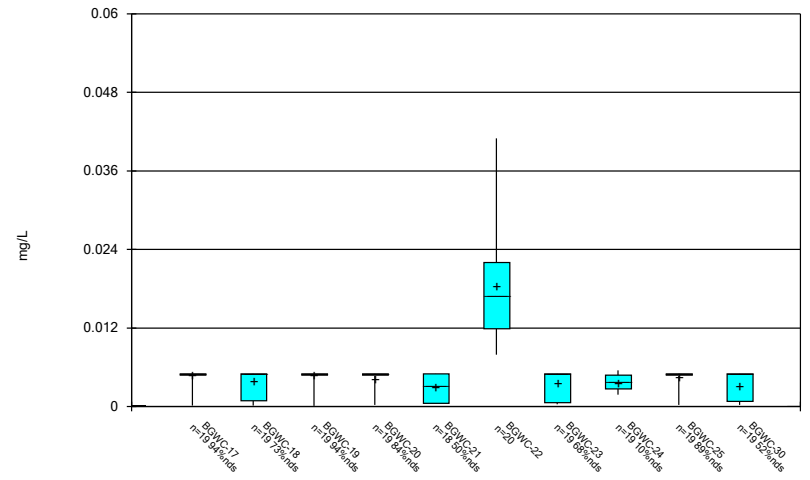
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



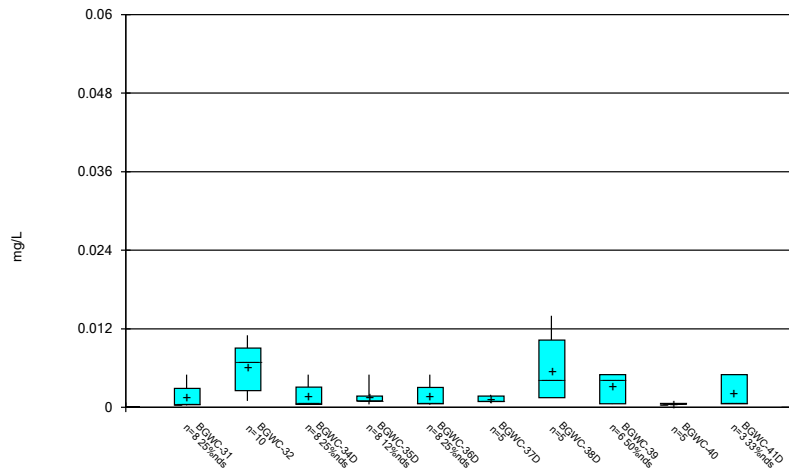
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



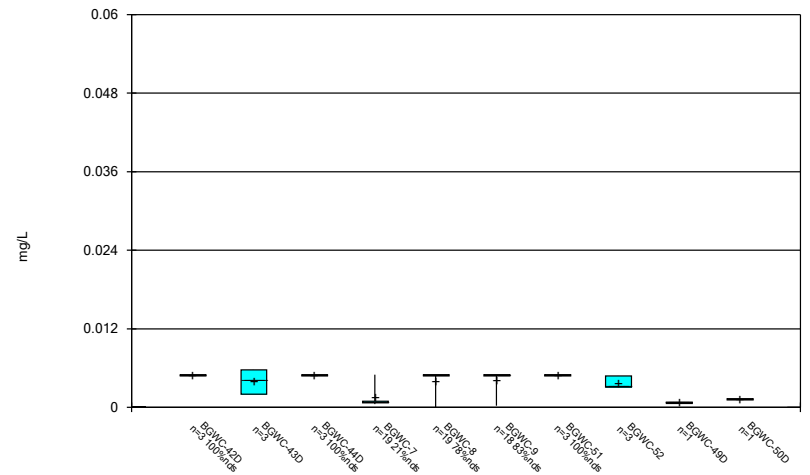
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



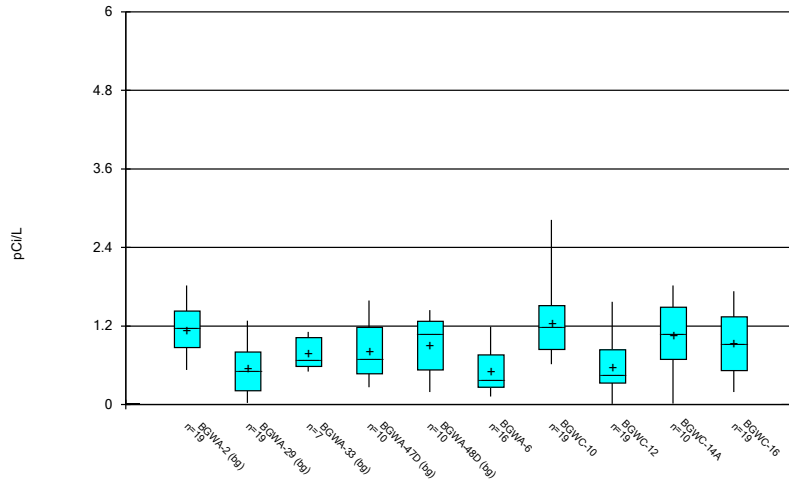
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



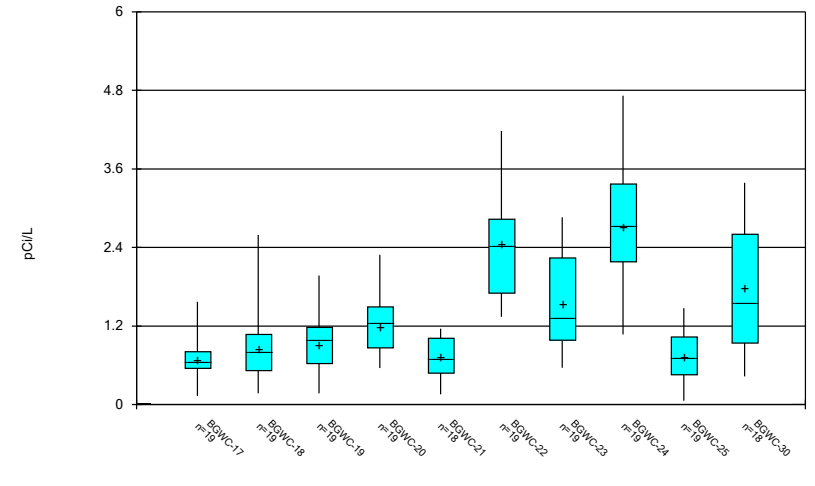
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



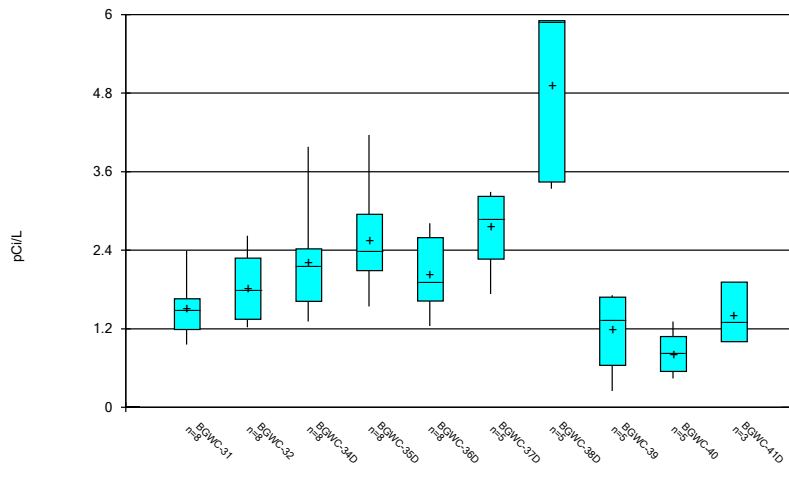
Constituent: Combined Radium 226 + 228 Analysis Run 6/3/2021 3:08 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



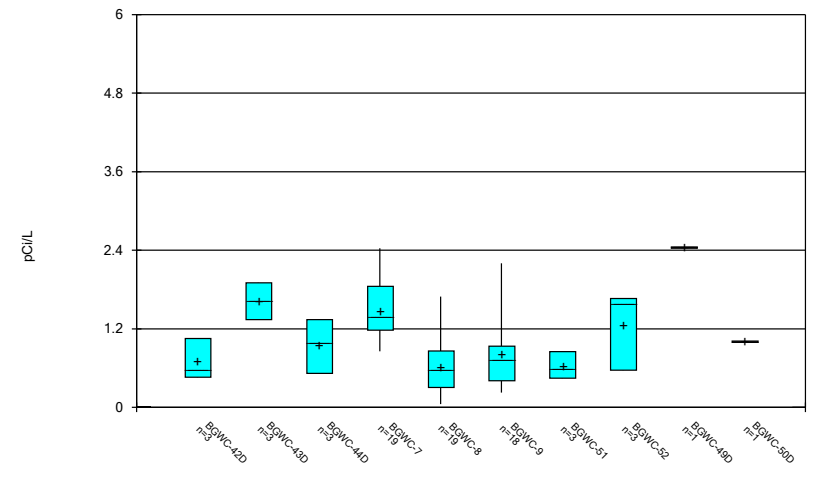
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



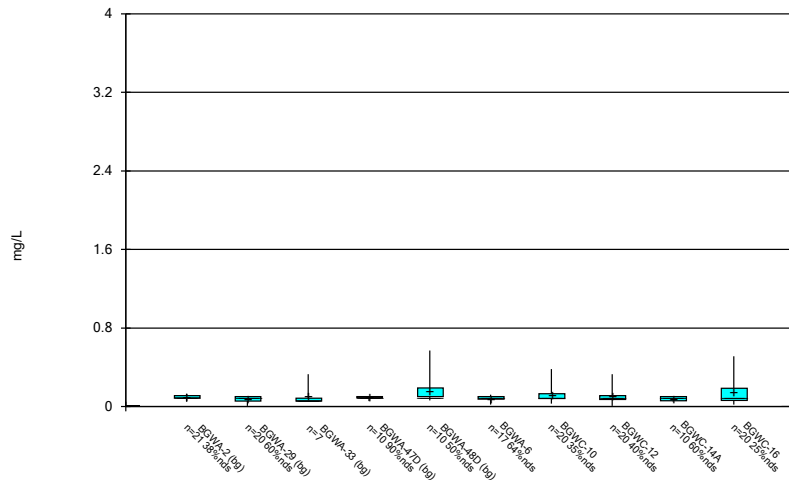
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



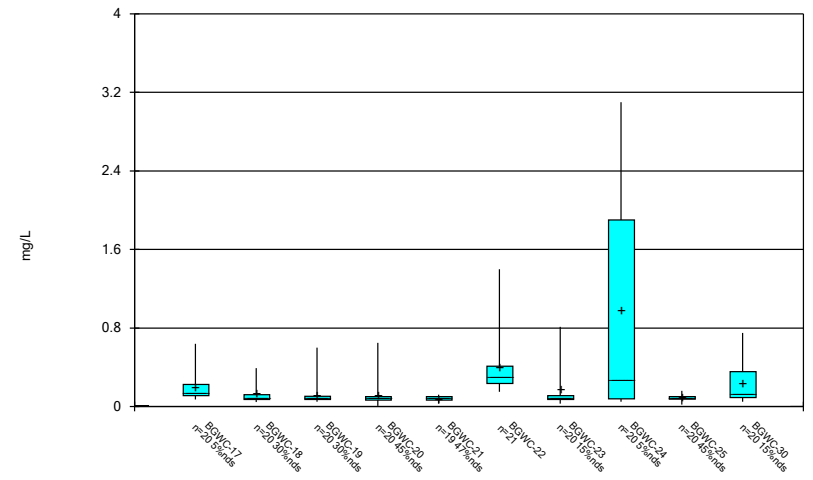
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



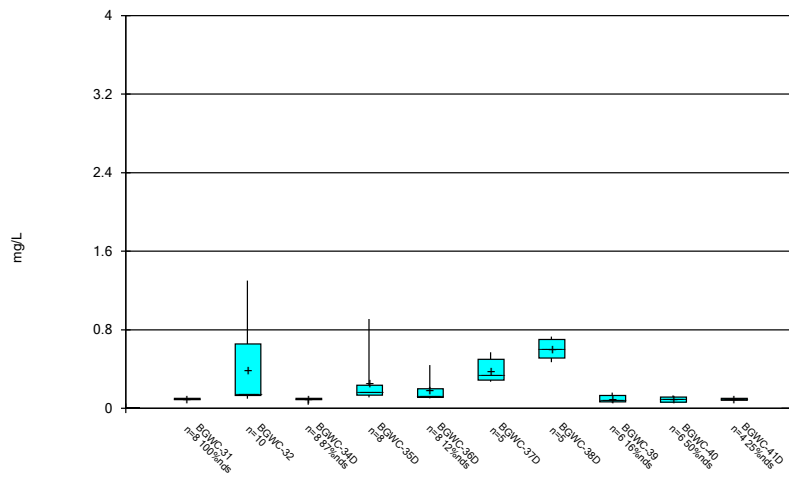
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



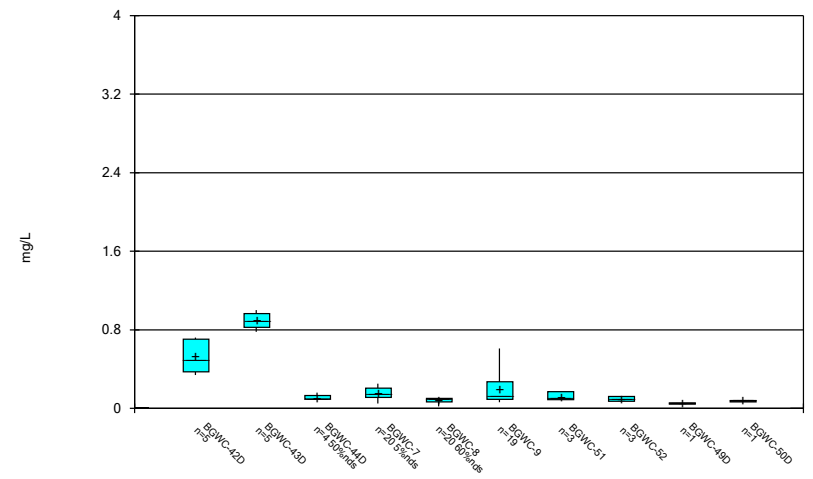
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



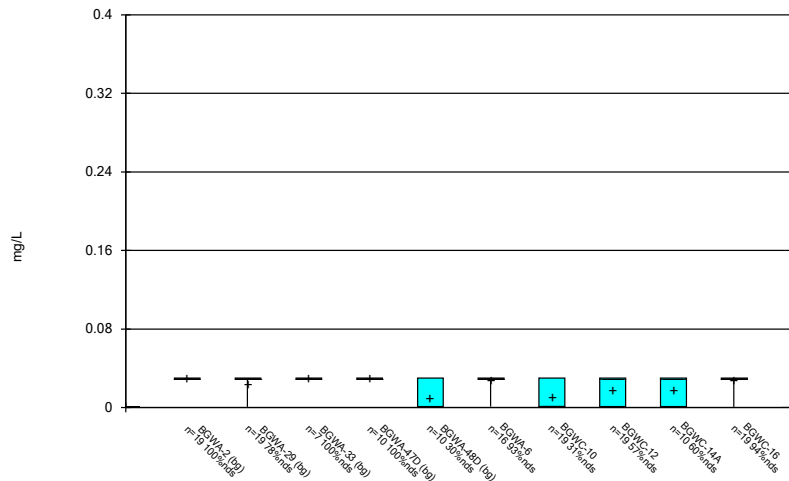
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Box & Whiskers Plot



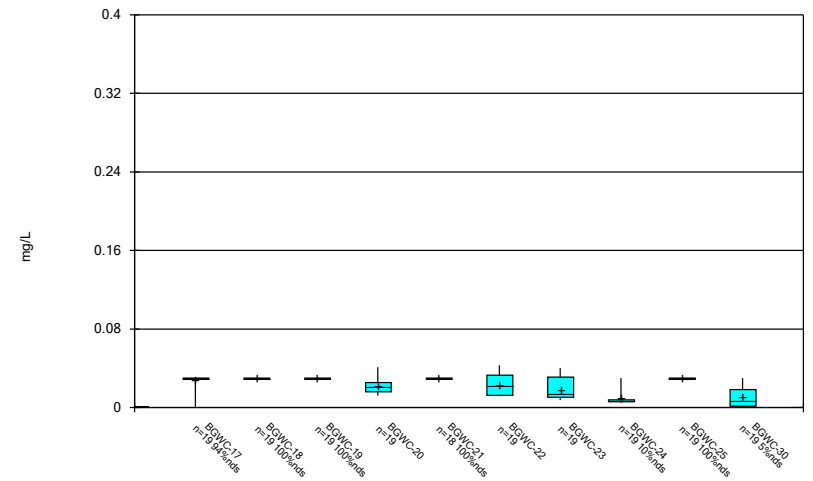
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Box & Whiskers Plot



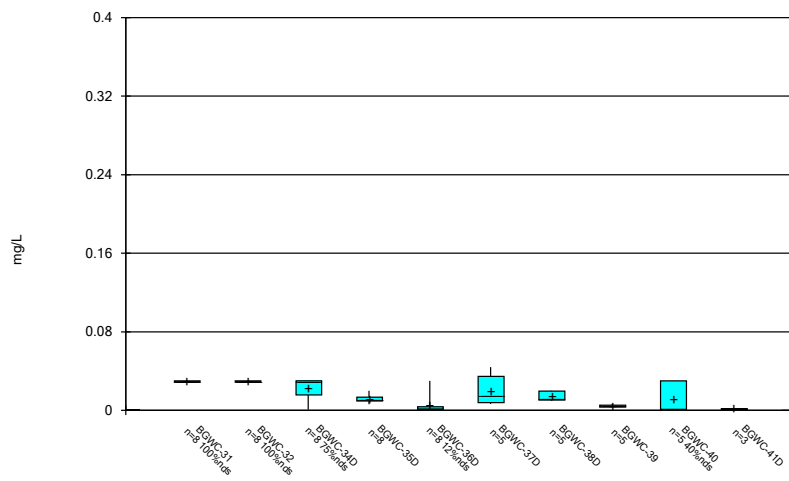
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Box & Whiskers Plot



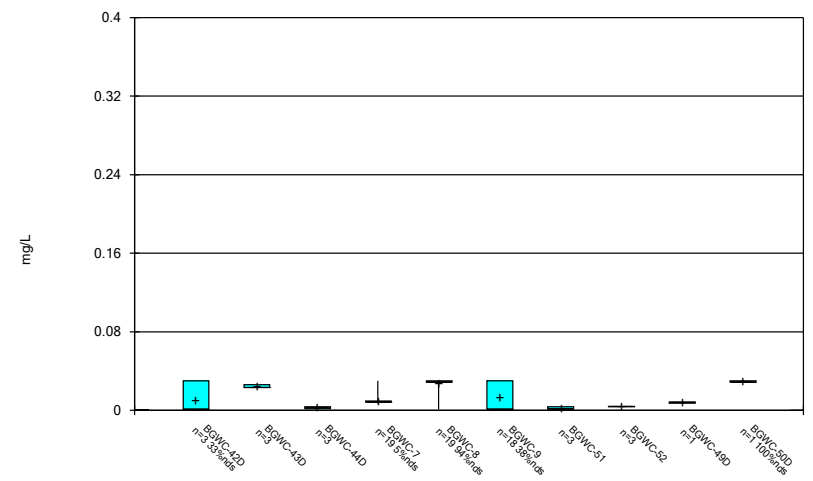
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Box & Whiskers Plot



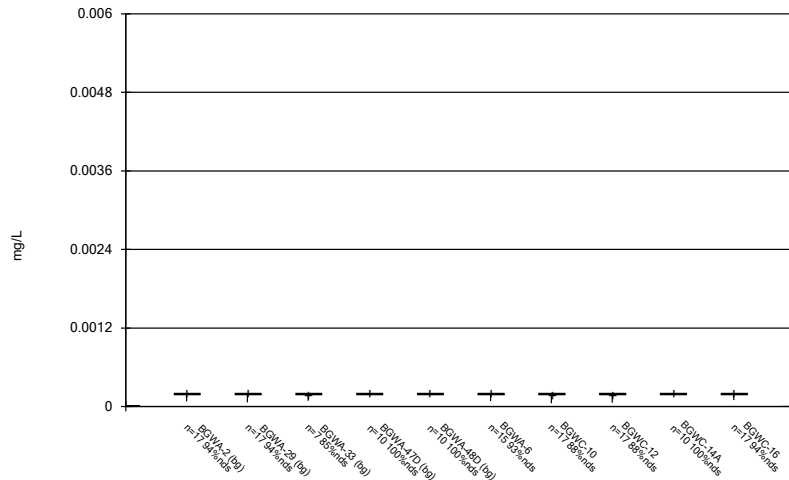
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Box & Whiskers Plot



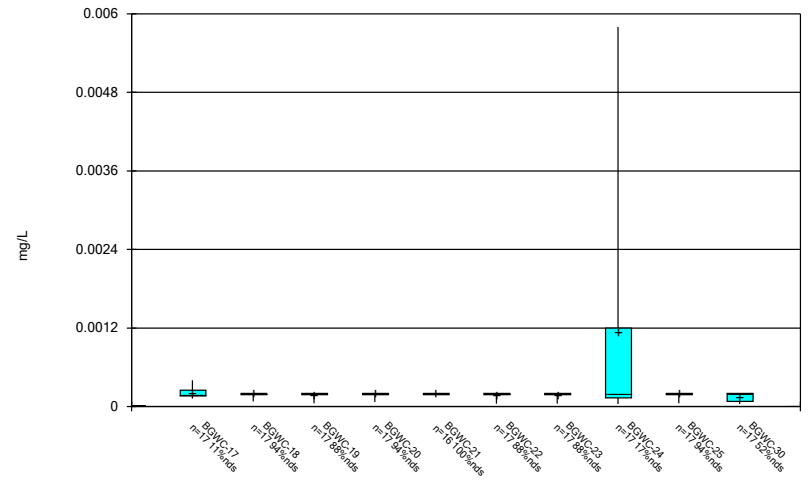
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Box & Whiskers Plot



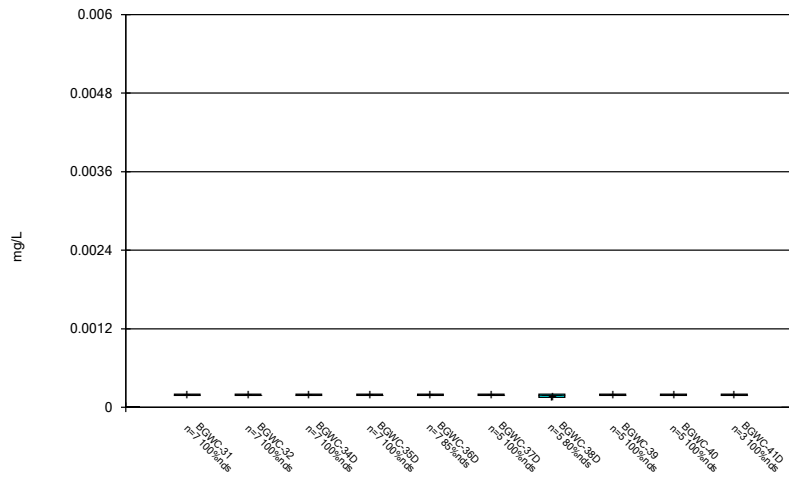
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Box & Whiskers Plot



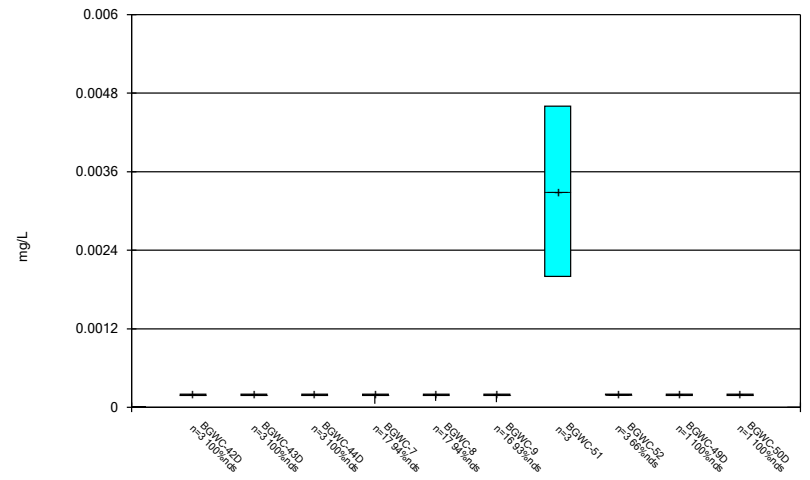
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Box & Whiskers Plot



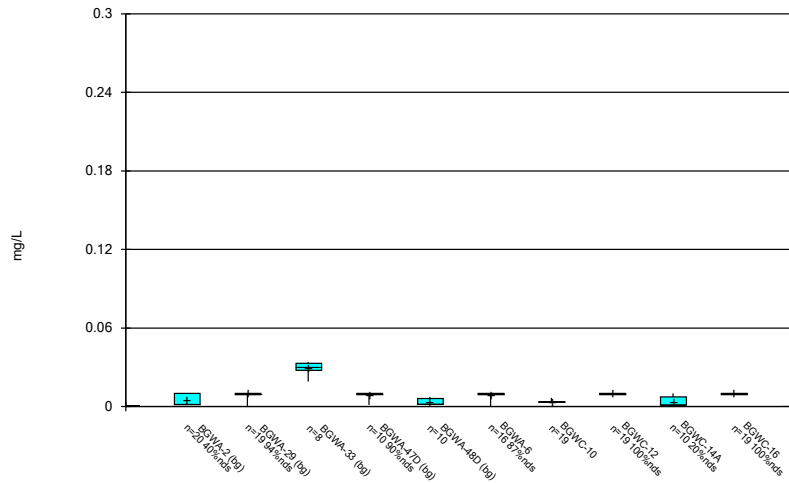
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



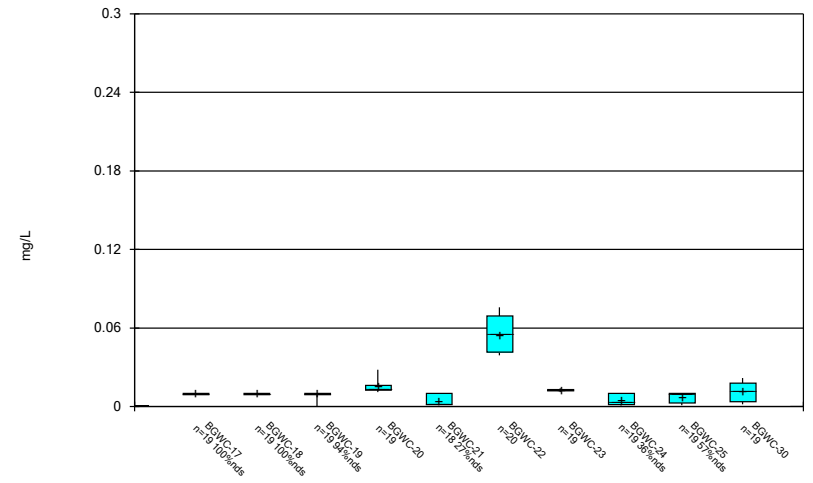
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Box & Whiskers Plot



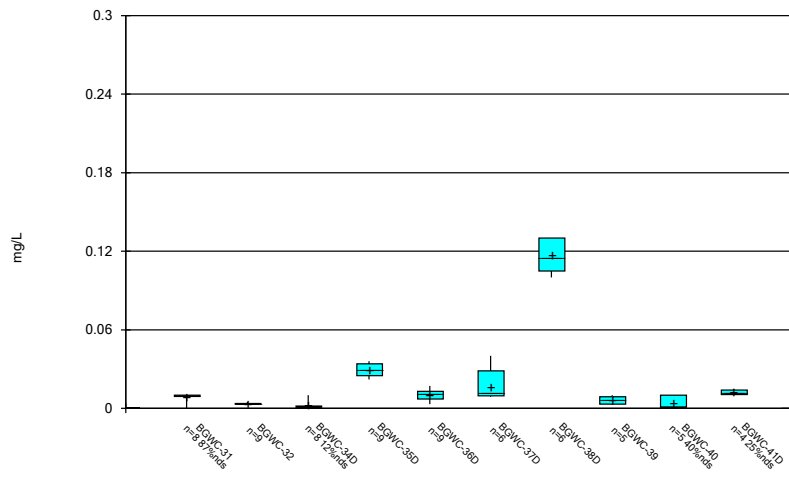
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



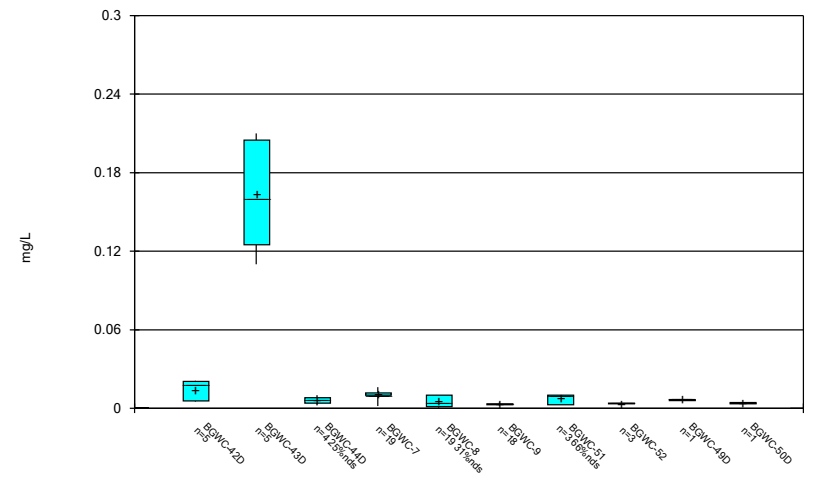
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



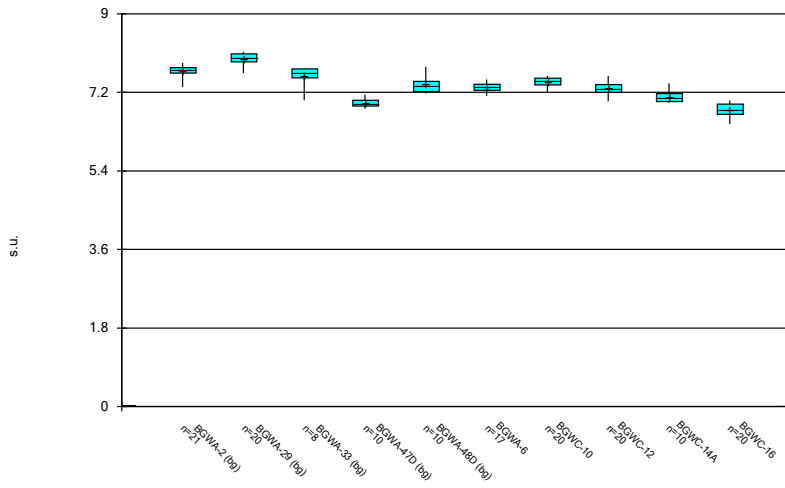
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



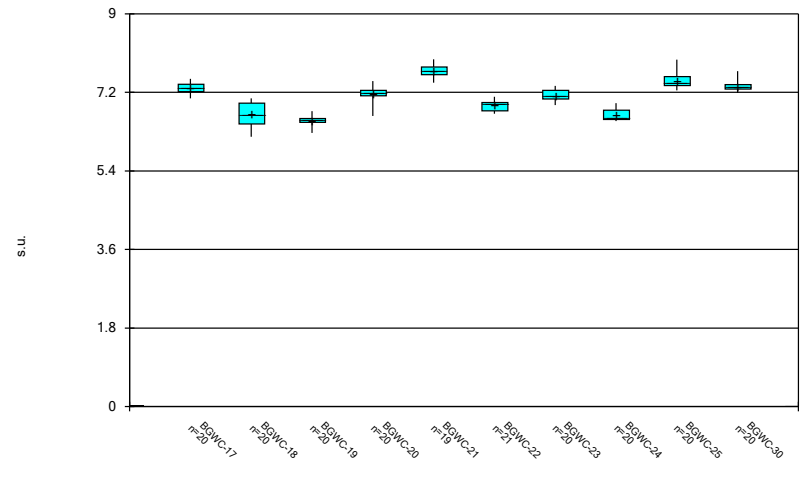
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



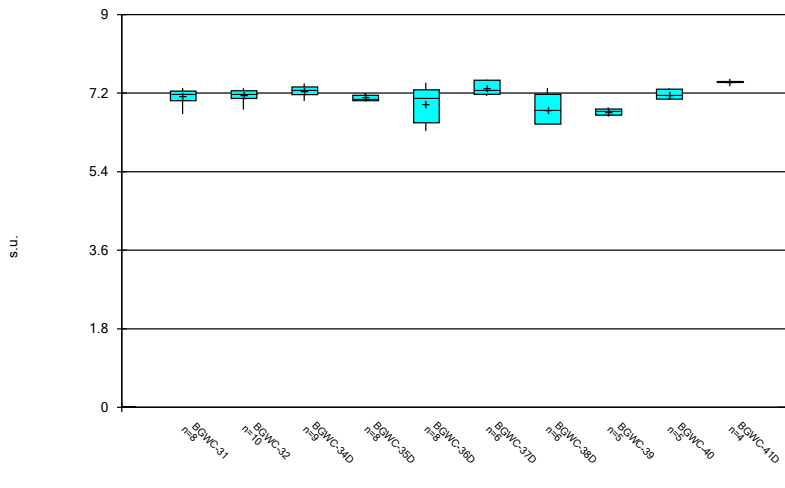
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Box & Whiskers Plot



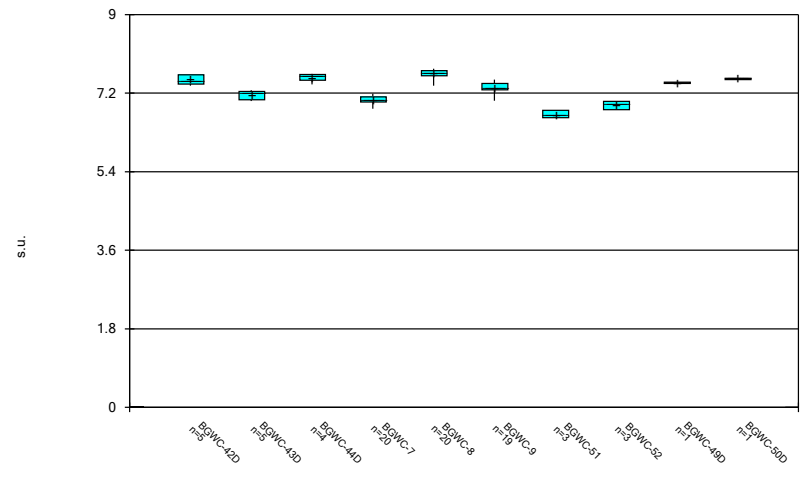
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Box & Whiskers Plot



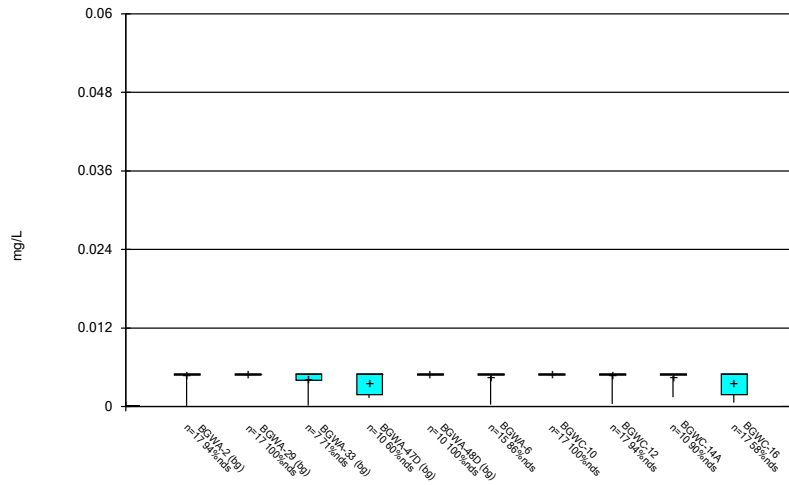
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Box & Whiskers Plot



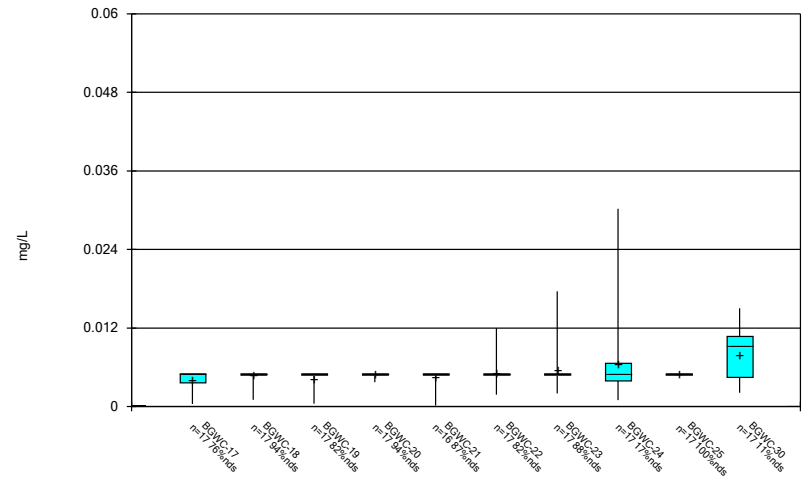
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



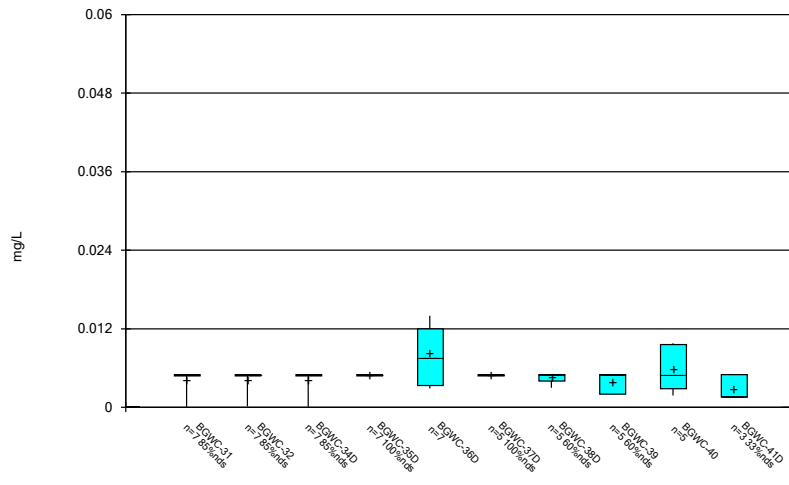
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Box & Whiskers Plot



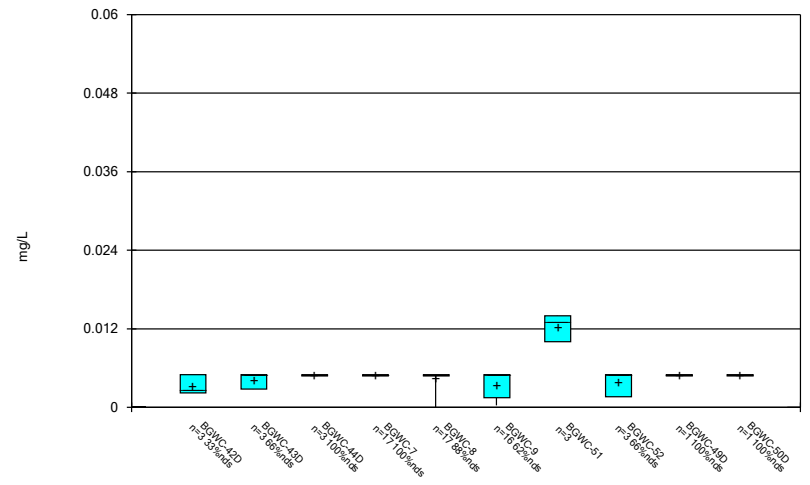
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Box & Whiskers Plot



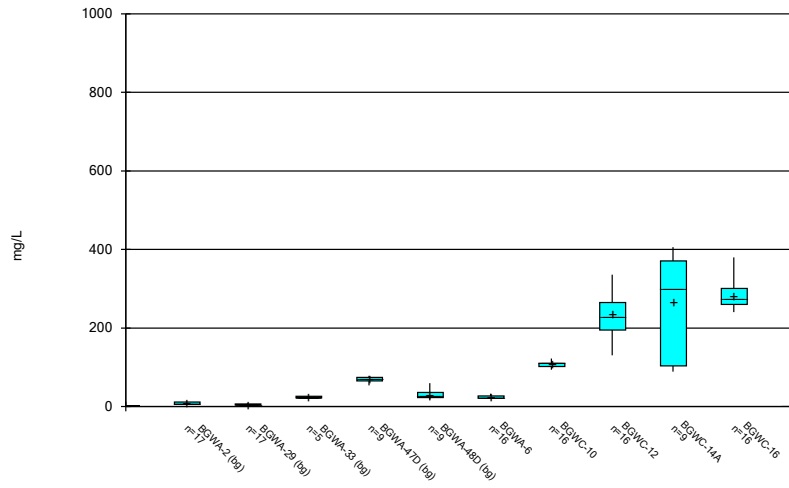
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Box & Whiskers Plot



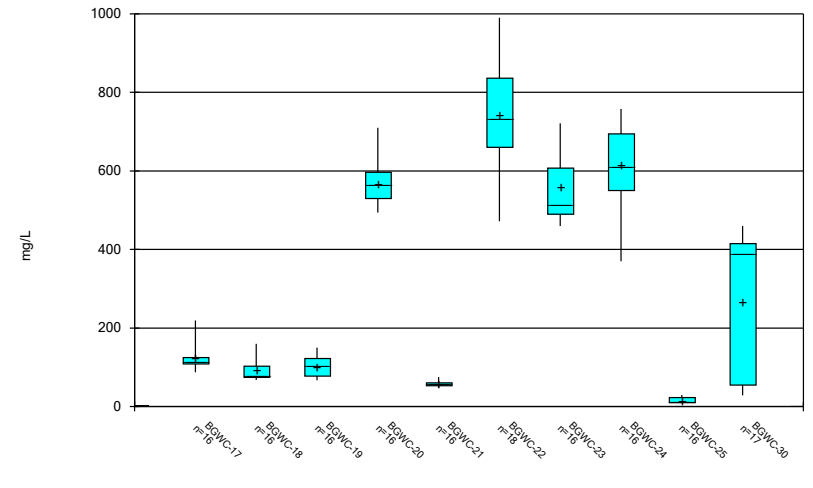
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Box & Whiskers Plot



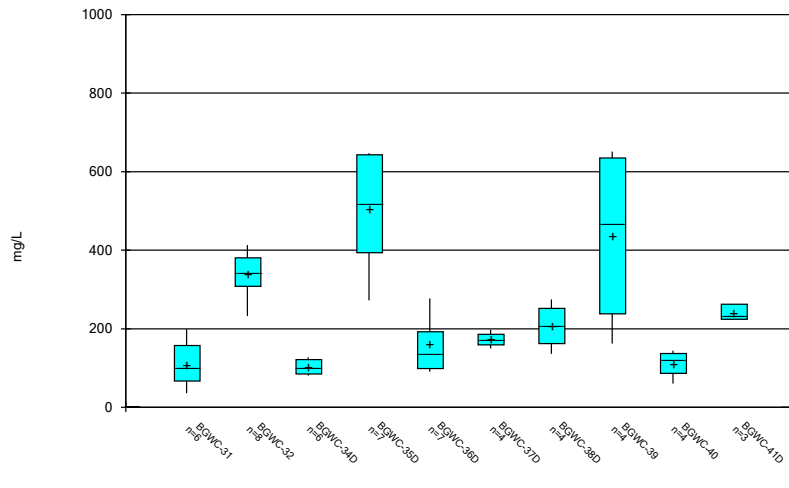
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Box & Whiskers Plot



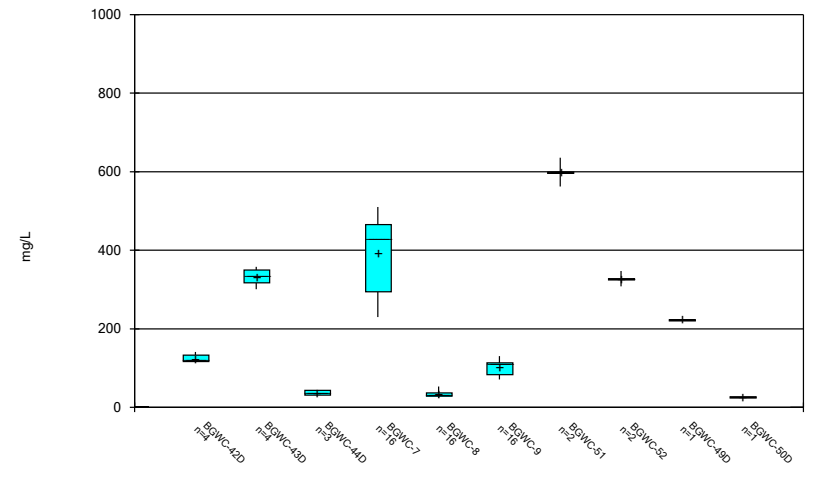
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Box & Whiskers Plot



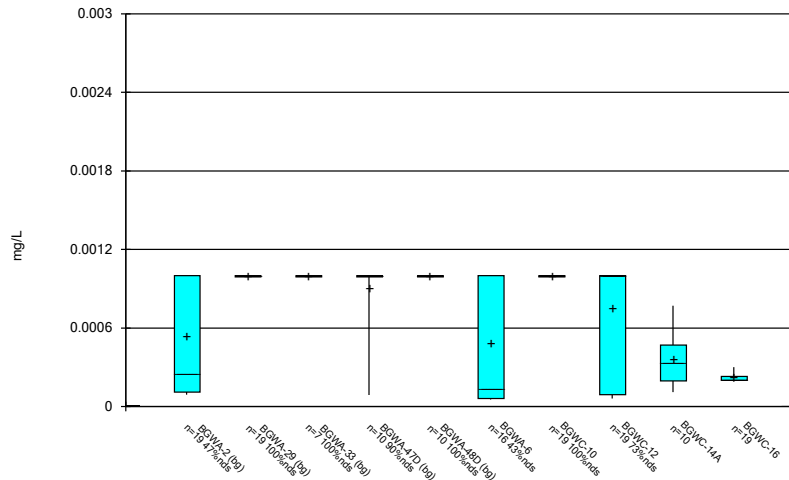
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Box & Whiskers Plot



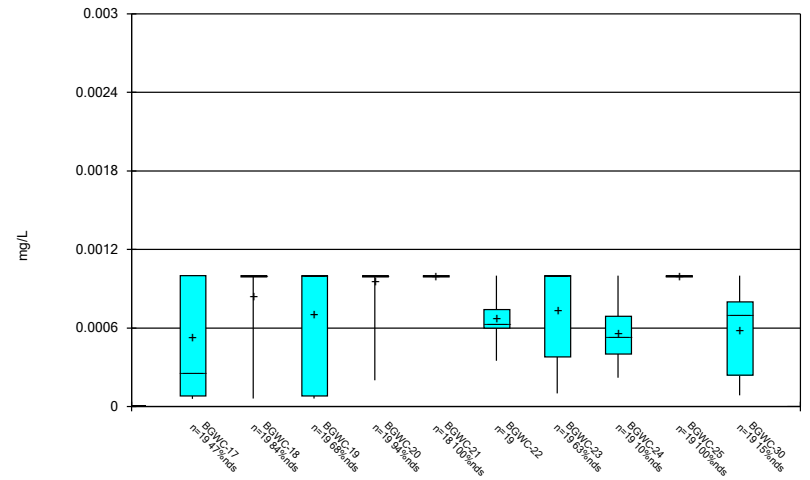
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



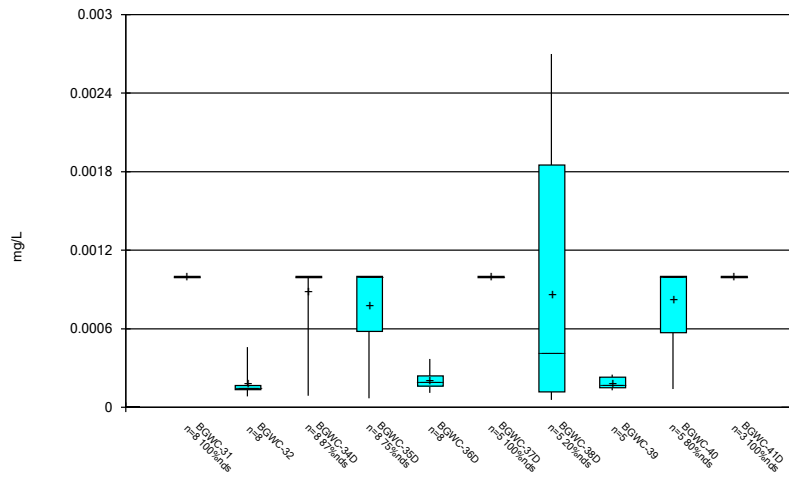
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



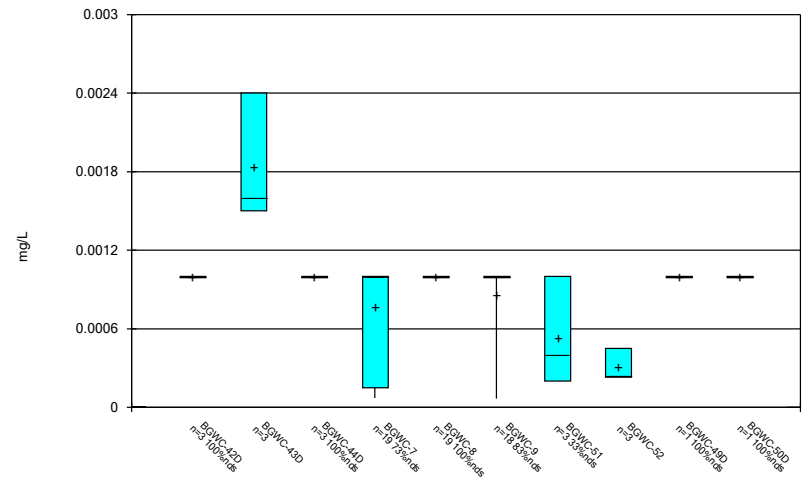
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Box & Whiskers Plot



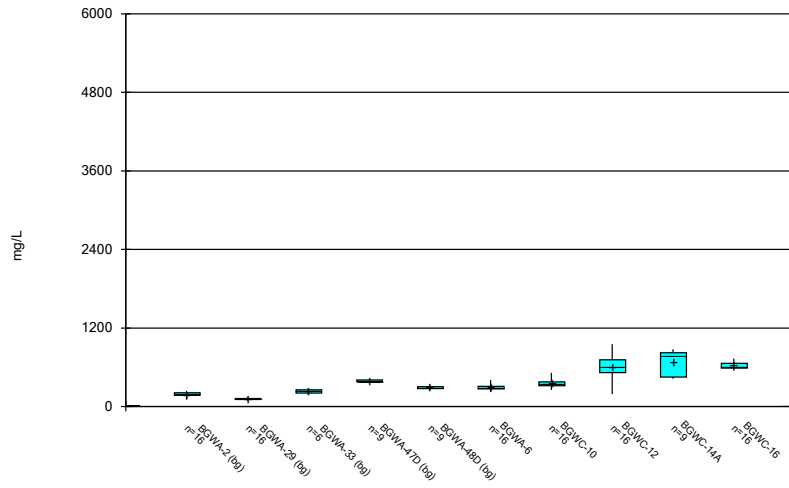
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Box & Whiskers Plot



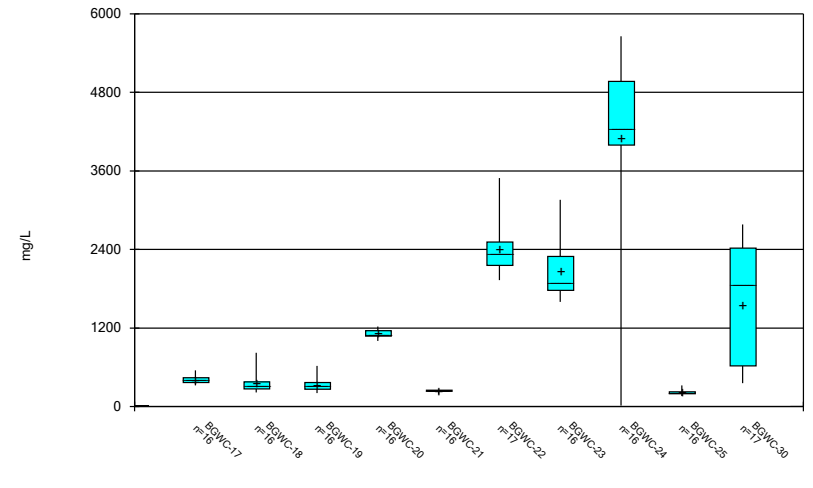
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Box & Whiskers Plot



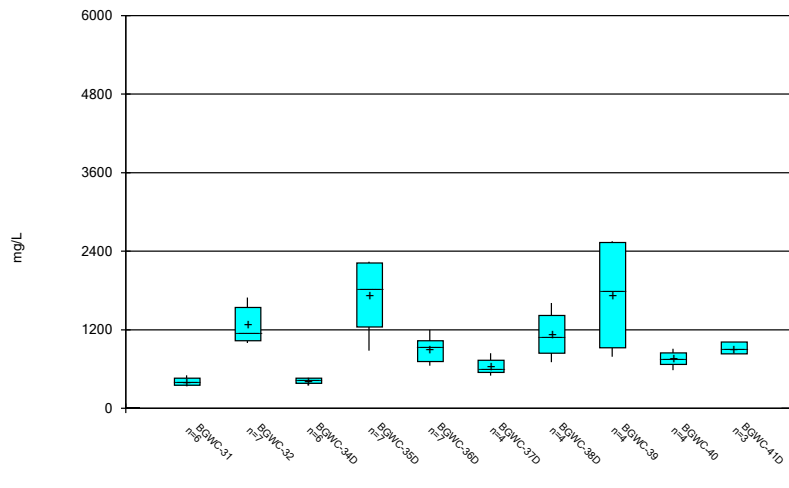
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



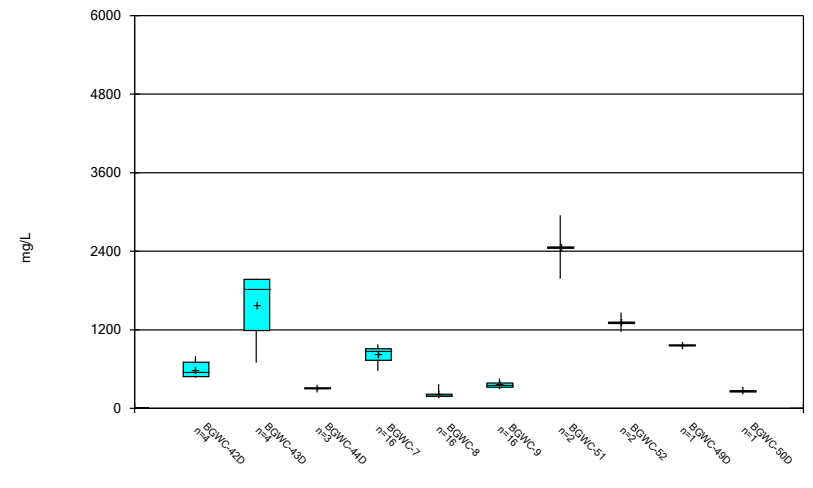
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:40 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 1:40 PM
 Plant Bowen Client: Southern Company Data: Bowen AP-1

FIGURE C.

Outlier Summary

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:30 PM

	BGWA-33 Boron (mg/L)	BGWA-33 Chloride (mg/L)	BGWA-33 Sulfate (mg/L)	BGWA-29 Total Dissolved Solids (mg/L)
2/14/2017				345 (o)
4/3/2019	0.66 (o)			
9/27/2019		394 (o)	200 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BGWC-10	0.043	n/a	3/30/2021	0.56	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-12	0.043	n/a	3/24/2021	1.2	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-14A	0.043	n/a	3/24/2021	0.6	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-16	0.043	n/a	3/24/2021	1.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-17	0.043	n/a	3/24/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-18	0.043	n/a	3/24/2021	0.5	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-19	0.043	n/a	3/26/2021	0.24	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-20	0.043	n/a	3/29/2021	4.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-22	0.043	n/a	3/29/2021	17.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-23	0.043	n/a	3/26/2021	15.8	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-24	0.043	n/a	3/26/2021	31	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-25	0.043	n/a	3/26/2021	0.17	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-30	0.043	n/a	3/25/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-7	0.043	n/a	3/30/2021	1.4	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-9	0.043	n/a	3/24/2021	0.45	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-12	117	n/a	3/24/2021	144	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-16	117	n/a	3/24/2021	140	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-20	117	n/a	3/29/2021	296	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-22	117	n/a	3/29/2021	714	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-23	117	n/a	3/26/2021	717	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-24	117	n/a	3/26/2021	821	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-7	117	n/a	3/30/2021	145	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Chloride (mg/L)	BGWC-10	8.885	n/a	3/30/2021	23.8	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-12	8.885	n/a	3/24/2021	18.4	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-14A	8.885	n/a	3/24/2021	14.1	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-16	8.885	n/a	3/24/2021	24	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-17	8.885	n/a	3/24/2021	35.6	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-20	8.885	n/a	3/29/2021	131	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-22	8.885	n/a	3/29/2021	886	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-23	8.885	n/a	3/26/2021	928	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-24	8.885	n/a	3/26/2021	1240	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-30	8.885	n/a	3/25/2021	85.5	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
pH (s.u.)	BGWC-16	8.317	6.789	3/24/2021	6.7	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-18	8.317	6.789	3/24/2021	6.48	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-19	8.317	6.789	3/26/2021	6.61	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-22	8.317	6.789	3/29/2021	6.71	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-24	8.317	6.789	3/26/2021	6.54	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
Sulfate (mg/L)	BGWC-10	78	n/a	3/30/2021	104	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-12	78	n/a	3/24/2021	301	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-14A	78	n/a	3/24/2021	115	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-16	78	n/a	3/24/2021	317	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-17	78	n/a	3/24/2021	93.7	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-20	78	n/a	3/29/2021	504	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-22	78	n/a	3/29/2021	772	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-23	78	n/a	3/26/2021	679	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-24	78	n/a	3/26/2021	515	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-7	78	n/a	3/30/2021	290	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BGWC-12	461	n/a	3/24/2021	752	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-16	461	n/a	3/24/2021	610	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-20	461	n/a	3/29/2021	1100	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-22	461	n/a	3/29/2021	2430	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-23	461	n/a	3/26/2021	2690	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-24	461	n/a	3/26/2021	3070	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-7	461	n/a	3/30/2021	570	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	BGWC-10	0.043	n/a	3/30/2021	0.56	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-12	0.043	n/a	3/24/2021	1.2	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-14A	0.043	n/a	3/24/2021	0.6	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-16	0.043	n/a	3/24/2021	1.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-17	0.043	n/a	3/24/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-18	0.043	n/a	3/24/2021	0.5	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-19	0.043	n/a	3/26/2021	0.24	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-20	0.043	n/a	3/29/2021	4.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-21	0.043	n/a	3/29/2021	0.038J	No	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-22	0.043	n/a	3/29/2021	17.3	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-23	0.043	n/a	3/26/2021	15.8	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-24	0.043	n/a	3/26/2021	31	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-25	0.043	n/a	3/26/2021	0.17	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-30	0.043	n/a	3/25/2021	1.1	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-7	0.043	n/a	3/30/2021	1.4	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-8	0.043	n/a	3/24/2021	0.04J	No	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Boron (mg/L)	BGWC-9	0.043	n/a	3/24/2021	0.45	Yes	58	n/a	n/a	18.97	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-10	117	n/a	3/30/2021	61.3	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-12	117	n/a	3/24/2021	144	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-14A	117	n/a	3/24/2021	91.9	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-16	117	n/a	3/24/2021	140	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-17	117	n/a	3/24/2021	72	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-18	117	n/a	3/24/2021	48.2	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-19	117	n/a	3/26/2021	46.4	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-20	117	n/a	3/29/2021	296	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-21	117	n/a	3/29/2021	46.6	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-22	117	n/a	3/29/2021	714	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-23	117	n/a	3/26/2021	717	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-24	117	n/a	3/26/2021	821	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-25	117	n/a	3/26/2021	52.8	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-30	117	n/a	3/25/2021	81.1	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-7	117	n/a	3/30/2021	145	Yes	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-8	117	n/a	3/24/2021	42.1	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Calcium (mg/L)	BGWC-9	117	n/a	3/24/2021	59.9	No	58	n/a	n/a	0	n/a	n/a	0.0005499	NP Inter (normality) 1 of 2
Chloride (mg/L)	BGWC-10	8.885	n/a	3/30/2021	23.8	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-12	8.885	n/a	3/24/2021	18.4	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-14A	8.885	n/a	3/24/2021	14.1	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-16	8.885	n/a	3/24/2021	24	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-17	8.885	n/a	3/24/2021	35.6	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-18	8.885	n/a	3/24/2021	6.1	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-19	8.885	n/a	3/26/2021	5.8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-20	8.885	n/a	3/29/2021	131	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-21	8.885	n/a	3/29/2021	5	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-22	8.885	n/a	3/29/2021	886	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-23	8.885	n/a	3/26/2021	928	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-24	8.885	n/a	3/26/2021	1240	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-25	8.885	n/a	3/26/2021	5.7	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-30	8.885	n/a	3/25/2021	85.5	Yes	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-7	8.885	n/a	3/30/2021	8.8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-8	8.885	n/a	3/24/2021	1.5	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Chloride (mg/L)	BGWC-9	8.885	n/a	3/24/2021	8	No	57	1.841	0.5298	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Fluoride (mg/L)	BGWC-10	0.57	n/a	3/30/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-12	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-14A	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-16	0.57	n/a	3/24/2021	0.053J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-17	0.57	n/a	3/24/2021	0.11	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-18	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-19	0.57	n/a	3/26/2021	0.053J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-20	0.57	n/a	3/29/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-21	0.57	n/a	3/29/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2

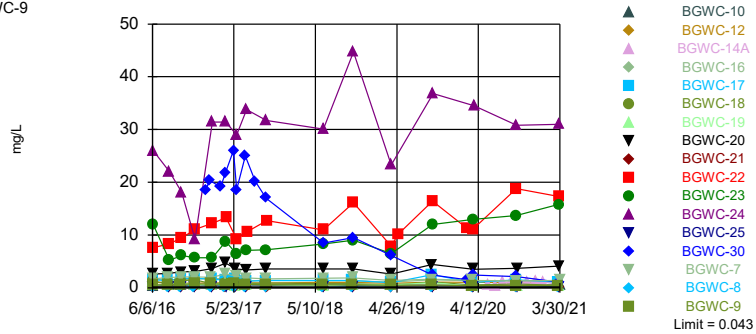
Appendix III Interwell Prediction Limits - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-22	0.57	n/a	3/29/2021	0.22	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-23	0.57	n/a	3/26/2021	0.054J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-24	0.57	n/a	3/26/2021	0.095J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-25	0.57	n/a	3/26/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-30	0.57	n/a	3/25/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-7	0.57	n/a	3/30/2021	0.18	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-8	0.57	n/a	3/24/2021	0.1ND	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
Fluoride (mg/L)	BGWC-9	0.57	n/a	3/24/2021	0.075J	No	68	n/a	n/a	50	n/a	n/a	0.0004056	NP Inter (normality) 1 of 2
pH (s.u.)	BGWC-10	8.317	6.789	3/30/2021	7.41	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-12	8.317	6.789	3/24/2021	7.04	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-14A	8.317	6.789	3/24/2021	7.04	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-16	8.317	6.789	3/24/2021	6.7	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-17	8.317	6.789	3/24/2021	7.27	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-18	8.317	6.789	3/24/2021	6.48	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-19	8.317	6.789	3/26/2021	6.61	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-20	8.317	6.789	3/29/2021	7.24	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-21	8.317	6.789	3/29/2021	7.75	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-22	8.317	6.789	3/29/2021	6.71	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-23	8.317	6.789	3/26/2021	6.91	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-24	8.317	6.789	3/26/2021	6.54	Yes	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-25	8.317	6.789	3/26/2021	7.36	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-30	8.317	6.789	3/25/2021	7.21	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-7	8.317	6.789	3/30/2021	7.05	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-8	8.317	6.789	3/24/2021	7.66	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
pH (s.u.)	BGWC-9	8.317	6.789	3/24/2021	7.26	No	69	444.1	61.66	0	None	x^3	0.0002213	Param Inter 1 of 2
Sulfate (mg/L)	BGWC-10	78	n/a	3/30/2021	104	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-12	78	n/a	3/24/2021	301	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-14A	78	n/a	3/24/2021	115	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-16	78	n/a	3/24/2021	317	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-17	78	n/a	3/24/2021	93.7	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-18	78	n/a	3/24/2021	67.3	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-19	78	n/a	3/26/2021	66.8	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-20	78	n/a	3/29/2021	504	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-21	78	n/a	3/29/2021	55.2	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-22	78	n/a	3/29/2021	772	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-23	78	n/a	3/26/2021	679	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-24	78	n/a	3/26/2021	515	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-25	78	n/a	3/26/2021	21.3	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-30	78	n/a	3/25/2021	28.1	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-7	78	n/a	3/30/2021	290	Yes	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-8	78	n/a	3/24/2021	24.2	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Sulfate (mg/L)	BGWC-9	78	n/a	3/24/2021	70.5	No	57	n/a	n/a	0	n/a	n/a	0.0005705	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	BGWC-10	461	n/a	3/30/2021	321	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-12	461	n/a	3/24/2021	752	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-14A	461	n/a	3/24/2021	445	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-16	461	n/a	3/24/2021	610	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-17	461	n/a	3/24/2021	374	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-18	461	n/a	3/24/2021	240	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-19	461	n/a	3/26/2021	205	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-20	461	n/a	3/29/2021	1100	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-21	461	n/a	3/29/2021	198	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-22	461	n/a	3/29/2021	2430	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-23	461	n/a	3/26/2021	2690	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-24	461	n/a	3/26/2021	3070	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-25	461	n/a	3/26/2021	215	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-30	461	n/a	3/25/2021	358	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-7	461	n/a	3/30/2021	570	Yes	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-8	461	n/a	3/24/2021	198	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	BGWC-9	461	n/a	3/24/2021	294	No	56	14.51	3.233	0	None	sqrt(x)	0.0004426	Param Inter 1 of 2

Exceeds Limit: BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-18, BGWC-19, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-25, BGWC-30, BGWC-7, BGWC-9

Prediction Limit
Interwell Non-parametric

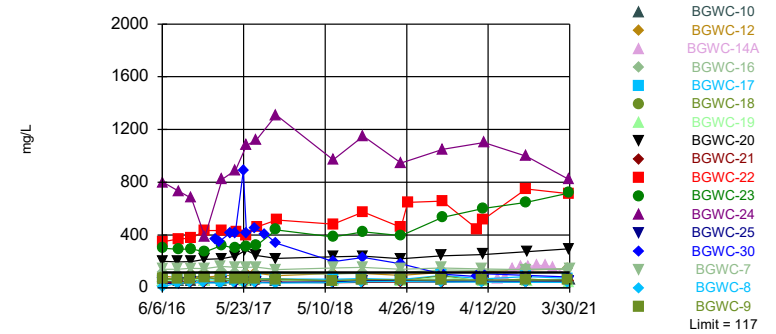


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 58 background values. 18.97% NDs. Annual per-constituent alpha = 0.01853. Individual comparison alpha = 0.0005499 (1 of 2). Comparing 17 points to limit.

Constituent: Boron Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Exceeds Limit: BGWC-12, BGWC-16, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-7

Prediction Limit
Interwell Non-parametric

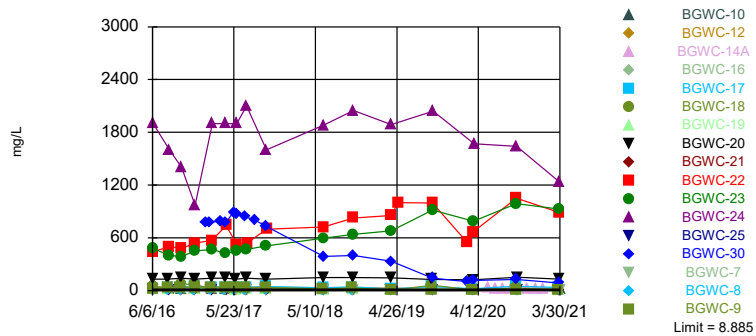


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 58 background values. Annual per-constituent alpha = 0.01853. Individual comparison alpha = 0.0005499 (1 of 2). Comparing 17 points to limit.

Constituent: Calcium Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Exceeds Limit: BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-30

Prediction Limit
Interwell Parametric

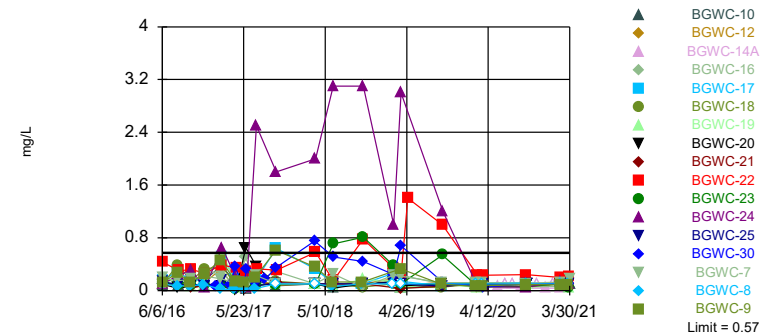


Background Data Summary (based on square root transformation): Mean=1.841, Std. Dev.=0.5298, n=57. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9531, critical = 0.944. Kappa = 2.151 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004426. Comparing 17 points to limit.

Constituent: Chloride Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Interwell Non-parametric

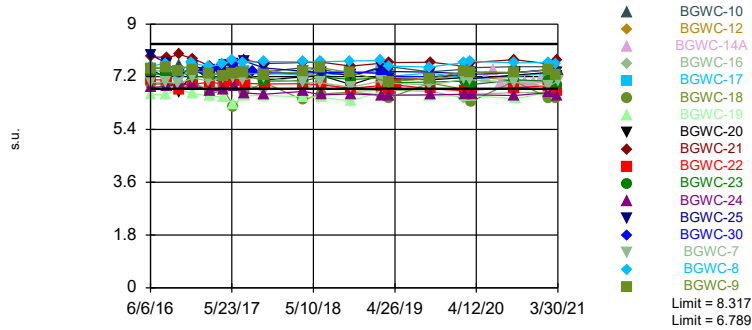


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 68 background values. 50% NDs. Annual per-constituent alpha = 0.0137. Individual comparison alpha = 0.0004056 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Exceeds Limits: BGWC-16, BGWC-18, BGWC-19, BGWC-22, BGWC-24

Prediction Limit
Interwell Parametric

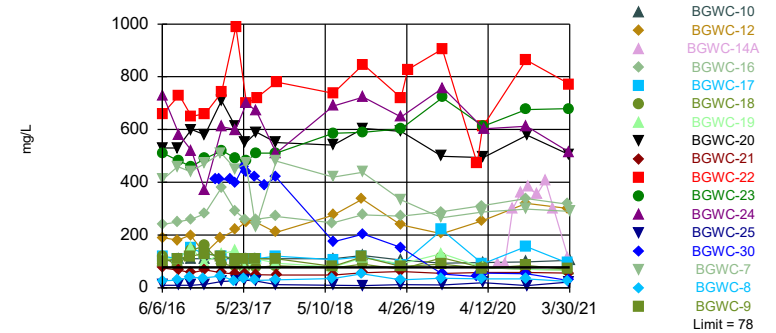


Background Data Summary (based on cube transformation): Mean=444.1, Std. Dev.=61.66, n=69. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9516, critical = 0.951. Kappa = 2.128 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0002213. Comparing 17 points to limit.

Constituent: pH Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Exceeds Limit: BGWC-10, BGWC-12, BGWC-14A, BGWC-16, BGWC-17, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-7

Prediction Limit
Interwell Non-parametric

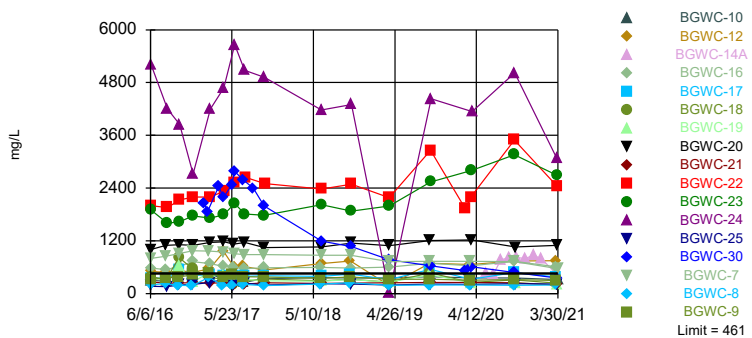


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 57 background values. Annual per-constituent alpha = 0.01922. Individual comparison alpha = 0.0005705 (1 of 2). Comparing 17 points to limit.

Constituent: Sulfate Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Exceeds Limit: BGWC-12, BGWC-16, BGWC-20, BGWC-22, BGWC-23, BGWC-24, BGWC-7

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=14.51, Std. Dev.=3.233, n=56. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9569, critical = 0.942. Kappa = 2.153 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004426. Comparing 17 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:23 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-16	BGWC-17	BGWC-12	BGWC-10	BGWC-8	BGWC-18	BGWC-19
6/6/2016	<0.04	0.55							
6/7/2016			1.7	1.5	1.1	0.37	0.02		
6/8/2016								1.2	0.49
6/9/2016									
8/9/2016	0.0336 (J)								
8/10/2016							0.117		
8/11/2016		0.612	1.37	1.41					
8/12/2016					0.867			0.895	0.647
8/15/2016									
8/16/2016						0.525			
8/18/2016									
8/22/2016									
10/3/2016	0.0226 (J)								
10/4/2016							0.177		
10/5/2016		0.659							
10/6/2016					0.863				
10/7/2016			1.49	1.76		0.492		1.33	0.868
10/10/2016									
11/29/2016	0.0085 (J)								
12/1/2016									
12/2/2016							0.0668		
12/5/2016		0.71			0.879				
12/6/2016			1.65	1.79		0.515		1.5	
12/7/2016									0.51
12/8/2016									
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	<0.04								
2/14/2017							0.122		
2/15/2017		0.707			0.886				
2/16/2017			1.73	1.63		0.482		0.753	0.68
2/17/2017									
2/20/2017									
3/27/2017									
4/13/2017	0.0084 (J)								
4/14/2017							0.054		
4/17/2017		0.675							
4/18/2017			1.77		0.941	0.515			
4/19/2017				1.47				0.762	0.701
4/20/2017									
5/22/2017									
5/25/2017	0.01 (J)								
5/26/2017		0.711					0.0817		
5/30/2017			1.52	1.7					
6/1/2017								0.663	0.383
6/2/2017					1.02	0.513			
6/5/2017									
7/7/2017	0.009 (J)								
7/10/2017							0.0534		
7/11/2017		0.633							
7/12/2017						0.508			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWC-14A BGWA-47D (bg) BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
4/1/2019				
4/2/2019				
4/3/2019	0.66 (o)			
4/4/2019				
5/2/2019				
7/9/2019	0.027 (J)			
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	0.033 (J)			
9/30/2019				
2/19/2020				
2/21/2020	0.02 (J)			
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	0.043 (J)			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		0.54	0.024 (J)	
5/25/2020				0.018 (J)
6/23/2020		0.45	0.019 (J)	0.015 (J)
7/28/2020		0.97	0.03 (J)	0.024 (J)
9/2/2020		1.1	0.022 (J)	
9/3/2020				0.022 (J)
9/23/2020				
9/24/2020				
9/25/2020	0.02 (J)			
9/28/2020				
10/1/2020		1.2	0.025 (J)	0.027 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
11/10/2020		1.1	0.025 (J)	0.032 (J)
12/15/2020		1.2	0.031 (J)	0.034 (J)
1/20/2021		1.1	0.022 (J)	0.034 (J)
3/23/2021				
3/24/2021		0.6		
3/25/2021			0.017 (J)	0.026 (J)
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	0.0069 (J)			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-16	BGWC-17	BGWC-12	BGWC-10	BGWC-8	BGWC-18	BGWC-19
6/6/2016	39	66							
6/7/2016			120	65	90	50	7.9		
6/8/2016								76	55
6/9/2016									
8/9/2016	32.2								
8/10/2016							36.8		
8/11/2016		65.2	111	61					
8/12/2016					76.6			61.7	61.2
8/15/2016									
8/16/2016						49.2			
8/18/2016									
8/22/2016									
10/3/2016	34.1								
10/4/2016							39.7		
10/5/2016		66.7							
10/6/2016					78.7				
10/7/2016			103	71		52.6		84.7	70.2
10/10/2016									
11/29/2016	29.7								
12/1/2016									
12/2/2016							37.8		
12/5/2016		74.6			80.9				
12/6/2016			117	68.7		55.4		88.1	
12/7/2016									48.6
12/8/2016									
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	31.2								
2/14/2017							35.2		
2/15/2017		74.6			90.7				
2/16/2017			124	65.5		53.2		53.7	64.7
2/17/2017									
2/20/2017									
3/27/2017									
4/13/2017	30.5								
4/14/2017							37.5		
4/17/2017		65.6							
4/18/2017			120		94.8	58			
4/19/2017				68.9				57.1	69.5
4/20/2017									
5/22/2017									
5/25/2017	33.8								
5/26/2017		70.4					41.7		
5/30/2017			111	72.6					
6/1/2017								44.8	50.8
6/2/2017					108	55.8			
6/5/2017									
7/7/2017	33.1								
7/10/2017							39		
7/11/2017		66.9							
7/12/2017						58.1			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWC-14A BGWA-47D (bg) BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
4/1/2019				
4/2/2019				
4/3/2019	44.9			
4/4/2019				
5/2/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	41.2			
9/30/2019				
2/19/2020				
2/21/2020	50.1			
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	52.2			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		73.4	74	
5/25/2020				36.5
6/23/2020		80.1	99.5	39.4
7/28/2020		140	96.2	40.3
9/2/2020		159	109	
9/3/2020				51.8
9/23/2020				
9/24/2020				
9/25/2020	51.8			
9/28/2020				
10/1/2020		162	107	61.9
11/10/2020		170	117	80.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
12/15/2020		169	110	70.3
1/20/2021		157	111	67.5
3/23/2021				
3/24/2021		91.9		
3/25/2021			109	68.3
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	49.5			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-8	BGWC-17	BGWC-16	BGWC-12	BGWC-10	BGWC-7	BGWC-25
6/6/2016	2.9	27							
6/7/2016			2	26	37	44	19		
6/8/2016								11	6.4
6/9/2016									
8/9/2016	2.5								
8/10/2016			2.1						
8/11/2016		30		34	41			11	
8/12/2016						43			
8/15/2016									4.3
8/16/2016							20		
8/18/2016									
8/22/2016									
10/3/2016	2.5								
10/4/2016			2.3						
10/5/2016		36							
10/6/2016						41		11	
10/7/2016				38	44		21		
10/10/2016									3.5
11/29/2016	2.6								
12/1/2016									
12/2/2016			2.1						
12/5/2016		40				41			
12/6/2016				45	48		22	11	
12/7/2016									
12/8/2016									2.8
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	2.1								
2/14/2017			2						
2/15/2017		38				39		12	
2/16/2017				40	46		22		
2/17/2017									
2/20/2017									4.2
3/27/2017									
4/13/2017	2.1								
4/14/2017			1.7						
4/17/2017		35							
4/18/2017					41	39	21	12	
4/19/2017				38					
4/20/2017									4.1
5/22/2017									
5/25/2017	2.4								
5/26/2017		35	1.6						
5/30/2017				41	38				
6/1/2017									4.4
6/2/2017						37	20	11	
6/5/2017									
7/7/2017	1.9								
7/10/2017			1.5						
7/11/2017		33							
7/12/2017							23		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWA-47D (bg) BGWC-14A BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
4/1/2019				
4/2/2019				
4/3/2019	5.2			
4/4/2019				
5/2/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	394 (o)			
9/30/2019				
2/19/2020				
2/21/2020	2.6			
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	4			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		6.6	32	
5/25/2020				4
6/23/2020		5.9	15.7	5.5
7/28/2020		5.9	20.6	4.6
9/2/2020		6	18.9	
9/3/2020				6.3
9/23/2020				
9/24/2020				
9/25/2020	3.3			
9/28/2020				
10/1/2020		6	18.6	7.5
11/10/2020		5.5	19.6	7.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
12/15/2020		6.3	20.7	8
1/20/2021		5.7	21.9	7.2
3/23/2021				
3/24/2021			14.1	
3/25/2021		5.7		7.5
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	2.9			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-8	BGWC-17	BGWC-16	BGWC-12	BGWC-10	BGWC-7	BGWC-25
6/6/2016	0.11 (J)	0.12 (J)							
6/7/2016			<0.1	0.15 (J)	<0.1	<0.1	0.09 (J)		
6/8/2016								0.19 (J)	0.14 (J)
6/9/2016									
8/9/2016	0.09 (J)								
8/10/2016			0.07 (J)						
8/11/2016		0.27 (J)		0.3 (J)	0.12 (J)			0.15 (J)	
8/12/2016						0.08 (J)			
8/15/2016									0.08 (J)
8/16/2016							0.09 (J)		
8/18/2016									
8/22/2016									
10/3/2016	0.11 (J)								
10/4/2016			0.07 (J)						
10/5/2016		0.12 (J)							
10/6/2016						0.06 (J)		0.17 (J)	
10/7/2016				0.14 (J)	0.08 (J)		0.17 (J)		
10/10/2016									0.1 (J)
11/29/2016	0.11 (J)								
12/1/2016									
12/2/2016			0.09 (J)						
12/5/2016		0.26 (J)				0.12 (J)			
12/6/2016				0.19 (J)	0.24 (J)		0.16 (J)	0.22 (J)	
12/7/2016									
12/8/2016									0.06 (J)
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	0.12 (J)								
2/14/2017			0.02 (J)						
2/15/2017		0.46				0.33		0.18 (J)	
2/16/2017				0.51	0.31		0.38		
2/17/2017									
2/20/2017									0.16 (J)
3/27/2017									
4/13/2017	0.1 (J)								
4/14/2017			0.02 (J)						
4/17/2017		0.14 (J)							
4/18/2017					0.02 (J)	0.006 (J)	0.12 (J)	0.11 (J)	
4/19/2017				0.18 (J)					
4/20/2017									0.02 (J)
5/22/2017									
5/25/2017	0.08 (J)								
5/26/2017		0.13 (J)	0.02 (J)						
5/30/2017				0.15 (J)	0.51				
6/1/2017									0.04 (J)
6/2/2017						0.04 (J)	0.03 (J)	0.07 (J)	
6/5/2017									
7/7/2017	0.13 (J)								
7/10/2017			0.03 (J)						
7/11/2017		0.2 (J)							
7/12/2017							0.15 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWA-47D (bg) BGWC-14A BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
3/26/2018				
3/27/2018				
3/28/2018				
3/29/2018				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
2/25/2019				
2/27/2019				
2/28/2019				
3/1/2019				
4/1/2019				
4/2/2019				
4/3/2019	0.085 (J)			
4/4/2019				
5/2/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	0.33			
9/30/2019				
2/18/2020				
2/19/2020				
2/20/2020				
2/21/2020	0.059 (J)			
2/24/2020				
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	0.061 (J)			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		0.054 (J)	0.065 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
5/25/2020				0.19 (J)
6/23/2020		<0.1	<0.1	0.19
7/28/2020		<0.1	<0.1	0.57
9/2/2020		<0.1	0.061 (J)	
9/3/2020				0.11
9/23/2020				
9/24/2020				
9/25/2020	0.068 (J)			
9/28/2020				
10/1/2020		<0.1	<0.1	0.063 (J)
11/10/2020		<0.1	<0.1	<0.1
12/15/2020		<0.1	0.052	<0.1
1/20/2021		<0.1	<0.1	<0.1
2/16/2021				
2/17/2021		<0.1		<0.1
2/18/2021			0.055 (J)	
2/19/2021	0.062 (J)			
2/23/2021				
3/8/2021				
3/23/2021				
3/24/2021			<0.1	
3/25/2021		<0.1		<0.1
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	0.06 (J)			

Prediction Limit

Constituent: pH (s.u.) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-12	BGWC-10	BGWC-17	BGWC-16	BGWC-8	BGWC-21	BGWC-22
6/6/2016	7.69	7.46							
6/7/2016			7.56	7.49	7.41	6.99	7.55		
6/8/2016								7.88	7.1
6/9/2016									
8/9/2016	7.72								
8/10/2016							7.66		
8/11/2016		7.51			7.39	6.93			
8/12/2016			7.47						
8/15/2016				7.51					
8/18/2016								7.86	7.1
8/22/2016									
10/3/2016	7.74								
10/4/2016									
10/5/2016		7.37					7.37		
10/6/2016			7.26	7.58					
10/7/2016					7.33	6.79			
10/10/2016								7.96	6.77
11/29/2016	7.74								
12/1/2016									
12/2/2016							7.67		
12/5/2016		7.42	7.58						
12/6/2016				7.44	7.4	6.95			
12/7/2016									
12/8/2016								7.82	6.94
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	7.63								
2/14/2017							7.54		
2/15/2017		7.32	7.32						
2/16/2017				7.21	7.21	6.8			
2/17/2017								7.56	7.02
2/20/2017									
3/27/2017									
4/13/2017	7.57								
4/14/2017							7.63		
4/17/2017		7.23							
4/18/2017			7.31	7.39		6.9			
4/19/2017					7.06			7.42	
4/20/2017									6.95
5/22/2017									
5/25/2017	7.84								
5/26/2017		7.29					7.76		
5/30/2017					7.51	6.99			
6/1/2017								7.61	
6/2/2017			7.36	7.38					
6/5/2017									7.07
7/7/2017	7.82								
7/10/2017							7.7		
7/11/2017		7.34							
7/12/2017				7.37					
7/13/2017			7.24						

Prediction Limit

Constituent: pH (s.u.) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWC-20	BGWC-7	BGWC-19	BGWC-18	BGWC-25	BGWC-23	BGWC-24	BGWA-29 (bg)	BGWC-30
6/6/2016									
6/7/2016									
6/8/2016	7.45	7	6.58	6.93	7.95				
6/9/2016						7.3	6.83		
8/9/2016									
8/10/2016		7.02							
8/11/2016									
8/12/2016	7.18		6.59	6.98					
8/15/2016					7.66				
8/18/2016						7.27	6.88		
8/22/2016								7.91	
10/3/2016									
10/4/2016								7.81	
10/5/2016		6.96							
10/6/2016									
10/7/2016			6.77	6.91					
10/10/2016	6.66				7.26	7.35	6.95		
11/29/2016									
12/1/2016								8.06	
12/2/2016									
12/5/2016		7.16							
12/6/2016				7.06					
12/7/2016	7.46		6.63			7.23	6.91		
12/8/2016					7.55				
1/10/2017								7.97	
1/23/2017									7.39
2/7/2017									7.35
2/13/2017									
2/14/2017								7.89	
2/15/2017		7.05							
2/16/2017			6.55	6.62					
2/17/2017	7.17								
2/20/2017					7.45	7.17	6.71		
3/27/2017									7.46
4/13/2017									
4/14/2017								7.86	
4/17/2017		7.17							7.19
4/18/2017									
4/19/2017	7.01		6.5	6.75		7.22	6.76		
4/20/2017					7.58				
5/22/2017									7.4
5/25/2017								8.11	
5/26/2017									
5/30/2017									
6/1/2017	7.18	7.17	6.27	6.18	7.65				
6/2/2017									
6/5/2017						7.31	6.87		7.69
7/7/2017									
7/10/2017								8.12	
7/11/2017									7.29
7/12/2017									
7/13/2017		7.11							

Prediction Limit

Constituent: pH (s.u.) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWA-47D (bg) BGWC-14A BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017
7/13/2017

Prediction Limit

Constituent: pH (s.u.) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
3/26/2018				
3/27/2018				
3/28/2018				
3/29/2018				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
2/25/2019				
2/27/2019				
2/28/2019				
3/1/2019				
4/1/2019				
4/2/2019	7.67			
4/3/2019				
4/4/2019				
5/2/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	7.75			
9/30/2019				
2/18/2020				
2/19/2020				
2/20/2020				
2/21/2020	7.54			
2/24/2020				
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	7.53			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		7.15	7.2	
5/25/2020				7.45

Prediction Limit

Constituent: pH (s.u.) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
6/23/2020		7 (D)	7.41 (D)	7.46 (D)
7/28/2020		6.98	6.98	7.79
9/2/2020		6.95	6.97	
9/3/2020				7.35
9/23/2020				
9/24/2020				
9/25/2020	7.62			
9/28/2020	7.02			
10/1/2020		6.94	7.08	7.41
11/10/2020		6.89	7	7.17
12/15/2020		7.04	7.02	7.37
1/20/2021		6.83	7.12	7.31
2/16/2021				
2/17/2021		6.89		7.21
2/18/2021			7.14	
2/19/2021	7.73			
2/23/2021				
3/8/2021				
3/23/2021				
3/24/2021			7.04	
3/25/2021		6.94		7.22
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	7.75			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-8	BGWC-17	BGWC-16	BGWC-12	BGWC-10	BGWC-7	BGWC-25
6/6/2016	8	100							
6/7/2016			26	120	240	190	99		
6/8/2016								410	10
6/9/2016									
8/9/2016	6.5								
8/10/2016			29						
8/11/2016		110		110	250			460	
8/12/2016						180			
8/15/2016									10
8/16/2016							110		
8/18/2016									
8/22/2016									
10/3/2016	5.7								
10/4/2016			40						
10/5/2016		120							
10/6/2016						200		440	
10/7/2016				150	260		110		
10/10/2016									10
11/29/2016	5.2								
12/1/2016									
12/2/2016			37						
12/5/2016		130				130			
12/6/2016				130	280		110	470	
12/7/2016									
12/8/2016									13
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	6.4								
2/14/2017			45						
2/15/2017		120				190		510	
2/16/2017				120	380		110		
2/17/2017									
2/20/2017									24
3/27/2017									
4/13/2017	4.9								
4/14/2017			27						
4/17/2017		110							
4/18/2017					290	220	110	450	
4/19/2017				110					
4/20/2017									26
5/22/2017									
5/25/2017	5.7								
5/26/2017		110	34						
5/30/2017				110	260				
6/1/2017									29
6/2/2017						250	110	470	
6/5/2017									
7/7/2017	6.3								
7/10/2017			28						
7/11/2017		110							
7/12/2017							110		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWA-47D (bg) BGWC-14A BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
4/1/2019				
4/2/2019				
4/3/2019	26.2			
4/4/2019				
5/2/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	200 (o)			
9/30/2019				
2/19/2020				
2/21/2020	23.5			
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	26.1			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		53.5	92.6	
5/25/2020				43.3
6/23/2020		64.5	88.7	59.7
7/28/2020		65.7	300	15.8
9/2/2020		70.2	360	
9/3/2020				24.4
9/23/2020				
9/24/2020				
9/25/2020	22.6			
9/28/2020				
10/1/2020		70.2	382	26.6
11/10/2020		68.9	354	24.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWA-47D (bg)	BGWC-14A	BGWA-48D (bg)
12/15/2020		78	406	28.3
1/20/2021		73.4	299	26.1
3/23/2021				
3/24/2021			115	
3/25/2021		74.5		22
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	24.6			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III

Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-2 (bg)	BGWC-9	BGWC-8	BGWC-17	BGWC-16	BGWC-12	BGWC-10	BGWC-7	BGWC-25
6/6/2016	170	320							
6/7/2016			200	360	580	510	300		
6/8/2016								800	170
6/9/2016									
8/9/2016	183								
8/10/2016			228						
8/11/2016		361		340	548			852	
8/12/2016						476			
8/15/2016									161
8/16/2016							286		
8/18/2016									
8/22/2016									
10/3/2016	201								
10/4/2016			186						
10/5/2016		376							
10/6/2016						524		906	
10/7/2016				533	617		513		
10/10/2016									196
11/29/2016	109								
12/1/2016									
12/2/2016			183						
12/5/2016		426				489			
12/6/2016				413	730		421	976	
12/7/2016									
12/8/2016									209
1/10/2017									
1/23/2017									
2/7/2017									
2/13/2017	214								
2/14/2017			367						
2/15/2017		452				562		968	
2/16/2017				434	685		433		
2/17/2017									
2/20/2017									251
3/27/2017									
4/13/2017	211								
4/14/2017			184						
4/17/2017		388							
4/18/2017					621	955	349	944	
4/19/2017				415					
4/20/2017									324
5/22/2017									
5/25/2017	173								
5/26/2017		423	179						
5/30/2017				391	601				
6/1/2017									177
6/2/2017						602	313	910	
6/5/2017									
7/7/2017	165								
7/10/2017			211						
7/11/2017		387							
7/12/2017							255		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

BGWA-33 (bg) BGWC-14A BGWA-47D (bg) BGWA-48D (bg)

6/6/2016
6/7/2016
6/8/2016
6/9/2016
8/9/2016
8/10/2016
8/11/2016
8/12/2016
8/15/2016
8/16/2016
8/18/2016
8/22/2016
10/3/2016
10/4/2016
10/5/2016
10/6/2016
10/7/2016
10/10/2016
11/29/2016
12/1/2016
12/2/2016
12/5/2016
12/6/2016
12/7/2016
12/8/2016
1/10/2017
1/23/2017
2/7/2017
2/13/2017
2/14/2017
2/15/2017
2/16/2017
2/17/2017
2/20/2017
3/27/2017
4/13/2017
4/14/2017
4/17/2017
4/18/2017
4/19/2017
4/20/2017
5/22/2017
5/25/2017
5/26/2017
5/30/2017
6/1/2017
6/2/2017
6/5/2017
7/7/2017
7/10/2017
7/11/2017
7/12/2017

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
 Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
7/13/2017				
7/14/2017				
7/17/2017				
7/18/2017				
7/19/2017				
8/23/2017				
10/9/2017				
10/10/2017				
10/11/2017				
10/12/2017				
6/12/2018				
6/13/2018				
6/14/2018				
6/15/2018				
10/16/2018				
10/17/2018				
10/18/2018				
10/19/2018				
10/22/2018				
4/1/2019				
4/2/2019				
4/3/2019	235			
4/4/2019				
9/23/2019				
9/24/2019				
9/25/2019				
9/26/2019				
9/27/2019	275			
9/30/2019				
2/19/2020				
2/21/2020	229			
2/25/2020				
2/26/2020				
3/18/2020				
3/19/2020				
3/20/2020	229			
3/23/2020				
3/24/2020				
3/25/2020				
5/22/2020		454	357	
5/25/2020				249
6/23/2020		423	383	280
7/28/2020		768	410	264
9/2/2020		814	389	
9/3/2020				303
9/23/2020				
9/24/2020				
9/25/2020	233			
9/28/2020				
10/1/2020		824	384	301
11/10/2020		800	405	305
12/15/2020		876	385	289

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/17/2021 12:28 PM View: Appendix III
Plant Bowen Client: Southern Company Data: Bowen AP-1

	BGWA-33 (bg)	BGWC-14A	BGWA-47D (bg)	BGWA-48D (bg)
1/20/2021		786	377	285
3/23/2021				
3/24/2021		445		
3/25/2021			415	331
3/26/2021				
3/29/2021				
3/30/2021				
4/1/2021	183			

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BGWC-22	1.476	70	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-23	1.88	74	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-30	-5.742	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-7	-0.1547	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-9	-0.05575	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-2 (bg)	2.601	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-48D (bg)	47.88	26	25	Yes	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-12	12.25	95	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-20	16.08	76	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-22	75.86	108	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-23	81.21	94	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-29 (bg)	-0.1742	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-10	1.218	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-12	-5.67	-111	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-16	-5.211	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-22	127.4	98	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-23	118.3	92	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-30	-218.8	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-16	-0.06875	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-22	-0.06538	-121	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-24	-0.06234	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-2 (bg)	1.605	83	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-47D (bg)	18.39	27	25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-12	26.28	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-23	45.21	85	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-12	52.03	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-23	231.2	80	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-7	-57.86	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	BGWA-2 (bg)	-0.001591	-37	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-29 (bg)	0	-24	-63	No	17	52.94	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-33 (bg)	-0.01161	-6	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-47D (bg)	-0.001327	-2	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWA-48D (bg)	0.0249	23	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-10	0	0	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-12	0.037	45	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-14A	0.4014	12	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-16	-0.0824	-50	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-17	-0.09538	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-18	-0.09044	-58	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-19	-0.06128	-35	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-20	0.2345	50	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-22	1.476	70	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-23	1.88	74	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-24	2.12	43	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-25	0.004105	40	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-30	-5.742	-94	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-7	-0.1547	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	BGWC-9	-0.05575	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-2 (bg)	2.601	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-29 (bg)	-0.0148	-1	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-33 (bg)	4.655	5	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-47D (bg)	24.64	21	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWA-48D (bg)	47.88	26	25	Yes	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-12	12.25	95	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-16	4.779	40	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-20	16.08	76	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-22	75.86	108	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-23	81.21	94	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-24	74.21	42	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	BGWC-7	-0.6966	-12	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-2 (bg)	0.3246	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-29 (bg)	-0.1742	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-33 (bg)	-1.108	-4	-12	No	5	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-47D (bg)	-0.4719	-11	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWA-48D (bg)	4.306	23	25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-10	1.218	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-12	-5.67	-111	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-14A	-2.804	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-16	-5.211	-73	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-17	1.211	14	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-20	0.104	16	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-22	127.4	98	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-23	118.3	92	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-24	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	BGWC-30	-218.8	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-2 (bg)	-0.02015	-46	-87	No	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-29 (bg)	0.01591	33	81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-33 (bg)	0.01589	1	21	No	8	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-47D (bg)	-0.2246	-25	-30	No	10	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWA-48D (bg)	-0.3269	-25	-30	No	10	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-16	-0.06875	-108	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-18	-0.06731	-49	-81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-19	-0.004877	-14	-81	No	20	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-22	-0.06538	-121	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (s.u.)	BGWC-24	-0.06234	-123	-81	Yes	20	0	n/a	n/a	0.01	NP

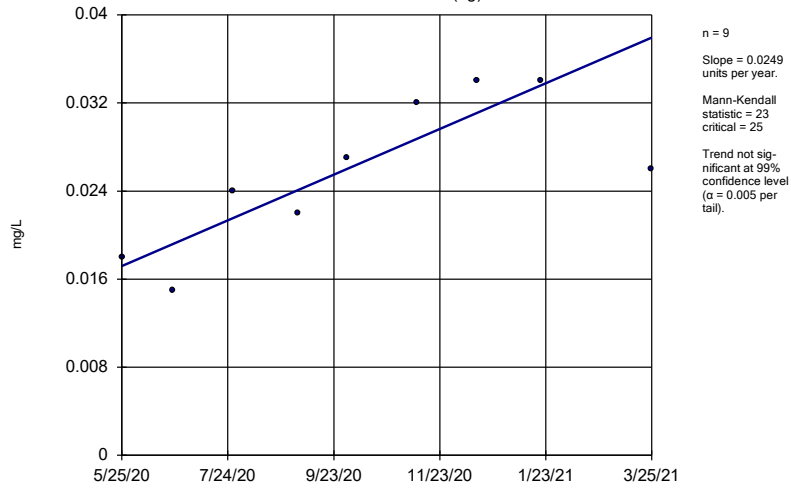
Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	BGWA-2 (bg)	1.605	83	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-29 (bg)	-0.245	-13	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-33 (bg)	-1.127	-4	-12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-47D (bg)	18.39	27	25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWA-48D (bg)	-15.95	-10	-25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-10	0	-30	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-12	26.28	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-14A	174.6	8	25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-16	12.74	55	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-17	-4.313	-27	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-20	-9.594	-26	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-22	26.43	33	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-23	45.21	85	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-24	7.21	10	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	BGWC-7	-40.85	-45	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-2 (bg)	7.48	36	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-29 (bg)	-1.622	-21	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-33 (bg)	-26.04	-8	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-47D (bg)	28.54	10	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWA-48D (bg)	65.18	18	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-12	52.03	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-16	7.303	26	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-20	14.4	19	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-22	175	47	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-23	231.2	80	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-24	-71.97	-15	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	BGWC-7	-57.86	-66	-58	Yes	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

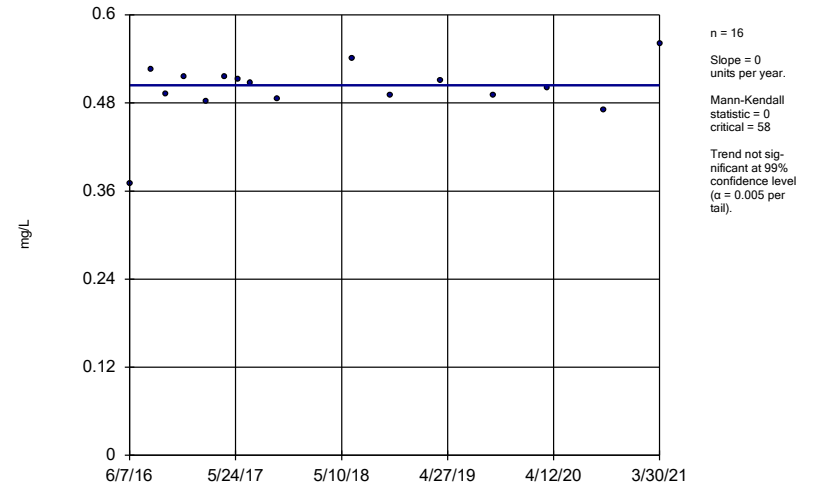
BGWA-48D (bg)



Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

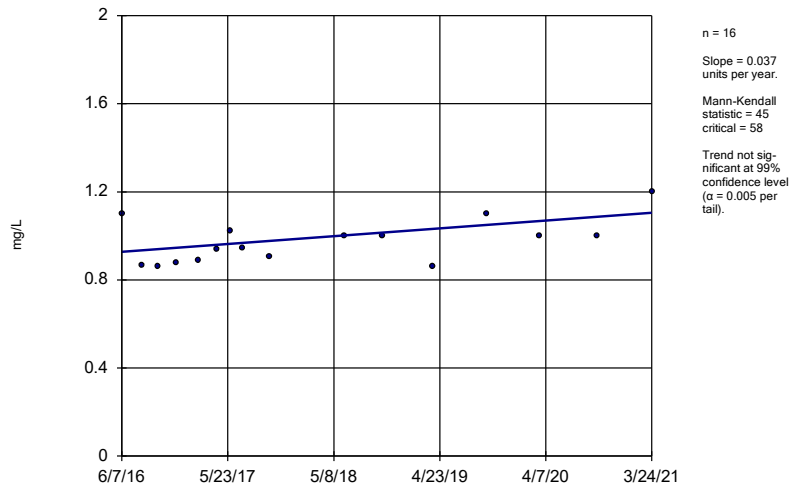
BGWC-10



Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

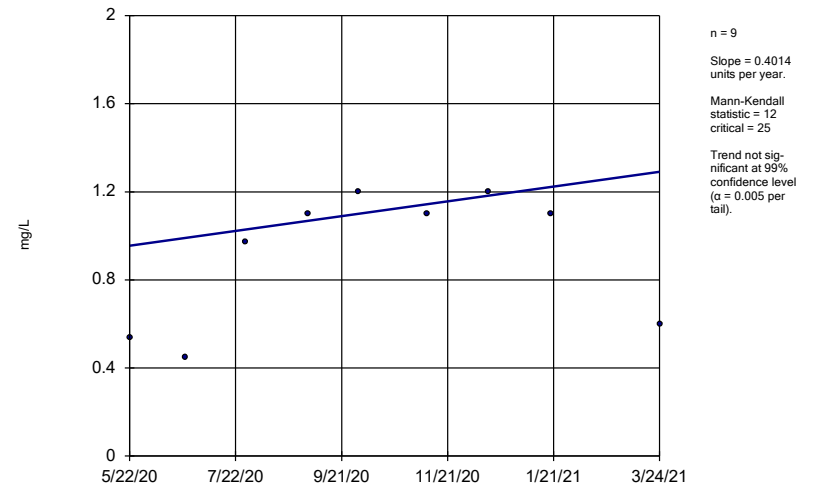
BGWC-12



Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

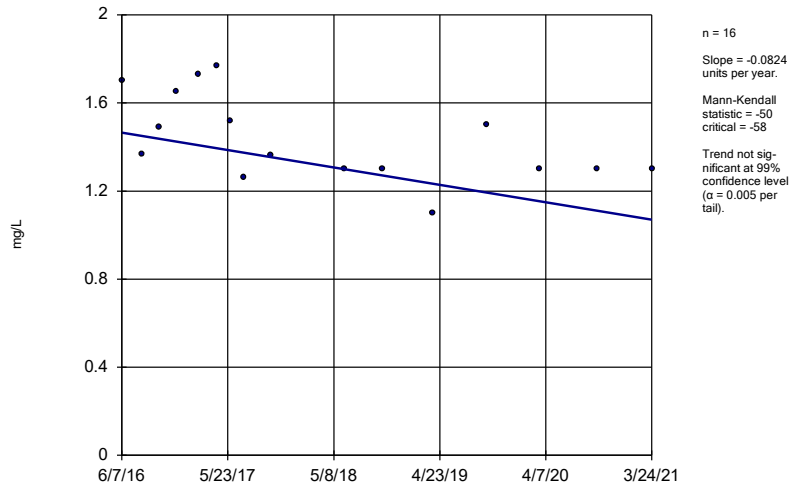
Sen's Slope Estimator

BGWC-14A



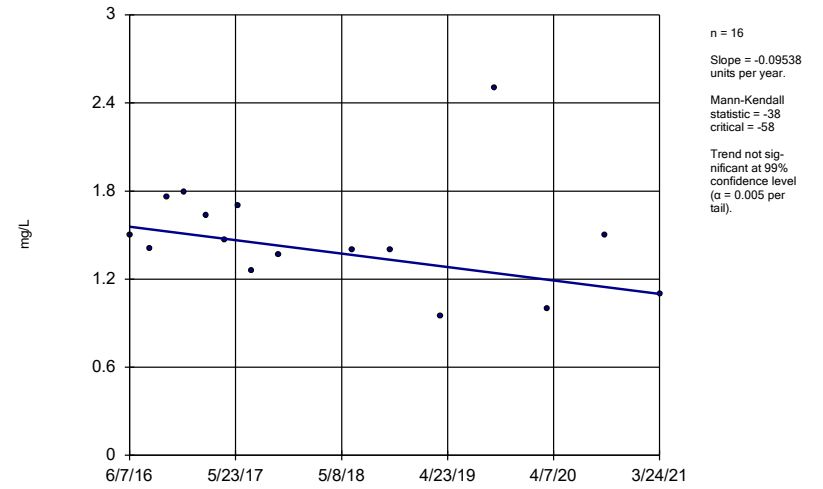
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-16



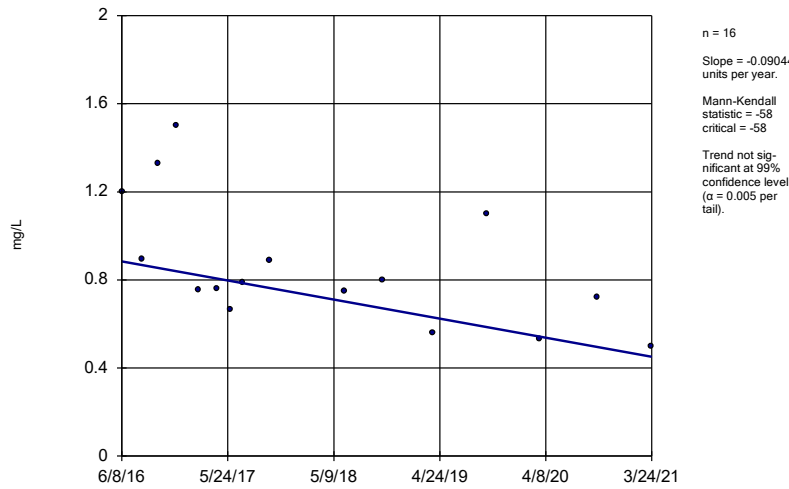
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-17



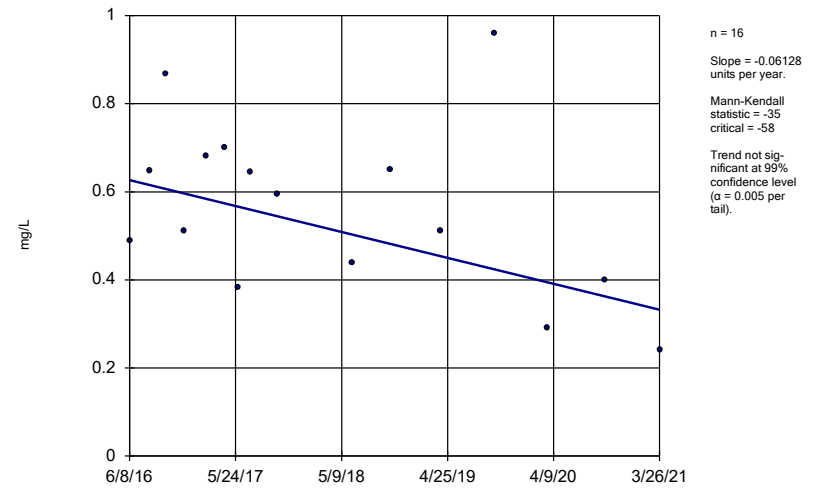
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-18



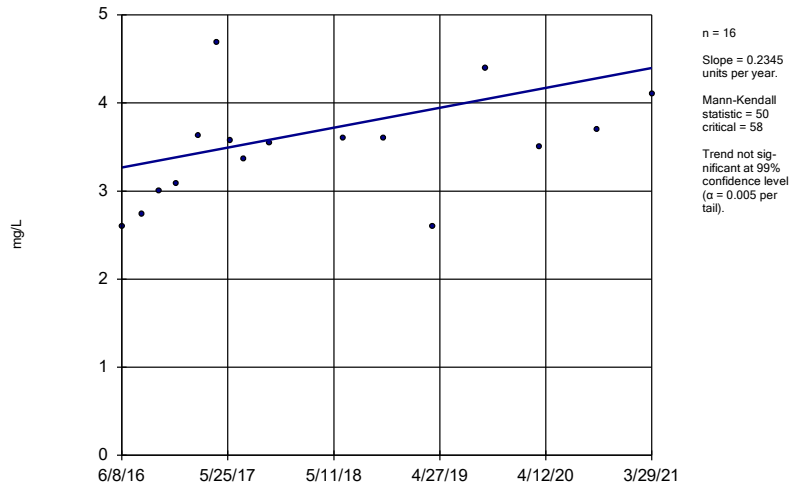
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-19



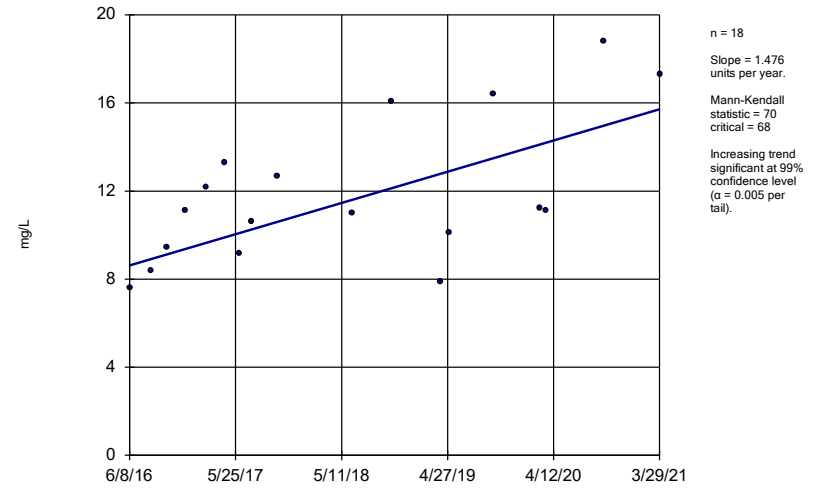
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-20



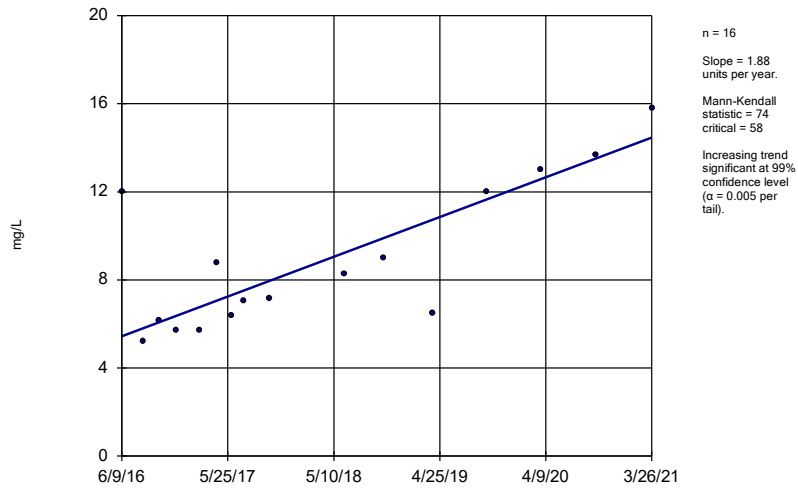
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-22



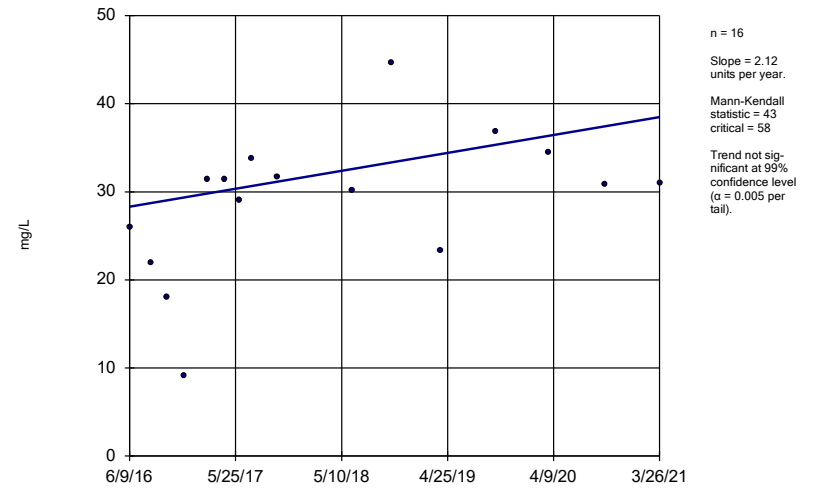
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-23



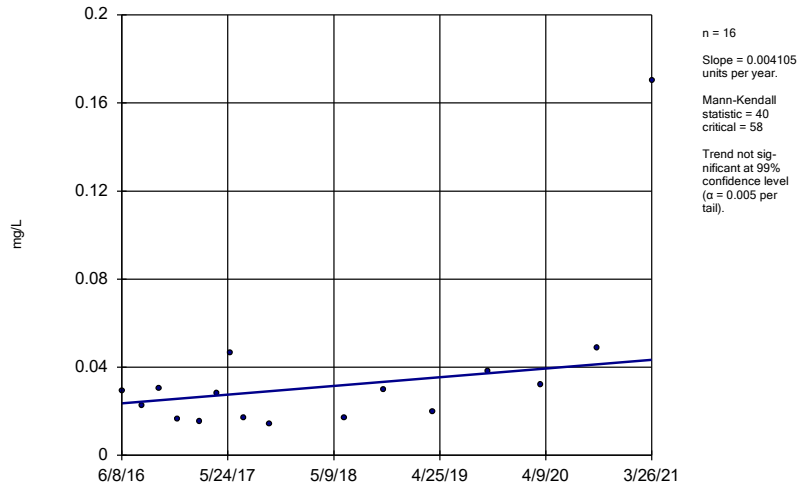
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-24



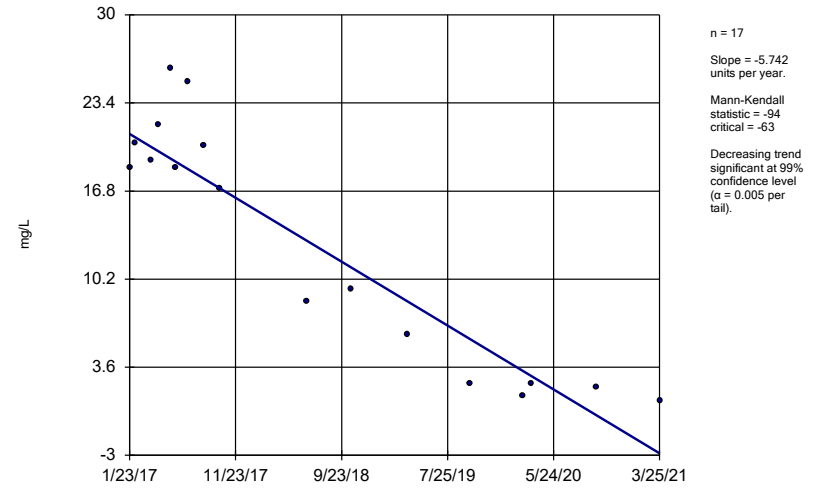
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-25



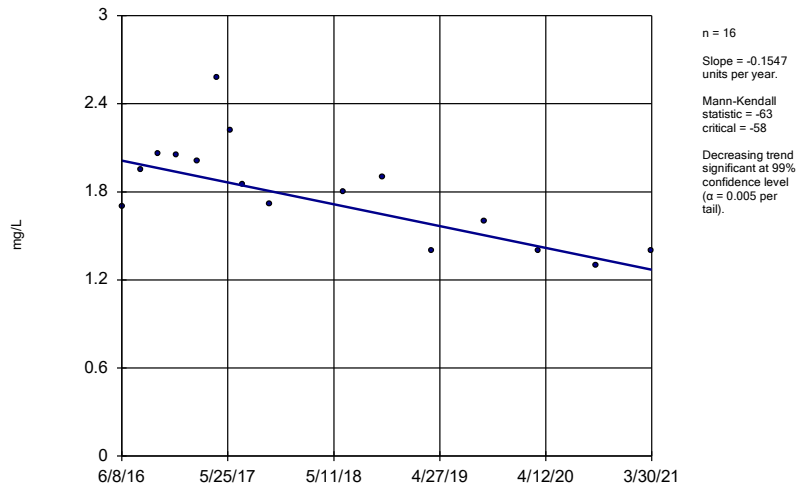
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-30



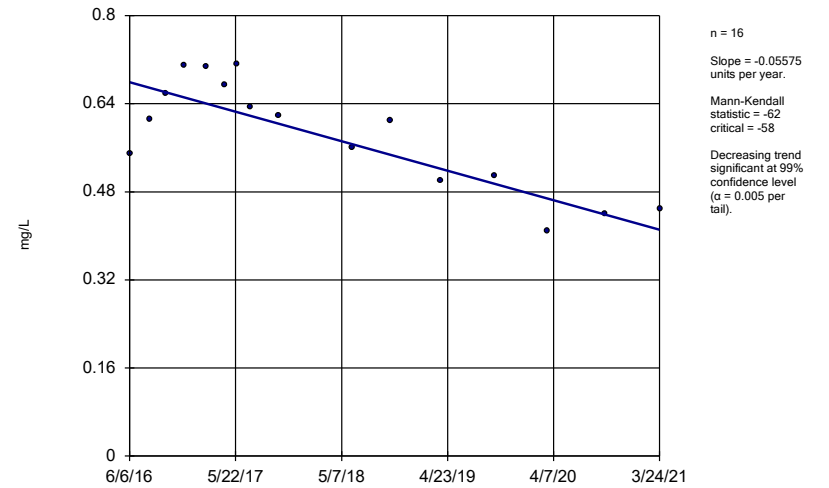
Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-7



Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

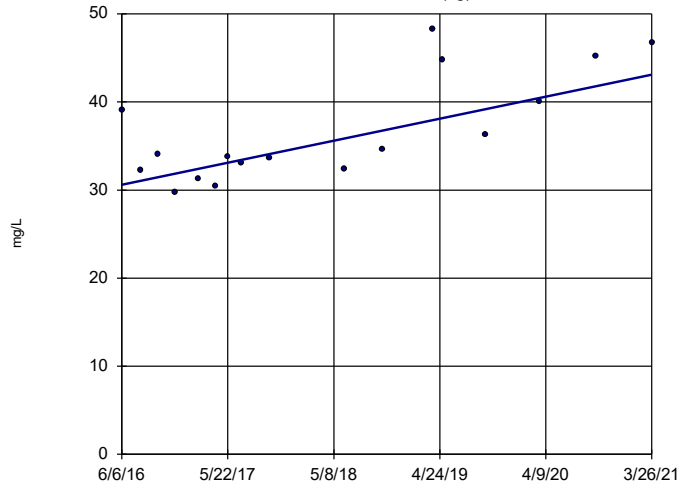
Sen's Slope Estimator
BGWC-9



Constituent: Boron Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-2 (bg)

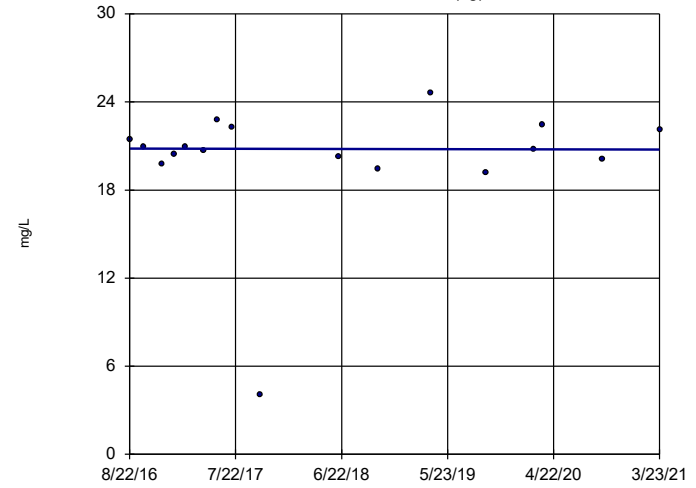


n = 17
 Slope = 2.601
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-29 (bg)

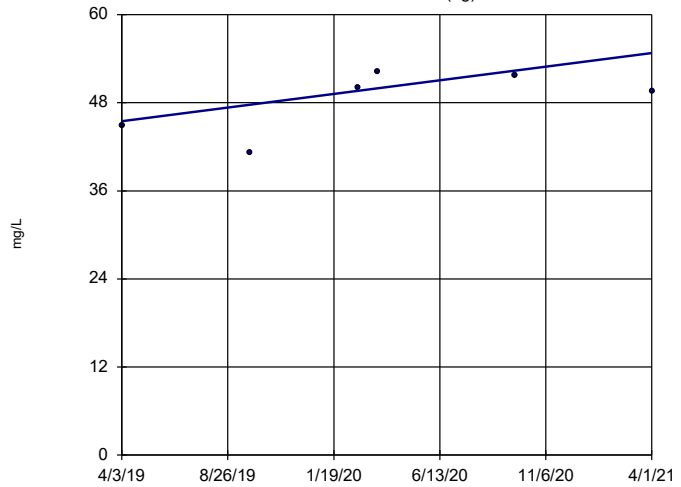


n = 17
 Slope = -0.0148
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-33 (bg)

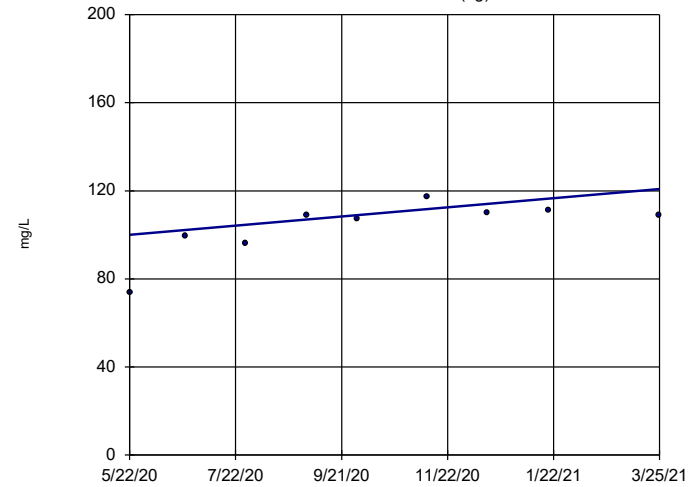


n = 6
 Slope = 4.655
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-47D (bg)

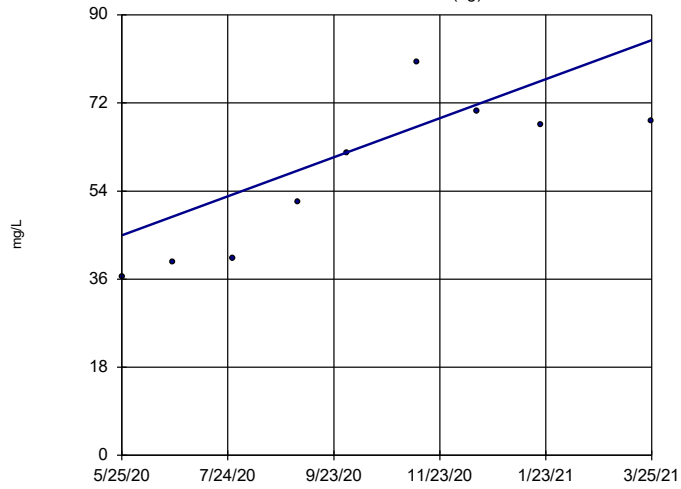


n = 9
 Slope = 24.64
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-48D (bg)

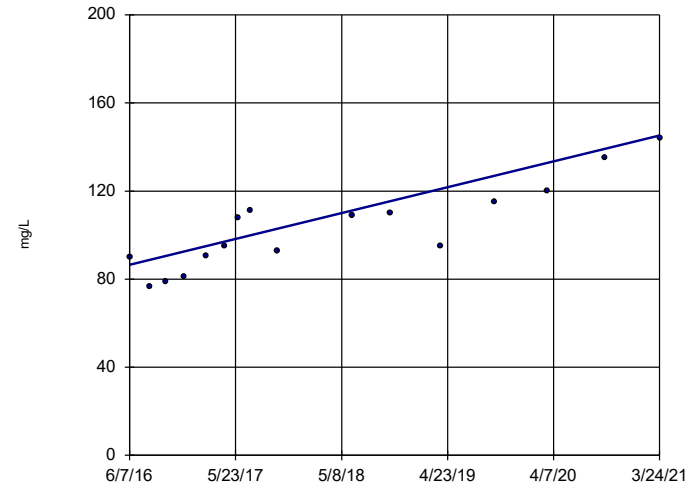


n = 9
 Slope = 47.88
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 25
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-12

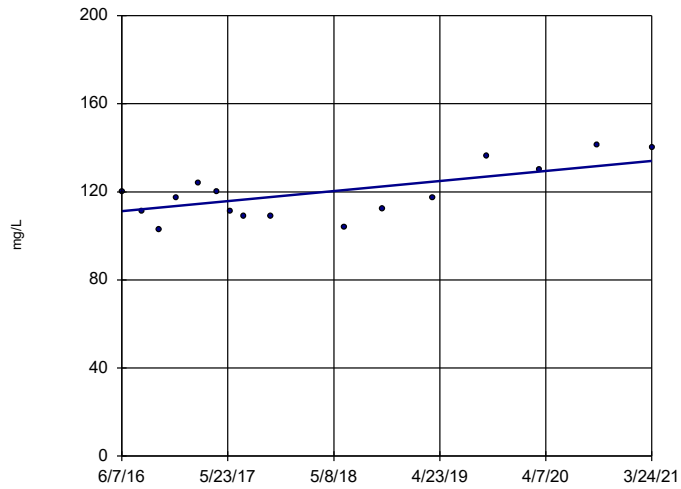


n = 16
 Slope = 12.25
 units per year.
 Mann-Kendall
 statistic = 95
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-16

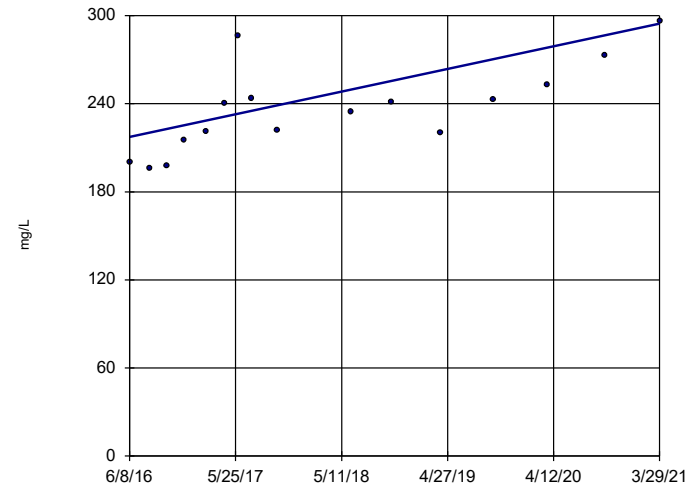


n = 16
 Slope = 4.779
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-20

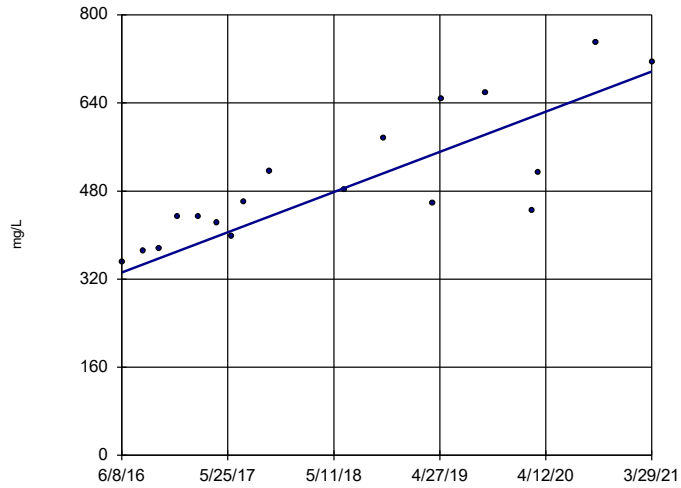


n = 16
 Slope = 16.08
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-22

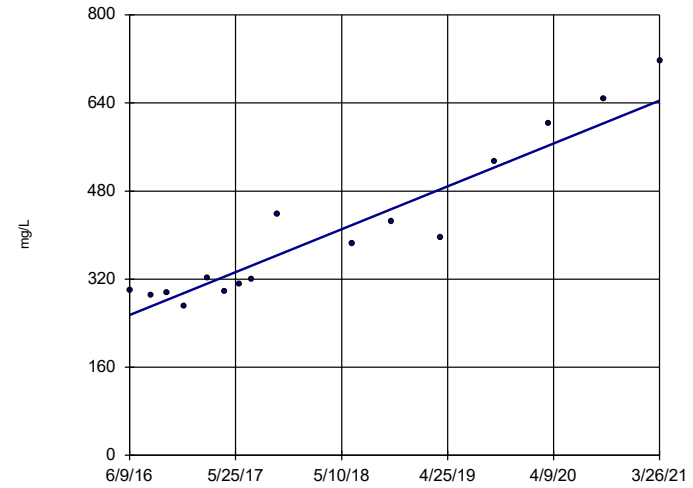


n = 18
 Slope = 75.86
 units per year.
 Mann-Kendall
 statistic = 108
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-23

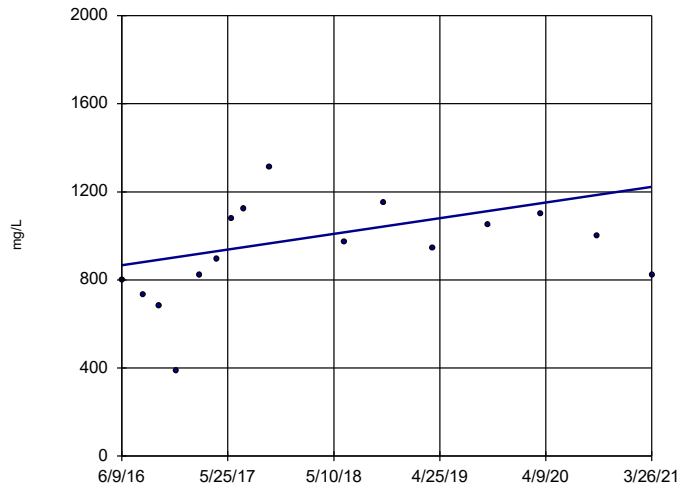


n = 16
 Slope = 81.21
 units per year.
 Mann-Kendall
 statistic = 94
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-24

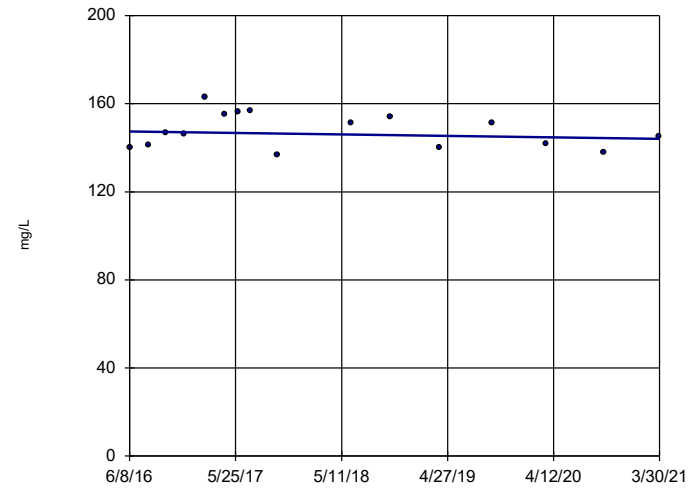


n = 16
 Slope = 74.21
 units per year.
 Mann-Kendall
 statistic = 42
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-7

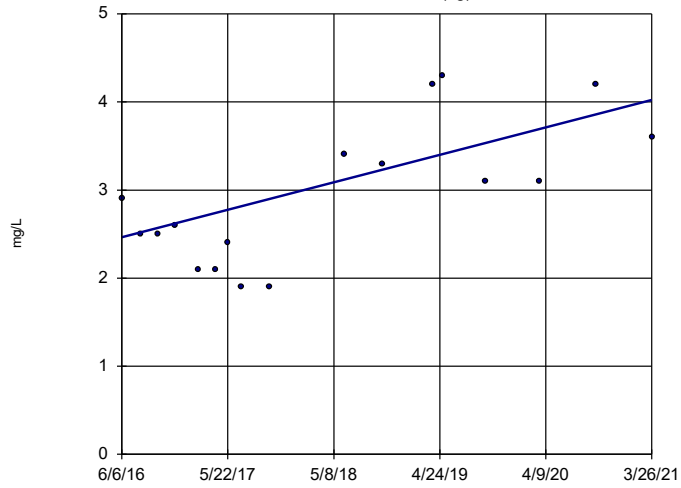


n = 16
 Slope = -0.6966
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-2 (bg)

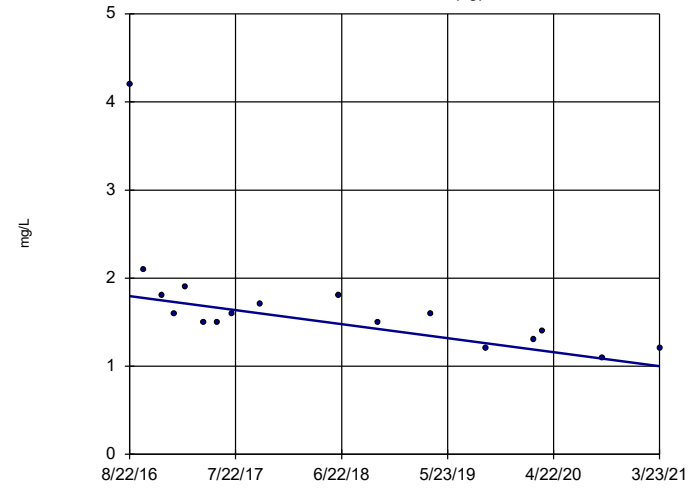


n = 17
 Slope = 0.3246 units per year.
 Mann-Kendall statistic = 47
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-29 (bg)

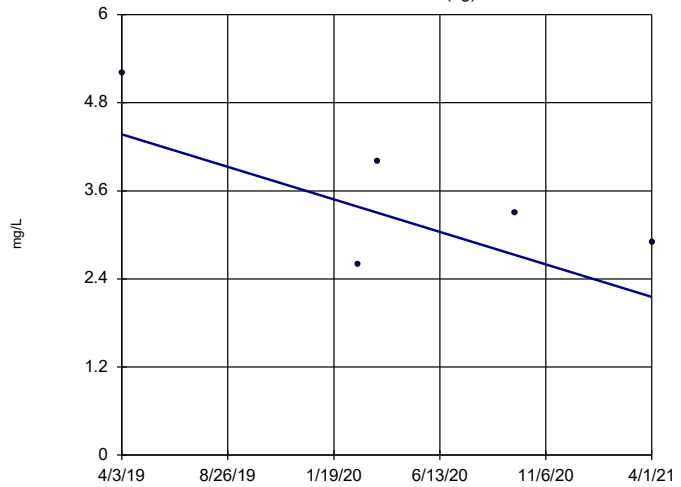


n = 17
 Slope = -0.1742 units per year.
 Mann-Kendall statistic = -88
 critical = -63
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-33 (bg)

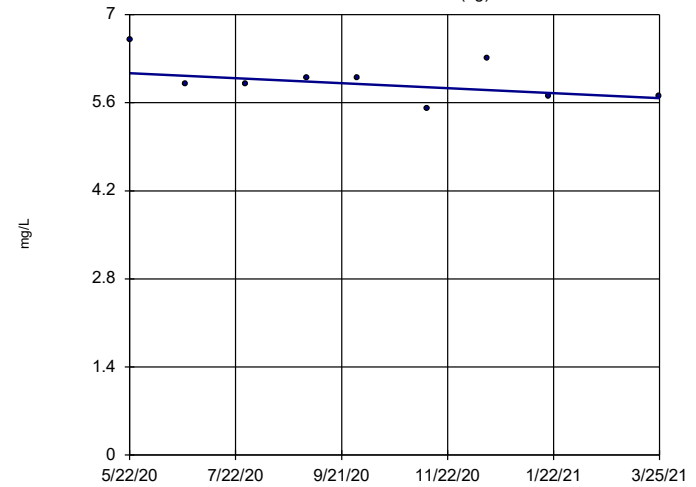


n = 5
 Slope = -1.108 units per year.
 Mann-Kendall statistic = -4
 critical = -12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

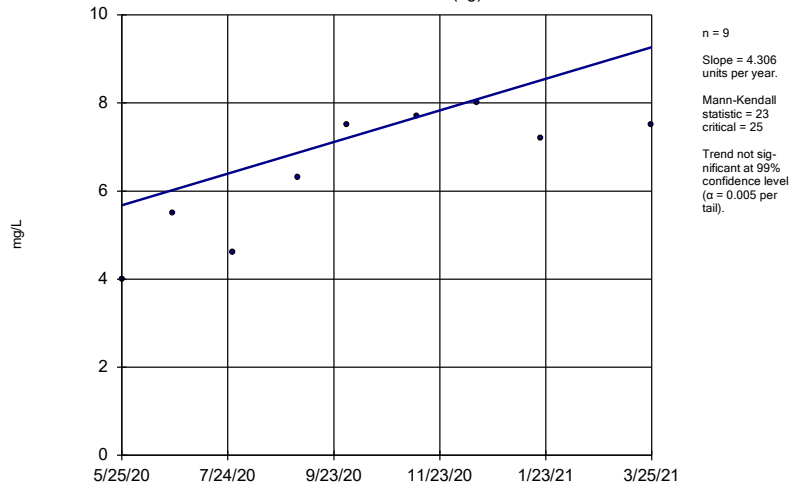
BGWA-47D (bg)



n = 9
 Slope = -0.4719 units per year.
 Mann-Kendall statistic = -11
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

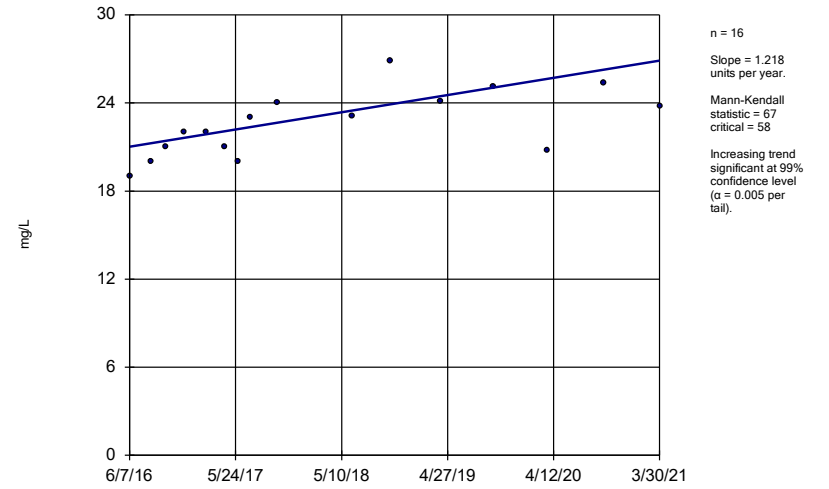
Constituent: Chloride Analysis Run 5/17/2021 12:35 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWA-48D (bg)



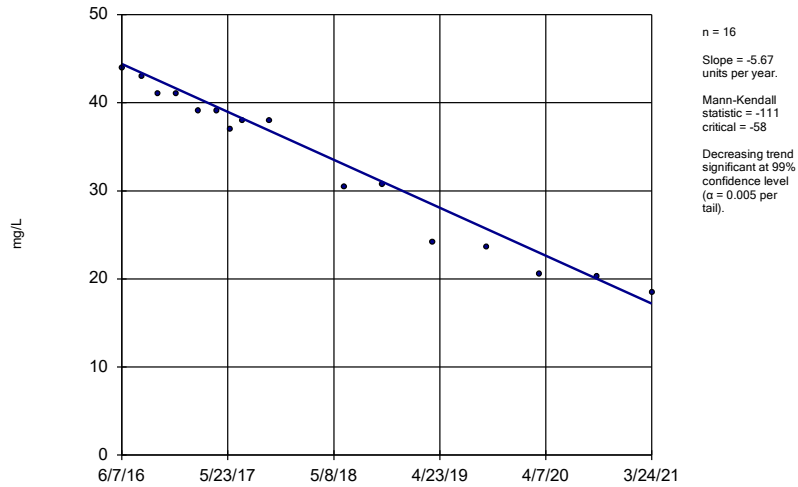
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-10



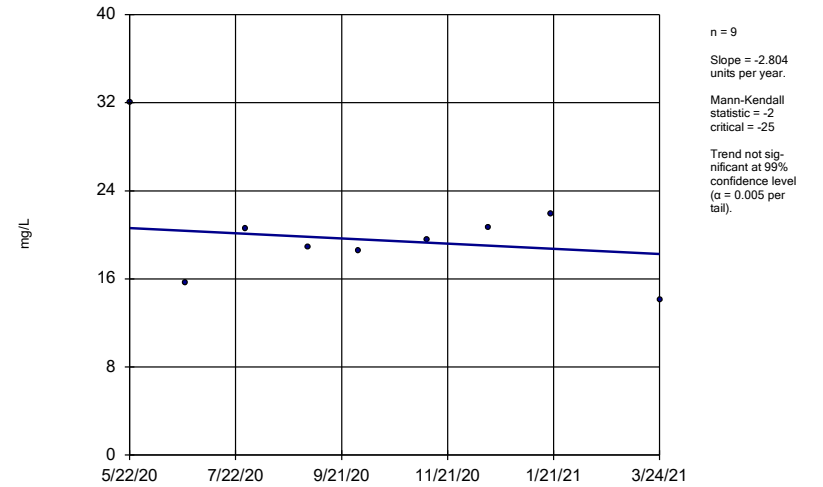
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-12



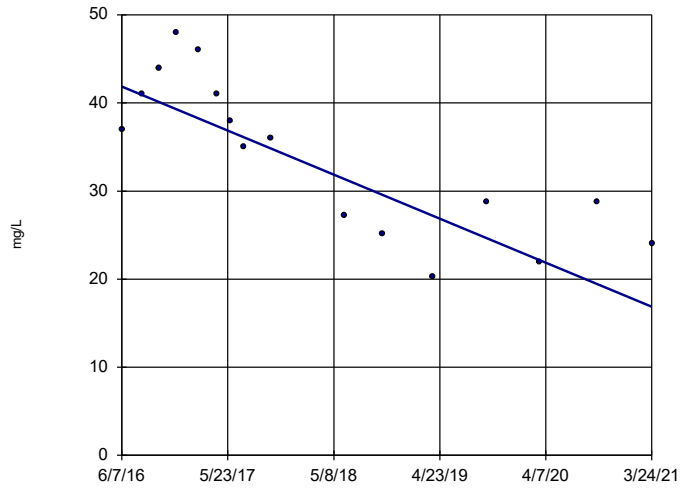
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-14A



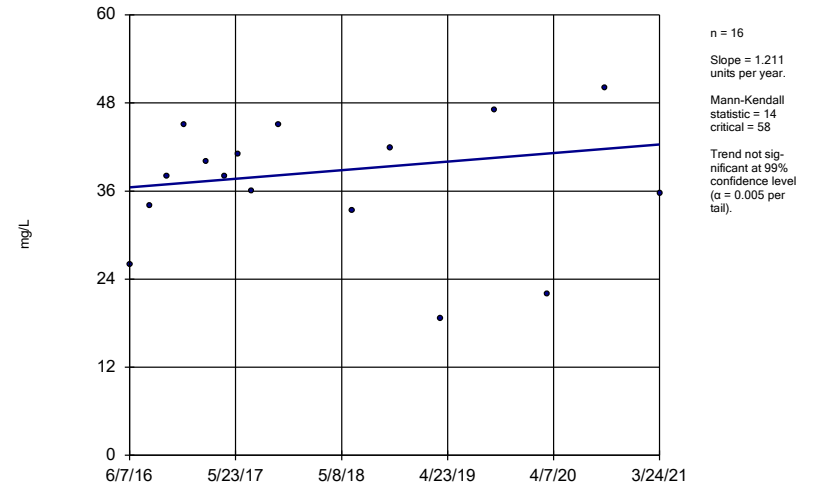
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-16



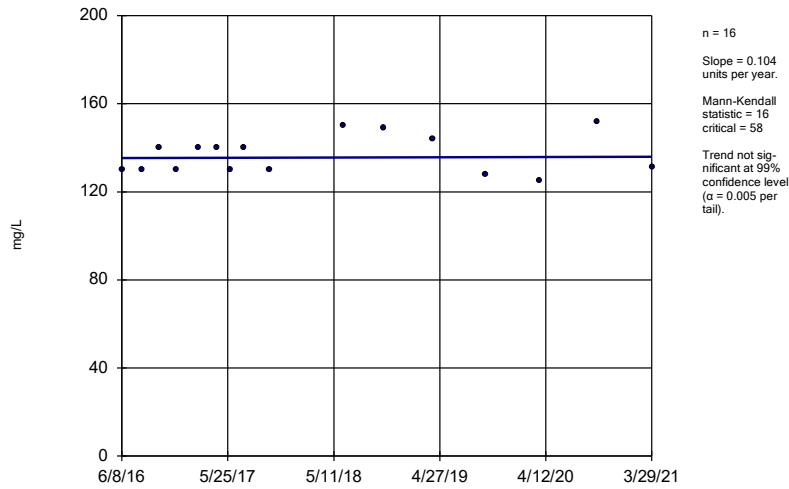
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-17



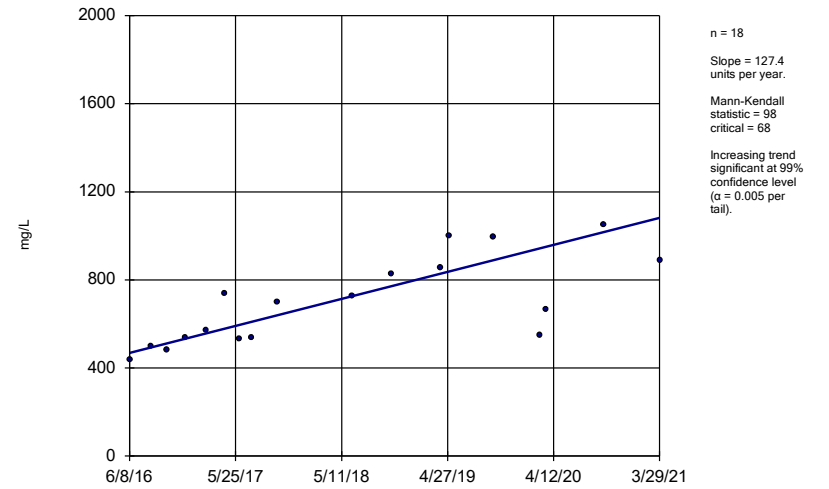
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-20



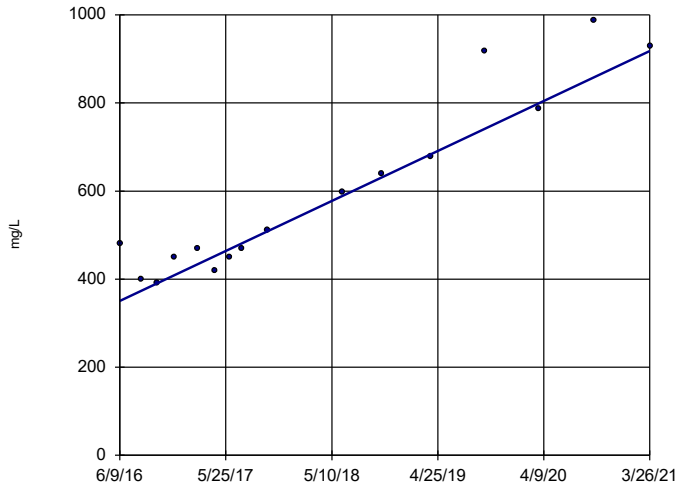
Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-22



Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

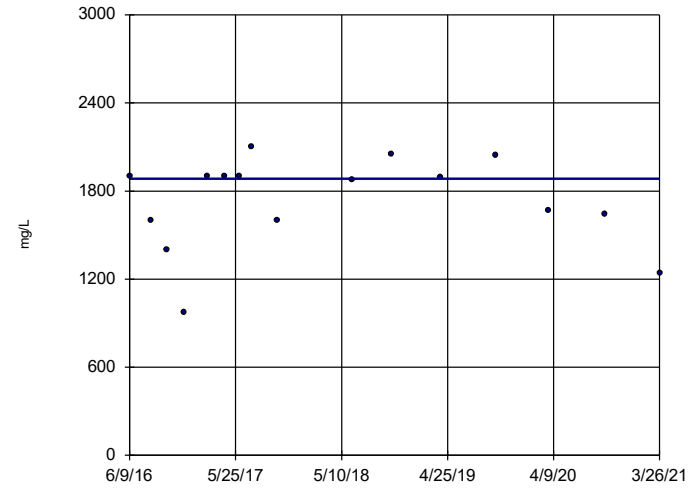
Sen's Slope Estimator
BGWC-23



n = 16
Slope = 118.3
units per year.
Mann-Kendall
statistic = 92
critical = 58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

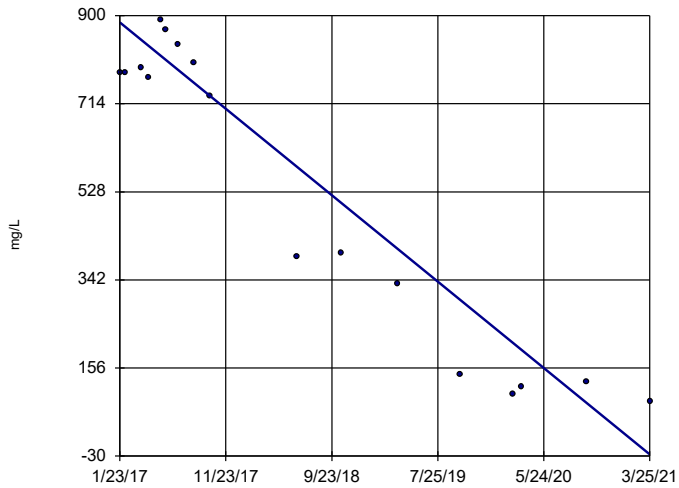
Sen's Slope Estimator
BGWC-24



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = -3
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

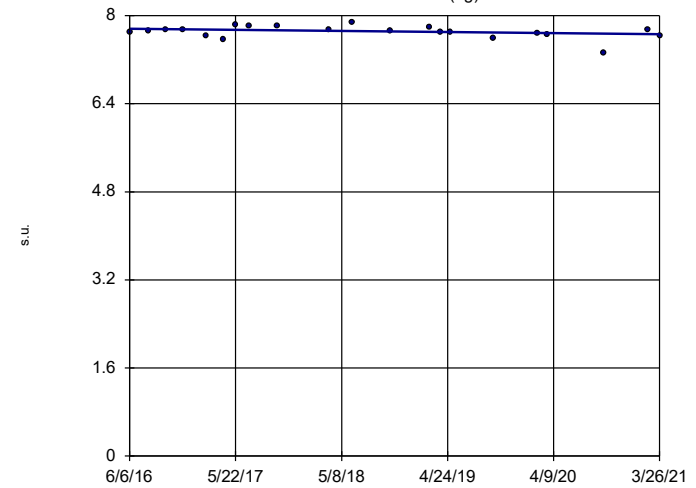
Sen's Slope Estimator
BGWC-30



n = 17
Slope = -218.8
units per year.
Mann-Kendall
statistic = -91
critical = -63
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWA-2 (bg)

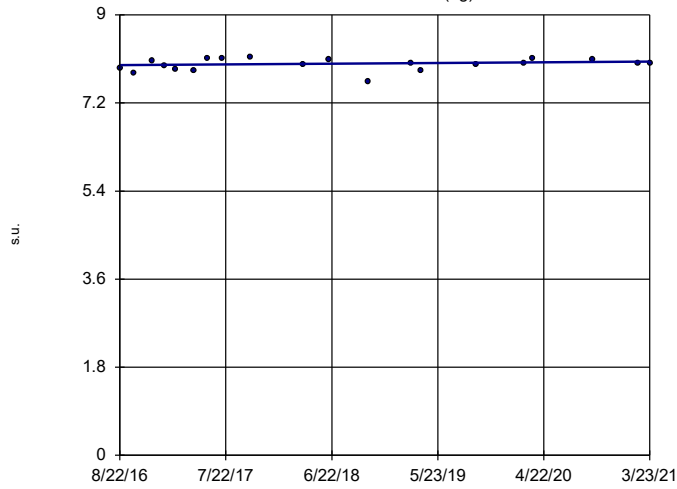


n = 21
Slope = -0.02015
units per year.
Mann-Kendall
statistic = -46
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-29 (bg)

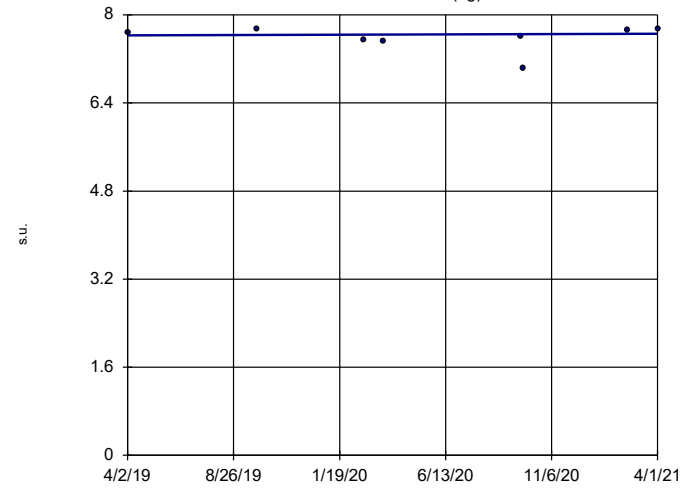


n = 20
 Slope = 0.01591 units per year.
 Mann-Kendall statistic = 33
 critical = 81
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-33 (bg)

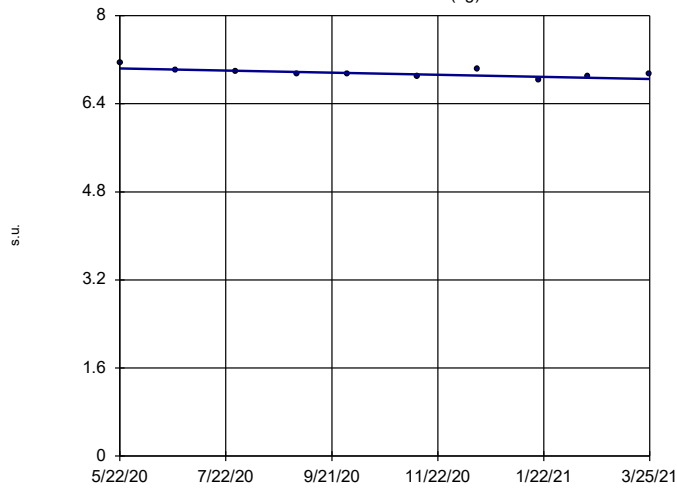


n = 8
 Slope = 0.01589 units per year.
 Mann-Kendall statistic = 1
 critical = 21
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-47D (bg)

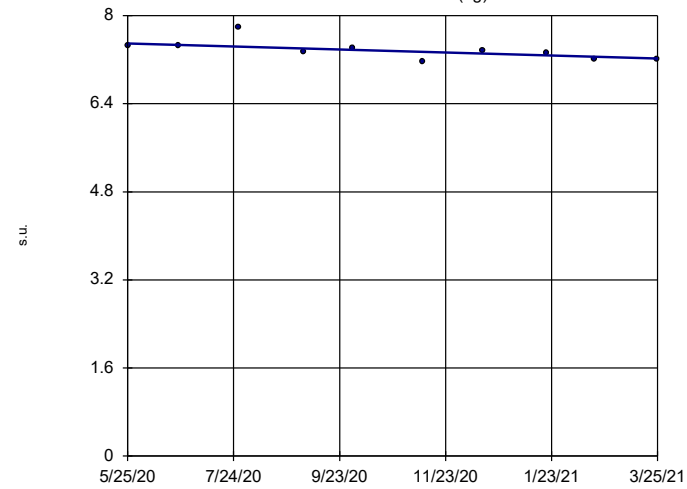


n = 10
 Slope = -0.2246 units per year.
 Mann-Kendall statistic = -25
 critical = -30
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

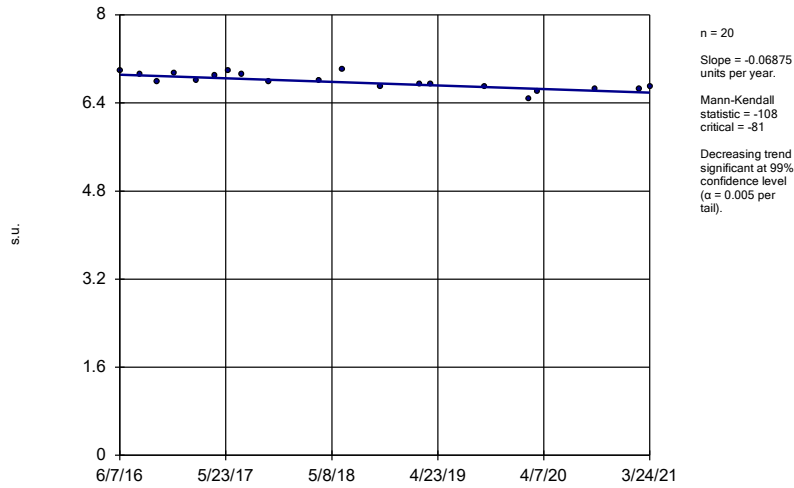
BGWA-48D (bg)



n = 10
 Slope = -0.3269 units per year.
 Mann-Kendall statistic = -25
 critical = -30
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

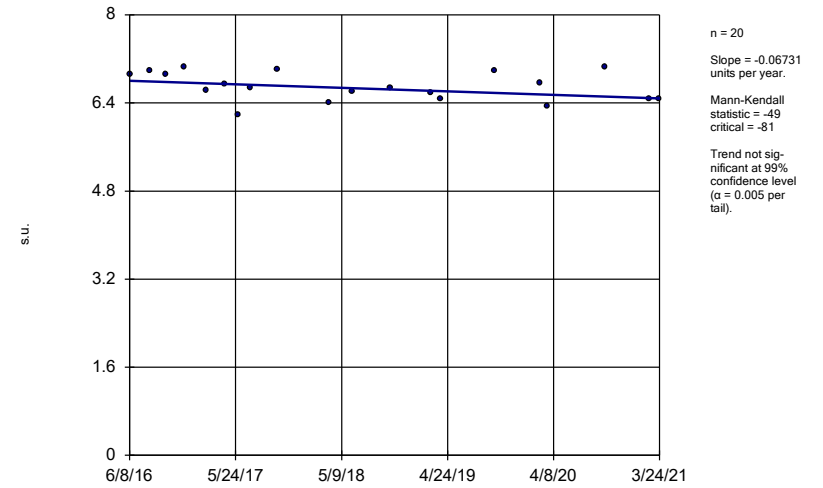
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-16



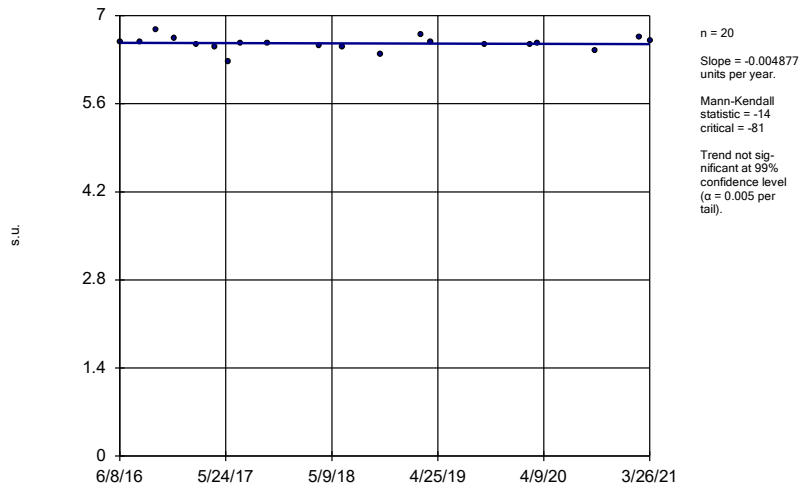
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-18



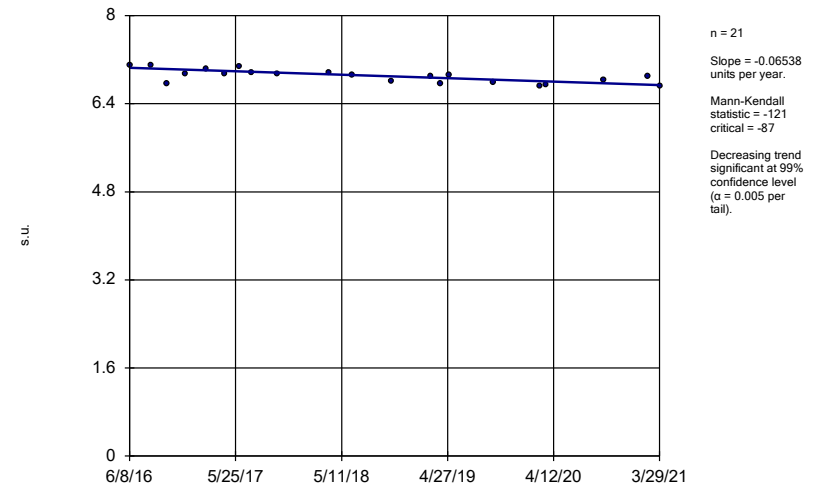
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-19



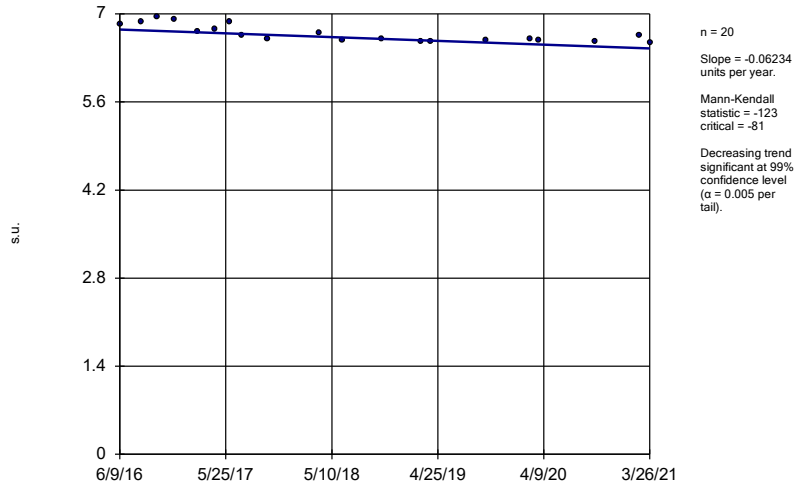
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-22



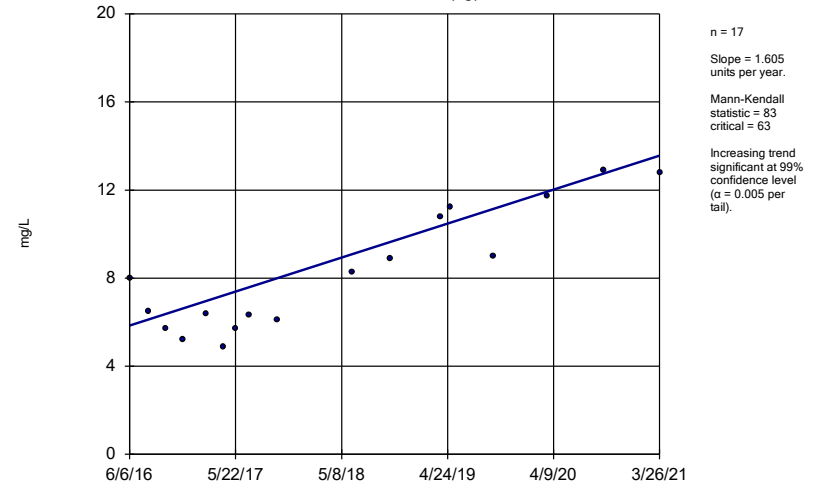
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWC-24



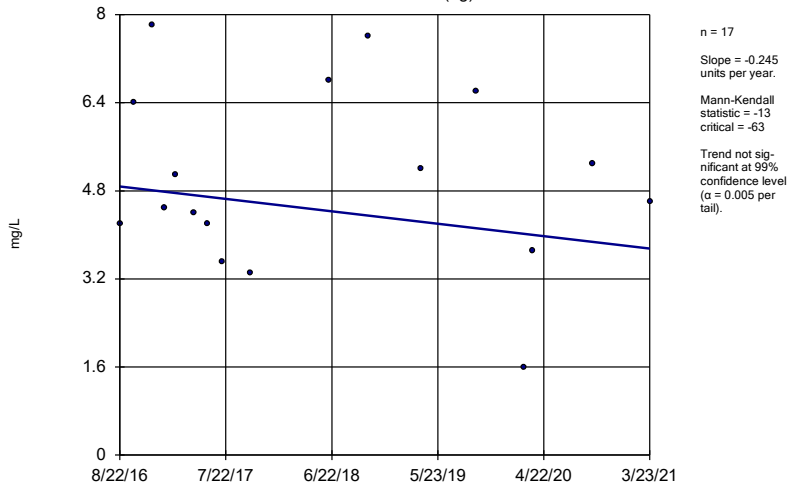
Constituent: pH Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWA-2 (bg)



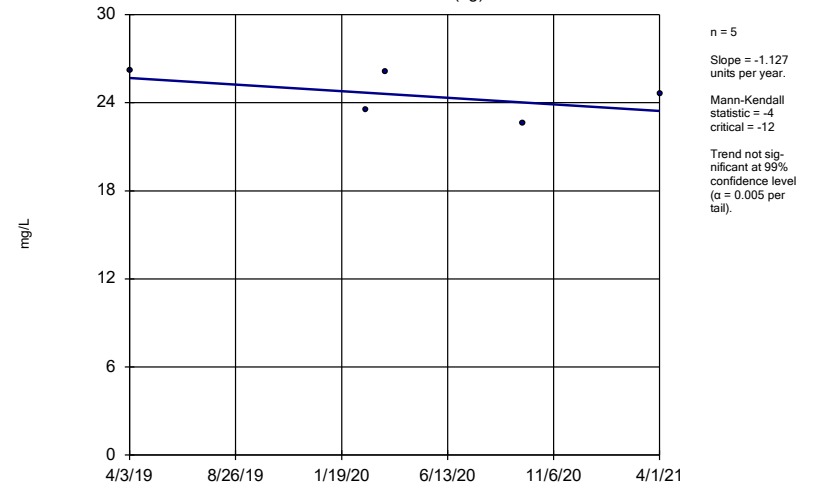
Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWA-29 (bg)



Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

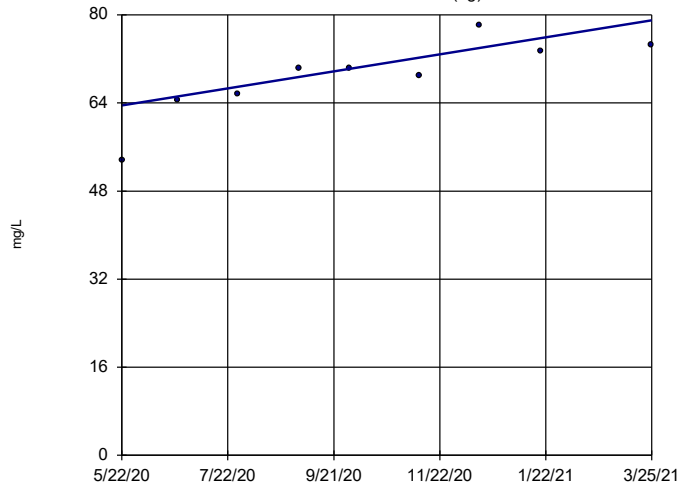
Sen's Slope Estimator BGWA-33 (bg)



Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-47D (bg)

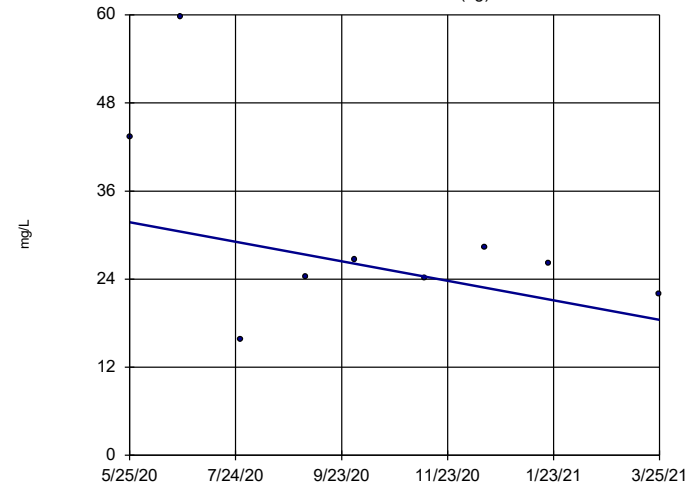


n = 9
 Slope = 18.39
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 25
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-48D (bg)

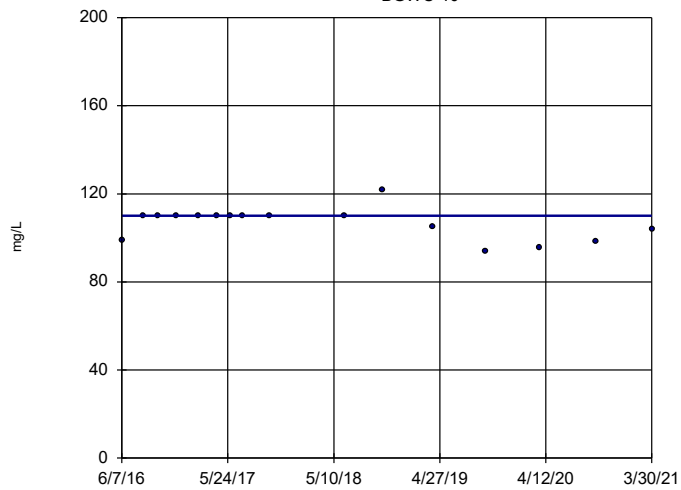


n = 9
 Slope = -15.95
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-10

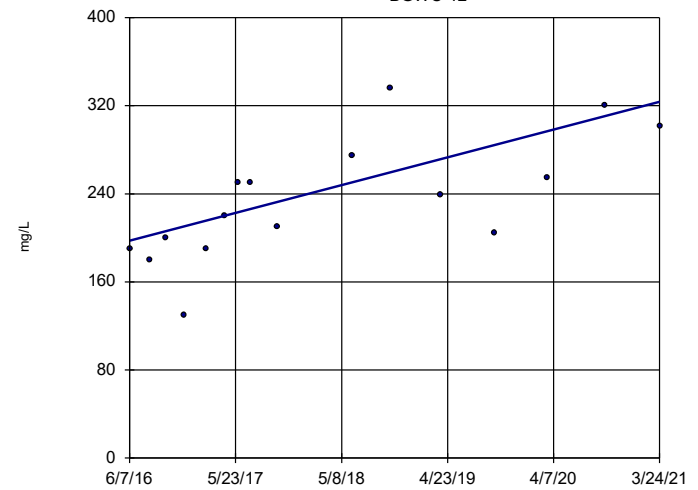


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

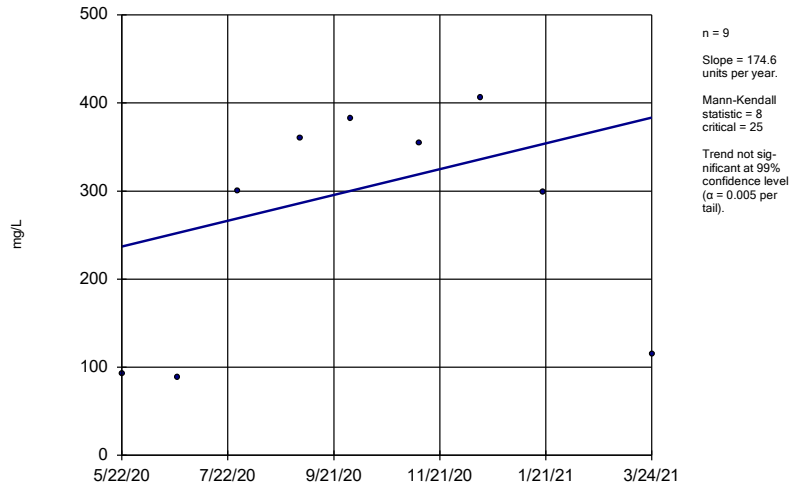
BGWC-12



n = 16
 Slope = 26.28
 units per year.
 Mann-Kendall
 statistic = 70
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

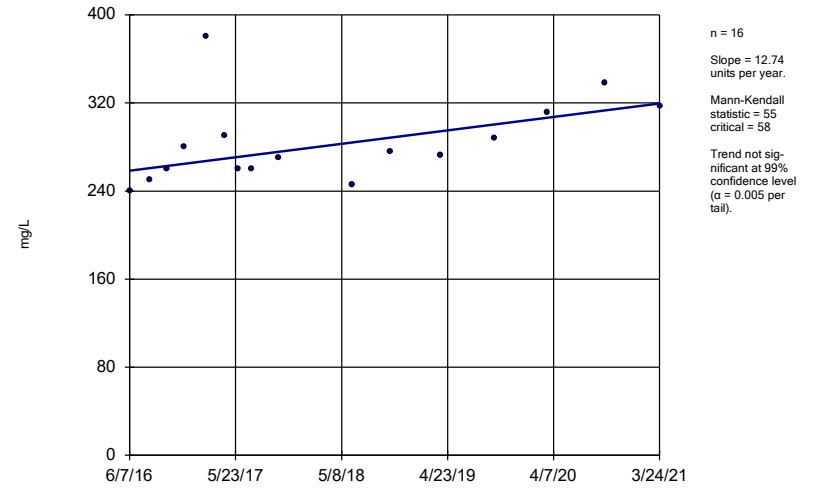
Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-14A



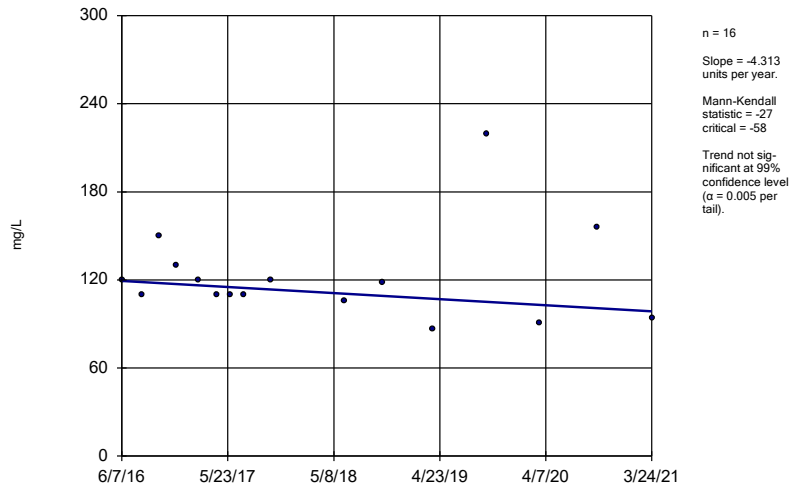
Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-16

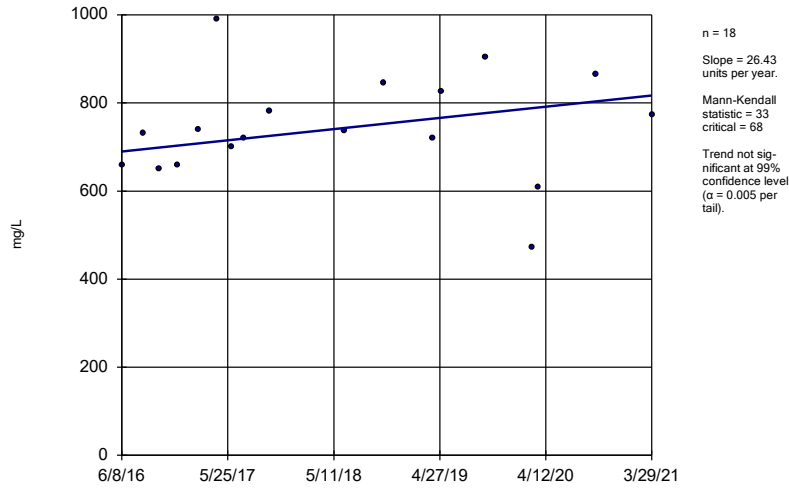


Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-17

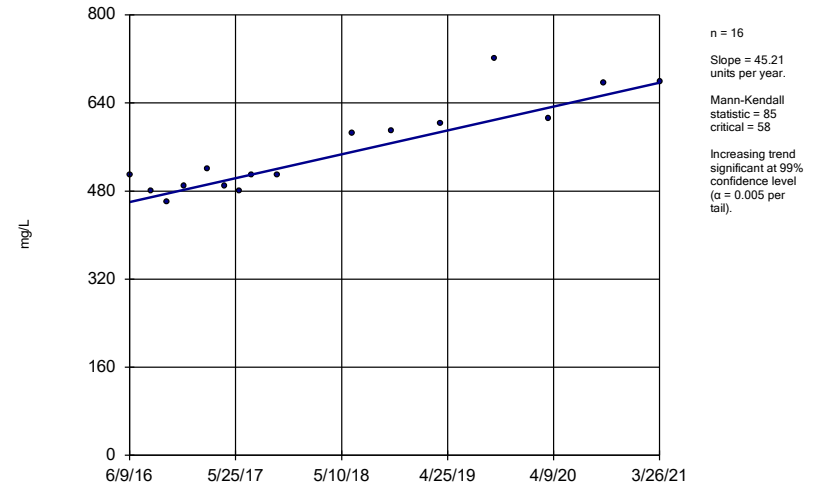


Sen's Slope Estimator
BGWC-22



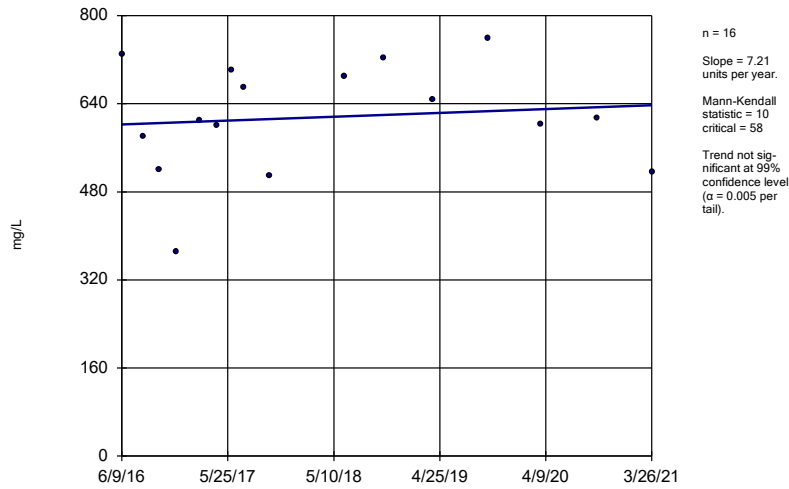
Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-23



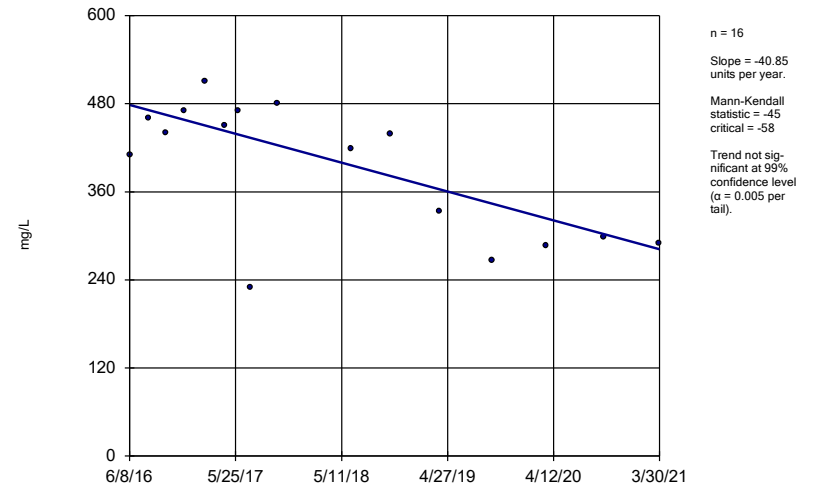
Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator
BGWC-24



Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

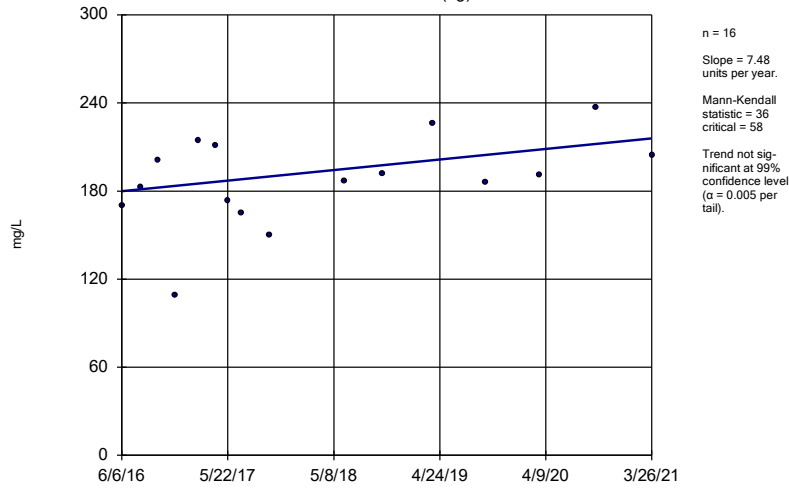
Sen's Slope Estimator
BGWC-7



Constituent: Sulfate Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

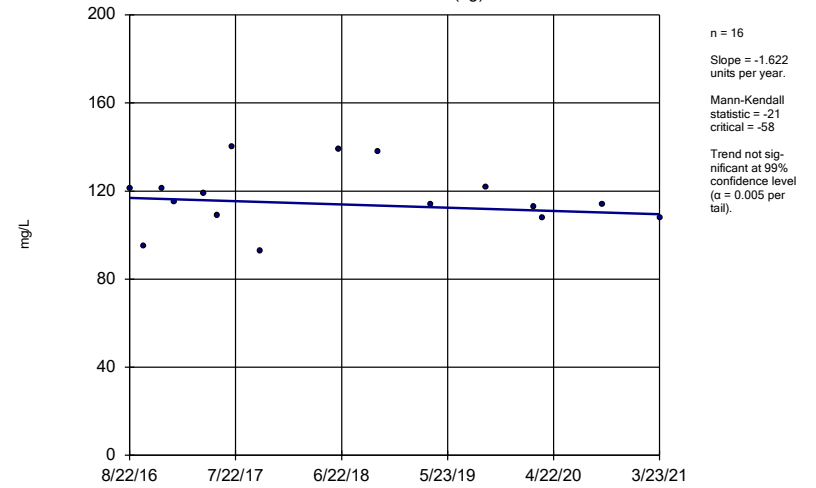
BGWA-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

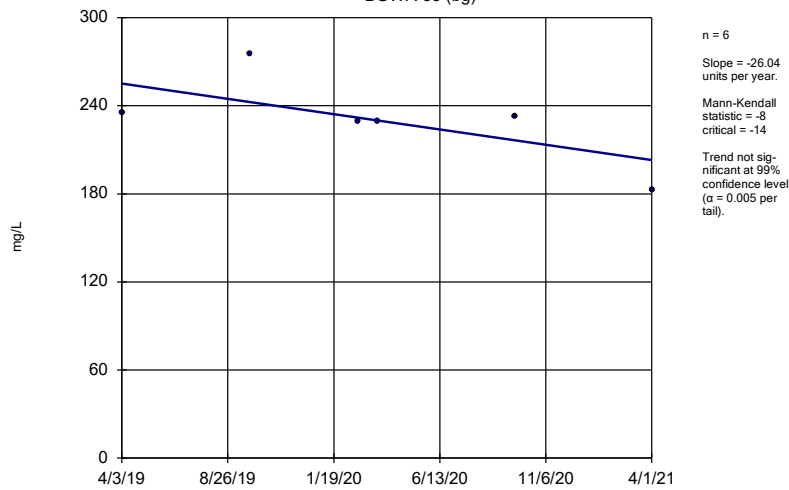
BGWA-29 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

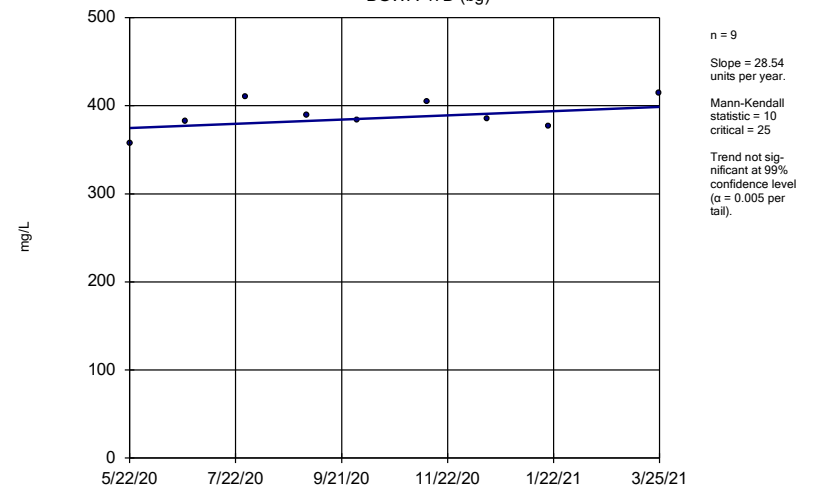
BGWA-33 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

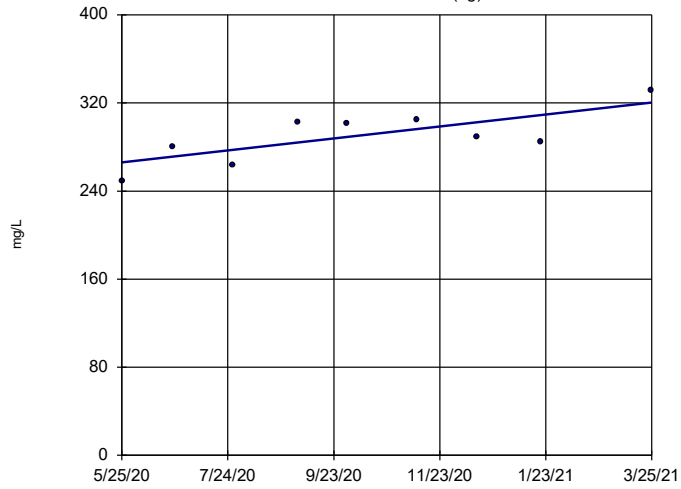
BGWA-47D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWA-48D (bg)

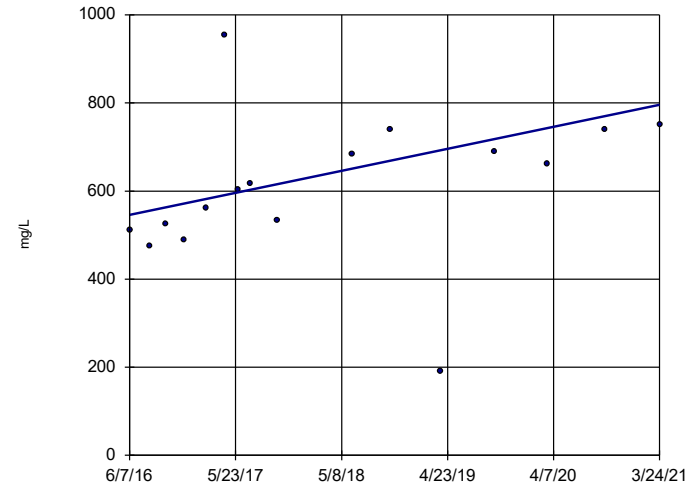


n = 9
 Slope = 65.18
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-12

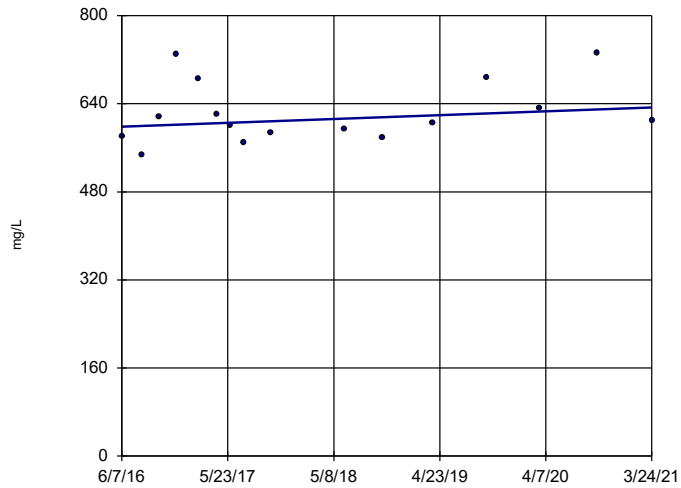


n = 16
 Slope = 52.03
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

BGWC-16

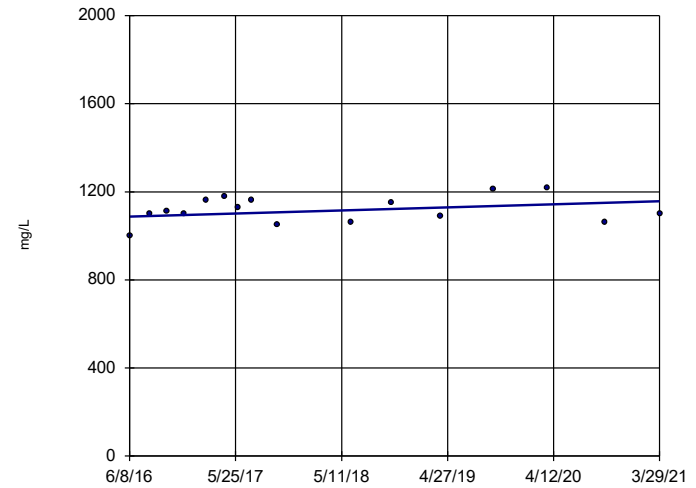


n = 16
 Slope = 7.303
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator

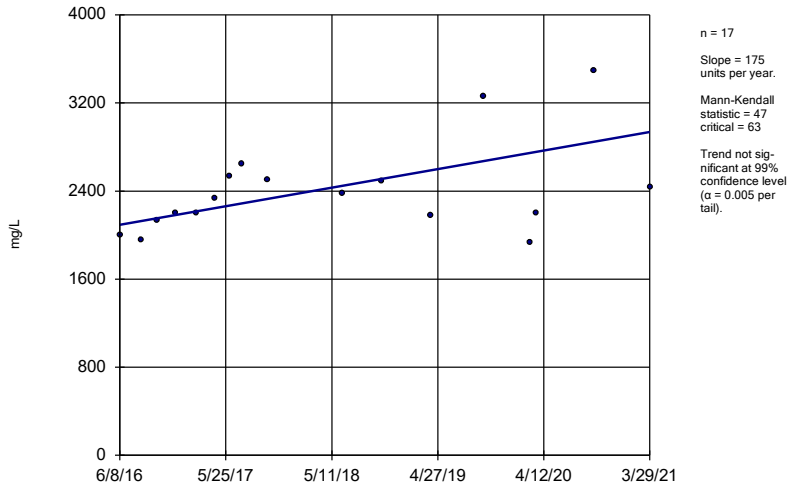
BGWC-20



n = 16
 Slope = 14.4
 units per year.
 Mann-Kendall
 statistic = 19
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

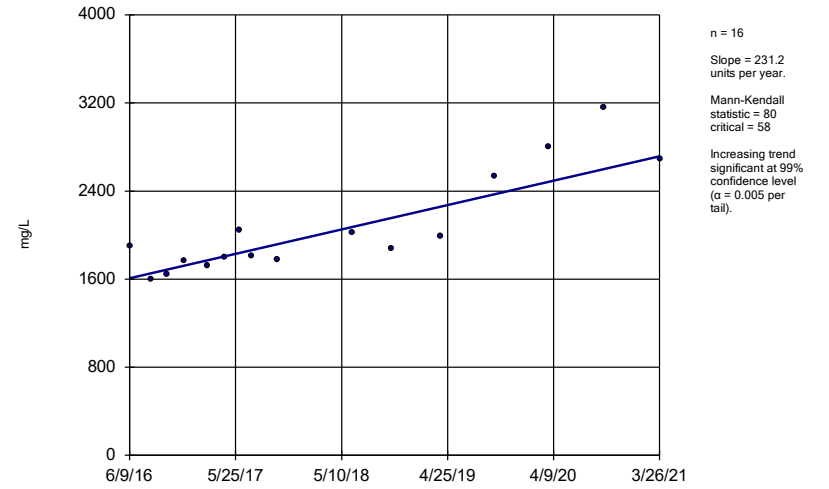
Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWC-22



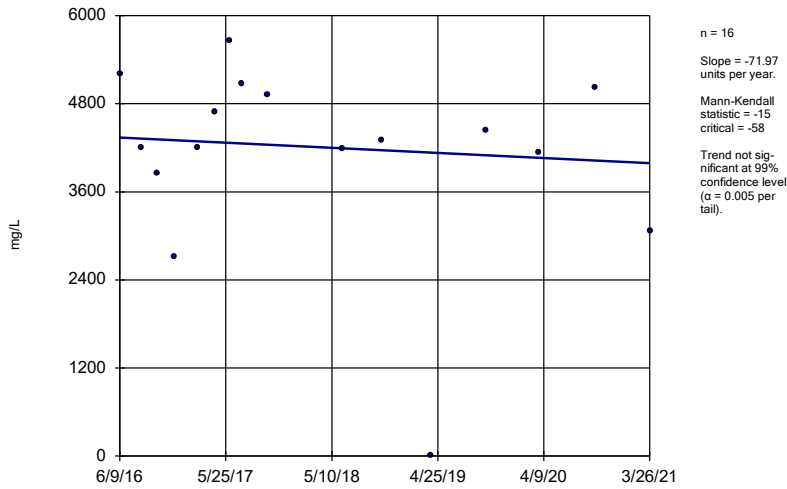
Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWC-23



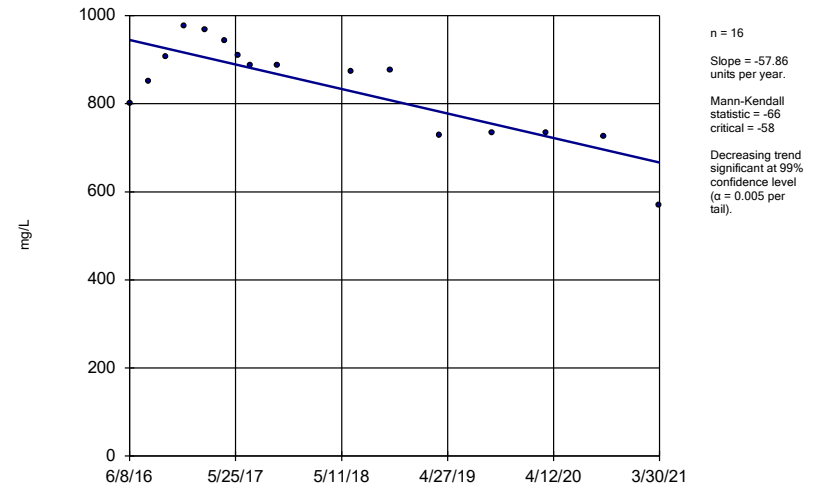
Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWC-24



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

Sen's Slope Estimator BGWC-7



Constituent: Total Dissolved Solids Analysis Run 5/17/2021 12:36 PM View: Appendix III - Trend Tests
Plant Bowen Client: Southern Company Data: Bowen AP-1

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 12:39 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	n/a	55	n/a	n/a	56.36	n/a	n/a	0.05954	NP Inter(NDs)
Arsenic (mg/L)	0.01	n/a	n/a	65	n/a	n/a	46.15	n/a	n/a	0.03565	NP Inter(normality)
Barium (mg/L)	0.218	n/a	n/a	65	n/a	n/a	0	n/a	n/a	0.03565	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	61	n/a	n/a	98.36	n/a	n/a	0.04377	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	65	n/a	n/a	96.92	n/a	n/a	0.03565	NP Inter(NDs)
Chromium (mg/L)	0.005	n/a	n/a	61	n/a	n/a	52.46	n/a	n/a	0.04377	NP Inter(NDs)
Cobalt (mg/L)	0.005	n/a	n/a	66	n/a	n/a	89.39	n/a	n/a	0.03387	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.696	n/a	n/a	65	0.8408	0.4278	0	None	No	0.05	Inter
Fluoride (mg/L)	0.57	n/a	n/a	68	n/a	n/a	50	n/a	n/a	0.03056	NP Inter(normality)
Lead (mg/L)	0.0024	n/a	n/a	61	n/a	n/a	55.74	n/a	n/a	0.04377	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	65	n/a	n/a	83.08	n/a	n/a	0.03565	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	61	n/a	n/a	95.08	n/a	n/a	0.04377	NP Inter(NDs)
Molybdenum (mg/L)	0.034	n/a	n/a	67	n/a	n/a	52.24	n/a	n/a	0.03217	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	61	n/a	n/a	88.52	n/a	n/a	0.04377	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	65	n/a	n/a	83.08	n/a	n/a	0.03565	NP Inter(NDs)

FIGURE G.

BOWEN ASH POND 1 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0042	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.01	0.01	0.01
Barium, Total (mg/L)	2		0.22	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.005	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.005	0.006	0.005
Combined Radium, Total (pCi/L)	5		1.7	5	5
Fluoride, Total (mg/L)	4		0.57	4	4
Lead, Total (mg/L)		0.015	0.0024	0.015	0.0024
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.034	0.1	0.034
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

FIGURE H.

State Confidence Intervals - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.005	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.034	Yes	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.034	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.034	Yes	5	0.164	0.04159	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BGWC-10	0.003	0.0022	0.006	No	15	0.002947	0.0002066	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-14A	0.003	0.00061	0.006	No	10	0.002491	0.001076	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	BGWC-16	0.003	0.0004	0.006	No	15	0.002827	0.0006713	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-17	0.003	0.0002	0.006	No	15	0.002813	0.000723	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-19	0.003	0.0005	0.006	No	15	0.002833	0.0006455	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-20	0.003	0.0014	0.006	No	15	0.002727	0.0007411	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-22	0.003	0.0023	0.006	No	15	0.002712	0.0007297	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-23	0.003	0.0009	0.006	No	15	0.002516	0.001008	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-24	0.003	0.00048	0.006	No	15	0.002656	0.0009081	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-25	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-31	0.003	0.00038	0.006	No	5	0.002476	0.001172	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-32	0.003	0.00036	0.006	No	5	0.00195	0.001438	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-34D	0.003	0.00049	0.006	No	5	0.002056	0.001297	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-35D	0.003	0.00064	0.006	No	5	0.00206	0.001287	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-36D	0.003	0.00096	0.006	No	5	0.002592	0.0009123	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-37D	0.003	0.00041	0.006	No	5	0.002322	0.001124	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-38D	0.001767	-0.00008674	0.006	No	5	0.001704	0.001276	40	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	BGWC-40	0.003	0.0005	0.006	No	5	0.0025	0.001118	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-7	0.003	0.0015	0.006	No	15	0.00246	0.0009775	73.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-8	0.003	0.00059	0.006	No	15	0.002497	0.001043	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-9	0.003	0.00075	0.006	No	14	0.002459	0.001079	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWA-6	0.005	0.00095	0.01	No	16	0.003279	0.002039	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-10	0.007178	0.005528	0.01	No	19	0.006353	0.001409	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-12	0.005	0.0006	0.01	No	19	0.002439	0.00205	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-14A	0.005	0.0011	0.01	No	10	0.00391	0.001774	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BGWC-16	0.005	0.00073	0.01	No	19	0.00301	0.002168	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-17	0.005	0.0008	0.01	No	19	0.003489	0.00205	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-18	0.005	0.00066	0.01	No	19	0.003437	0.002119	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-19	0.005	0.00067	0.01	No	19	0.002977	0.002204	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-20	0.005	0.0011	0.01	No	19	0.002701	0.001853	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-21	0.005	0.00079	0.01	No	18	0.0028	0.00206	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-22	0.003232	0.001821	0.01	No	19	0.002526	0.001205	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-23	0.003132	0.001656	0.01	No	19	0.002394	0.001261	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-24	0.006324	0.00317	0.01	No	19	0.004747	0.002693	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-25	0.003101	0.002067	0.01	No	19	0.002584	0.0008827	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-30	0.005	0.00064	0.01	No	19	0.002591	0.001908	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-31	0.005226	0.003449	0.01	No	8	0.004338	0.0008383	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-32	0.003242	0.000653	0.01	No	8	0.001891	0.001499	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-35D	0.003125	0.0009896	0.01	No	8	0.002058	0.001007	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-36D	0.001503	0.0004669	0.01	No	8	0.002489	0.002139	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	BGWC-37D	0.04467	0.008529	0.01	No	5	0.0266	0.01078	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-38D	0.005353	0.0005847	0.01	No	5	0.00254	0.001641	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-39	0.005	0.00055	0.01	No	5	0.00363	0.002011	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BGWC-40	0.002628	-0.0002748	0.01	No	5	0.002706	0.002224	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BGWC-7	0.003055	0.001912	0.01	No	19	0.002542	0.001048	10.53	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-8	0.005	0.00047	0.01	No	19	0.002293	0.002138	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-9	0.00319	0.00211	0.01	No	18	0.00265	0.0008926	5.556	None	No	0.01	Param.
Barium (mg/L)	BGWA-6	0.0144	0.0114	2	No	16	0.01484	0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-10	0.06063	0.04703	2	No	19	0.05421	0.01226	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-12	0.03516	0.0294	2	No	19	0.03228	0.004913	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-14A	0.04321	0.03319	2	No	10	0.0382	0.005613	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-16	0.03012	0.02712	2	No	19	0.02867	0.002664	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BGWC-17	0.01905	0.01588	2	No	19	0.01746	0.00271	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-18	0.03567	0.03023	2	No	19	0.03305	0.004747	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-19	0.03866	0.03092	2	No	19	0.03479	0.006612	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-20	0.03406	0.03046	2	No	19	0.03226	0.003075	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-21	0.04545	0.03429	2	No	18	0.03987	0.00922	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-22	0.09254	0.08314	2	No	19	0.08756	0.008615	0	None	x^2	0.01	Param.
Barium (mg/L)	BGWC-23	0.11	0.084	2	No	19	0.09761	0.01497	0	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	BGWC-24	0.1141	0.0845	2	No	19	0.09929	0.02527	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-25	0.02585	0.01824	2	No	19	0.02266	0.006985	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-30	0.192	0.074	2	No	19	0.1266	0.06091	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-31	0.055	0.032	2	No	8	0.03925	0.007046	0	None	No	0.004	NP (normality)
Barium (mg/L)	BGWC-32	0.1335	0.08823	2	No	8	0.1109	0.02136	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-34D	0.04844	0.03331	2	No	8	0.04088	0.00714	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-35D	0.11	0.06774	2	No	8	0.08888	0.01994	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-36D	0.09071	0.0615	2	No	8	0.07588	0.01541	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-37D	0.1207	0.07892	2	No	5	0.0998	0.01246	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-38D	0.2664	0.04482	2	No	5	0.1556	0.06611	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-39	0.09667	0.02733	2	No	5	0.062	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-40	0.06504	0.03936	2	No	5	0.0522	0.007662	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-7	0.04002	0.03429	2	No	19	0.03716	0.004895	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-8	0.03085	0.02684	2	No	19	0.02804	0.006046	0	None	x^3	0.01	Param.
Barium (mg/L)	BGWC-9	0.03239	0.02767	2	No	18	0.03003	0.003898	0	None	No	0.01	Param.
Beryllium (mg/L)	BGWC-12	0.0005	0.000076	0.004	No	17	0.0004484	0.0001459	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-16	0.0005	0.00011	0.004	No	17	0.0003147	0.0002034	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-17	0.0005	0.000065	0.004	No	17	0.0004482	0.0001463	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-18	0.0005	0.000076	0.004	No	17	0.0003504	0.0002091	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-19	0.0005	0.00008	0.004	No	17	0.0003732	0.0002026	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-22	0.0005	0.000099	0.004	No	17	0.0003134	0.0002045	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-23	0.0005	0.000054	0.004	No	17	0.0004738	0.0001082	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-24	0.0005	0.00013	0.004	No	17	0.0003884	0.0001791	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-36D	0.0005	0.00007	0.004	No	7	0.0004386	0.0001625	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	BGWC-38D	0.0005	0.00006	0.004	No	5	0.0003296	0.0002335	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	BGWC-39	0.0005	0.000079	0.004	No	5	0.0004158	0.0001883	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-14A	0.0005	0.00016	0.005	No	10	0.000335	0.0001745	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	BGWC-16	0.0017	0.0011	0.005	No	19	0.001416	0.0002911	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-17	0.0005	0.00015	0.005	No	19	0.0003179	0.0001814	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-18	0.0004049	0.0001676	0.005	No	19	0.0004133	0.0001907	42.11	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BGWC-19	0.0005	0.0002	0.005	No	19	0.0004421	0.0001387	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-20	0.0005	0.00008	0.005	No	19	0.0004779	0.00009635	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-22	0.0005	0.00038	0.005	No	19	0.0004495	0.000111	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-23	0.0005	0.00019	0.005	No	19	0.0004837	0.00007112	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-24	0.00611	0.003177	0.005	No	19	0.004643	0.002504	0	None	No	0.01	Param.
Cadmium (mg/L)	BGWC-30	0.0005	0.0003	0.005	No	19	0.0004042	0.000142	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-38D	0.00081	0.00032	0.005	No	5	0.000526	0.0001769	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-39	0.0002183	0.0001329	0.005	No	5	0.000304	0.0001802	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	BGWA-6	0.005	0.0044	0.1	No	15	0.004727	0.0009059	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-10	0.005	0.0011	0.1	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-12	0.005	0.00058	0.1	No	17	0.003684	0.002104	70.59	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-14A	0.005	0.005	0.1	No	10	0.0071	0.006641	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	BGWC-16	0.005	0.0019	0.1	No	17	0.004565	0.001245	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-17	0.005	0.00044	0.1	No	17	0.004461	0.001523	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-18	0.005	0.0011	0.1	No	17	0.004248	0.001679	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-20	0.005	0.00096	0.1	No	17	0.003496	0.001892	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-21	0.005	0.0025	0.1	No	16	0.004557	0.00127	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-23	0.005	0.0033	0.1	No	17	0.004194	0.001608	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-24	0.005	0.0009	0.1	No	17	0.004235	0.001706	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-25	0.005	0.0021	0.1	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-30	0.005	0.00073	0.1	No	17	0.002054	0.001972	29.41	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-31	0.005	0.00056	0.1	No	7	0.003186	0.002269	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-32	0.005	0.00057	0.1	No	7	0.002587	0.002266	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-35D	0.005	0.00067	0.1	No	7	0.003213	0.002233	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-36D	0.005	0.00057	0.1	No	7	0.002534	0.002311	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-37D	0.005	0.00068	0.1	No	5	0.003272	0.002366	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-38D	0.005	0.00042	0.1	No	5	0.003704	0.002012	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-39	0.005	0.001	0.1	No	5	0.0042	0.001789	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-40	0.005	0.00043	0.1	No	5	0.001528	0.001948	20	None	No	0.031	NP (normality)
Chromium (mg/L)	BGWC-7	0.005	0.00095	0.1	No	17	0.004242	0.00169	82.35	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BGWC-8	0.005	0.001	0.1	No	17	0.00593	0.01482	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-9	0.005	0.002	0.1	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWA-6	0.005	0.00042	0.005	No	16	0.003336	0.002226	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-10	0.005	0.00056	0.005	No	19	0.004035	0.001921	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-12	0.005	0.00035	0.005	No	19	0.00284	0.002341	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-14A	0.001787	0.0007838	0.005	No	10	0.002481	0.001794	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BGWC-16	0.0089	0.0045	0.005	No	19	0.0062	0.002046	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-17	0.005	0.00015	0.005	No	19	0.004745	0.001113	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-18	0.005	0.00071	0.005	No	19	0.003833	0.002011	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-19	0.005	0.000072	0.005	No	19	0.004741	0.001131	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-20	0.005	0.0008	0.005	No	19	0.004284	0.001701	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-21	0.005	0.00041	0.005	No	18	0.002822	0.002252	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.005	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-23	0.005	0.00046	0.005	No	19	0.003617	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-24	0.004365	0.003046	0.005	No	19	0.003705	0.001126	10.53	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-25	0.005	0.0006	0.005	No	19	0.004517	0.001449	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-30	0.005	0.0008	0.005	No	19	0.003006	0.002167	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-31	0.005	0.00031	0.005	No	8	0.001605	0.0021	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-32	0.009157	0.002953	0.005	No	10	0.006055	0.003477	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-34D	0.005	0.00039	0.005	No	8	0.001714	0.002044	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-35D	0.002784	0.0005469	0.005	No	8	0.001622	0.00143	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BGWC-36D	0.005	0.00038	0.005	No	8	0.001752	0.002018	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-37D	0.002024	0.0004958	0.005	No	5	0.00126	0.0004561	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-38D	0.01423	-0.003147	0.005	No	5	0.00554	0.005184	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-39	0.005	0.00047	0.005	No	6	0.00323	0.002186	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	BGWC-40	0.0006256	0.0004184	0.005	No	5	0.000522	0.000061810		None	No	0.01	Param.
Cobalt (mg/L)	BGWC-7	0.00094	0.00067	0.005	No	19	0.001645	0.001783	21.05	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-8	0.005	0.0012	0.005	No	19	0.004036	0.00193	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-9	0.005	0.0006	0.005	No	18	0.00423	0.001773	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BGWA-6	0.6779	0.2858	5	No	16	0.5072	0.334	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-10	1.496	0.9507	5	No	19	1.25	0.5107	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-12	0.7903	0.342	5	No	19	0.5662	0.3828	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-14A	1.516	0.5886	5	No	10	1.052	0.5195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-16	1.235	0.6558	5	No	19	0.9452	0.4943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-17	0.8851	0.4843	5	No	19	0.6847	0.3422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-18	1.085	0.5517	5	No	19	0.8578	0.5222	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-19	1.173	0.6631	5	No	19	0.9182	0.4356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-20	1.461	0.9248	5	No	19	1.193	0.458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-21	0.9066	0.5258	5	No	18	0.7162	0.3147	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-22	2.954	1.955	5	No	19	2.455	0.8534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-23	1.931	1.126	5	No	19	1.528	0.6878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-24	3.22	2.209	5	No	19	2.715	0.8635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-25	0.9545	0.5019	5	No	19	0.7282	0.3865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-30	2.315	1.219	5	No	18	1.767	0.906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-31	1.968	1.035	5	No	8	1.501	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-32	2.405	1.265	5	No	8	1.835	0.5378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-34D	3.104	1.326	5	No	8	2.215	0.8384	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-35D	3.414	1.723	5	No	8	2.569	0.7977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-36D	2.651	1.431	5	No	8	2.041	0.5753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-37D	3.797	1.739	5	No	5	2.768	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-38D	5.91	3.34	5	No	5	4.916	1.349	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BGWC-39	2.195	0.2017	5	No	5	1.198	0.5947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-40	1.354	0.2759	5	No	5	0.8148	0.3216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-7	1.729	1.223	5	No	19	1.476	0.432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-8	0.8464	0.3841	5	No	19	0.6152	0.3948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-9	1.074	0.4736	5	No	18	0.8216	0.5643	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWA-6	0.12	0.06	4	No	17	0.08647	0.02805	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-10	0.1194	0.05452	4	No	20	0.1133	0.07275	35	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-12	0.1093	0.03989	4	No	20	0.1056	0.06623	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-14A	0.1	0.055	4	No	10	0.0833	0.02182	60	Kaplan-Meier	No	0.011	NP (NDs)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-16	0.1726	0.06212	4	No	20	0.143	0.1185	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-17	0.2304	0.1207	4	No	20	0.1996	0.1466	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-18	0.14	0.06	4	No	20	0.1312	0.1047	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-19	0.11	0.07	4	No	20	0.1212	0.1191	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-20	0.13	0.06	4	No	20	0.1238	0.1416	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-21	0.1	0.066	4	No	19	0.082	0.02731	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-22	0.4654	0.254	4	No	21	0.4086	0.304	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-23	0.12	0.066	4	No	20	0.1874	0.2304	15	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-24	0.9095	0.1481	4	No	20	0.9855	1.156	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-25	0.09695	0.05548	4	No	20	0.09325	0.03155	45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-30	0.3164	0.1097	4	No	20	0.2391	0.2139	15	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-32	0.66	0.13	4	No	10	0.3897	0.3932	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	BGWC-34D	0.1	0.035	4	No	8	0.09188	0.02298	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BGWC-35D	0.91	0.11	4	No	8	0.2625	0.2659	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-36D	0.44	0.1	4	No	8	0.1775	0.1177	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-37D	0.585	0.179	4	No	5	0.382	0.1211	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-38D	0.7759	0.4361	4	No	5	0.606	0.1014	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-39	0.1361	0.04475	4	No	6	0.09433	0.03542	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-40	0.1078	0.03715	4	No	6	0.092	0.02668	50	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-41D	0.1084	0.06761	4	No	4	0.091	0.0108	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-42D	0.8149	0.2451	4	No	5	0.53	0.17	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-43D	1.031	0.7606	4	No	5	0.896	0.08081	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-44D	0.1811	0.05185	4	No	4	0.112	0.0325	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-7	0.1855	0.1192	4	No	20	0.1524	0.05831	5	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-8	0.1	0.061	4	No	20	0.07905	0.03141	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-9	0.2321	0.1066	4	No	19	0.1971	0.1497	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BGWA-6	0.001	0.00007	0.0024	No	15	0.0007567	0.0004182	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-10	0.001	0.00019	0.0024	No	17	0.0009018	0.0002774	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-12	0.001	0.0001	0.0024	No	17	0.0006263	0.0004267	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-14A	0.001	0.000062	0.0024	No	10	0.0006301	0.0004777	60	None	No	0.011	NP (NDs)
Lead (mg/L)	BGWC-16	0.001	0.00013	0.0024	No	17	0.0006076	0.0004325	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-17	0.001	0.000079	0.0024	No	17	0.0009458	0.0002234	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-18	0.001	0.0001	0.0024	No	17	0.0006336	0.0004521	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-19	0.001	0.0006	0.0024	No	17	0.0009199	0.000247	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-20	0.001	0.0001	0.0024	No	17	0.0008931	0.0003017	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-21	0.001	0.00006	0.0024	No	16	0.0005928	0.000477	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-22	0.001	0.00014	0.0024	No	17	0.0007468	0.0004083	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-23	0.001	0.00031	0.0024	No	17	0.0009088	0.0002591	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-24	0.001	0.000071	0.0024	No	17	0.0007016	0.0004333	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-25	0.001	0.00013	0.0024	No	17	0.0006485	0.00041	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-30	0.001	0.00015	0.0024	No	17	0.0005171	0.0004217	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	BGWC-31	0.0009994	0.00007664	0.0024	No	7	0.000538	0.0003884	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-32	0.001	0.000072	0.0024	No	7	0.0007403	0.0004437	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-34D	0.001	0.000054	0.0024	No	7	0.0008649	0.0003576	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-35D	0.000644	0.00005196	0.0024	No	7	0.0003156	0.0003174	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	BGWC-36D	0.0008082	0.00002608	0.0024	No	7	0.0004171	0.0003292	14.29	None	No	0.01	Param.
Lead (mg/L)	BGWC-37D	0.0002888	0.00003785	0.0024	No	5	0.000311	0.0003952	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BGWC-38D	0.0002827	0.0001508	0.0024	No	5	0.000526	0.0004339	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	BGWC-39	0.001	0.0001	0.0024	No	5	0.00082	0.0004025	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	BGWC-40	0.0002427	0.0001053	0.0024	No	5	0.000174	0.00004099	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-8	0.001	0.0003	0.0024	No	17	0.0008053	0.0003638	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-9	0.001	0.000075	0.0024	No	16	0.0005168	0.0004521	43.75	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWA-6	0.03	0.00082	0.03	No	16	0.02818	0.007295	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-10	0.03	0.0011	0.03	No	19	0.01063	0.01358	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-12	0.03	0.001	0.03	No	19	0.01779	0.01471	57.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-14A	0.03	0.00091	0.03	No	10	0.01836	0.01502	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	BGWC-16	0.03	0.00049	0.03	No	19	0.02845	0.00677	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-17	0.03	0.00069	0.03	No	19	0.02846	0.006724	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-20	0.02542	0.01743	0.03	No	19	0.02176	0.007278	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-22	0.034	0.0125	0.03	No	19	0.02271	0.01037	0	None	No	0.01	NP (normality)

State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BGWC-23	0.02195	0.01144	0.03	No	19	0.01847	0.01098	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BGWC-24	0.0082	0.0055	0.03	No	19	0.009116	0.007437	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-30	0.0192	0.0014	0.03	No	19	0.01086	0.009003	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-34D	0.03	0.00068	0.03	No	8	0.02271	0.0135	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	BGWC-35D	0.0161	0.007403	0.03	No	8	0.01175	0.004101	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-36D	0.03	0.001	0.03	No	8	0.005662	0.009893	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BGWC-37D	0.04535	-0.005831	0.03	No	5	0.01976	0.01527	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-38D	0.02239	0.006247	0.03	No	5	0.01432	0.004818	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-39	0.006576	0.00217	0.03	No	5	0.00416	0.001419	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-40	0.03	0.00079	0.03	No	5	0.0125	0.01598	40	None	No	0.031	NP (normality)
Lithium (mg/L)	BGWC-7	0.0097	0.0079	0.03	No	19	0.009737	0.005	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-8	0.03	0.001	0.03	No	19	0.02847	0.006653	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-9	0.03	0.0012	0.03	No	18	0.01251	0.01436	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	BGWA-6	0.0002	0.000084	0.002	No	15	0.0001923	0.00002995	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-10	0.0002	0.0001	0.002	No	17	0.0001852	0.00004284	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-12	0.0002	0.0001	0.002	No	17	0.0001858	0.00004086	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-16	0.0002	0.000098	0.002	No	17	0.000194	0.00002474	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-17	0.0002435	0.0001598	0.002	No	17	0.0002047	0.00007247	11.76	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	BGWC-18	0.0002	0.000079	0.002	No	17	0.0001929	0.00002935	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-19	0.0002	0.00008	0.002	No	17	0.0001841	0.00004515	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-20	0.0002	0.000066	0.002	No	17	0.0001921	0.0000325	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-22	0.0002	0.000092	0.002	No	17	0.0001844	0.00004505	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-23	0.0002	0.00005	0.002	No	17	0.000182	0.00005082	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-24	0.0007232	0.00008443	0.002	No	17	0.001142	0.001614	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	BGWC-25	0.0002	0.000047	0.002	No	17	0.000191	0.00003711	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-30	0.0002	0.00006	0.002	No	17	0.0001418	0.00006564	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-36D	0.0002	0.00018	0.002	No	7	0.0001971	0.00000755	5.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	BGWC-38D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	BGWC-7	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-8	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-9	0.0002	0.00008	0.002	No	16	0.0001925	0.00003	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWA-6	0.01	0.001	0.034	No	16	0.008829	0.003203	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-10	0.0037	0.0032	0.034	No	19	0.003679	0.000831	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-14A	0.01	0.0012	0.034	No	10	0.003474	0.003578	20	None	No	0.011	NP (normality)
Molybdenum (mg/L)	BGWC-19	0.01	0.00023	0.034	No	19	0.009486	0.002241	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-20	0.016	0.0125	0.034	No	19	0.01516	0.004259	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-21	0.01	0.0014	0.034	No	18	0.004289	0.003697	27.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.034	Yes	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-23	0.01305	0.012	0.034	No	19	0.01253	0.0008993	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-24	0.01	0.0013	0.034	No	19	0.005261	0.003956	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-25	0.01	0.0026	0.034	No	19	0.007024	0.003726	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-30	0.01572	0.007431	0.034	No	19	0.01157	0.007075	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-31	0.01	0.00033	0.034	No	8	0.008791	0.003419	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BGWC-32	0.0048	0.003	0.034	No	9	0.003478	0.0005761	0	None	No	0.002	NP (normality)
Molybdenum (mg/L)	BGWC-34D	0.01	0.00078	0.034	No	8	0.002247	0.003159	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BGWC-35D	0.03465	0.02512	0.034	No	9	0.02989	0.004936	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-36D	0.01442	0.006182	0.034	No	9	0.0103	0.004265	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-37D	0.03049	0.006725	0.034	No	6	0.01663	0.01179	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.034	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-39	0.01098	0.001135	0.034	No	5	0.00606	0.002939	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-40	0.001748	0.0006314	0.034	No	5	0.004658	0.004883	40	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-41D	0.01661	0.00789	0.034	No	4	0.01225	0.002217	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-42D	0.0241	-0.009495	0.034	No	5	0.01402	0.007811	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.034	Yes	5	0.164	0.04159	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-44D	0.008521	0.0008123	0.034	No	4	0.006	0.003161	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-7	0.0117	0.0099	0.034	No	19	0.01059	0.002696	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-8	0.00281	0.001171	0.034	No	19	0.004783	0.003854	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-9	0.003415	0.002708	0.034	No	18	0.003061	0.0005842	0	None	No	0.01	Param.
Selenium (mg/L)	BGWA-6	0.005	0.0032	0.05	No	15	0.004567	0.001266	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-12	0.005	0.0004	0.05	No	17	0.004729	0.001116	94.12	None	No	0.01	NP (NDs)

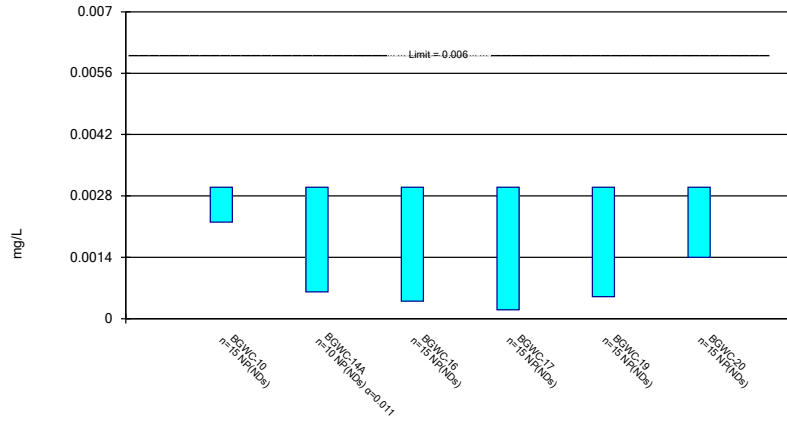
State Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	BGWC-14A	0.005	0.005	0.05	No	10	0.00464	0.001138	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BGWC-16	0.005	0.0017	0.05	No	17	0.003688	0.00169	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-17	0.005	0.0022	0.05	No	17	0.004098	0.00171	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-18	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-19	0.005	0.0013	0.05	No	17	0.004254	0.00167	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-20	0.005	0.0037	0.05	No	17	0.004924	0.0003153	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-21	0.005	0.001	0.05	No	16	0.004445	0.001525	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-22	0.012	0.0026	0.05	No	17	0.005082	0.002014	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-23	0.0176	0.002	0.05	No	17	0.005565	0.003185	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-24	0.00709	0.002798	0.05	No	17	0.006541	0.00644	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BGWC-30	0.0102	0.005525	0.05	No	17	0.007865	0.003734	11.76	None	No	0.01	Param.
Selenium (mg/L)	BGWC-31	0.005	0.00008	0.05	No	7	0.004297	0.00186	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-32	0.005	0.00015	0.05	No	7	0.004307	0.001833	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-34D	0.005	0.0001	0.05	No	7	0.0043	0.001852	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-36D	0.01335	0.003196	0.05	No	7	0.008271	0.004273	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-38D	0.005	0.003	0.05	No	5	0.0046	0.0008944	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-39	0.005	0.002	0.05	No	5	0.0038	0.001643	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-40	0.01185	0.0001122	0.05	No	5	0.00598	0.003502	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-8	0.005	0.00015	0.05	No	17	0.004423	0.001628	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-9	0.005	0.001	0.05	No	16	0.003519	0.002003	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWA-6	0.001	0.000061	0.002	No	16	0.0004816	0.0004729	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-12	0.001	0.00009	0.002	No	19	0.0007569	0.0004179	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-14A	0.0005285	0.0001855	0.002	No	10	0.000357	0.0001922	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-16	0.00024	0.0002	0.002	No	19	0.0002216	0.00003532	0	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-17	0.001	0.00008	0.002	No	19	0.0005295	0.0004608	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-18	0.001	0.000071	0.002	No	19	0.0008526	0.0003498	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-19	0.001	0.00008	0.002	No	19	0.0007087	0.0004406	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-20	0.001	0.0002	0.002	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-22	0.0007682	0.0005834	0.002	No	19	0.0006758	0.0001577	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-23	0.001	0.00018	0.002	No	19	0.0007395	0.0003707	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-24	0.0006804	0.0004312	0.002	No	19	0.0005558	0.0002128	10.53	None	No	0.01	Param.
Thallium (mg/L)	BGWC-30	0.0005088	0.0002194	0.002	No	19	0.0005829	0.0003072	15.79	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-32	0.00046	0.000084	0.002	No	8	0.0001793	0.0001163	0	None	No	0.004	NP (normality)
Thallium (mg/L)	BGWC-34D	0.001	0.000089	0.002	No	8	0.0008861	0.0003221	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-35D	0.001	0.000068	0.002	No	8	0.0007785	0.0004109	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-36D	0.0002942	0.0001233	0.002	No	8	0.0002088	0.00008061	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-38D	0.002393	-0.0009636	0.002	No	5	0.0008712	0.001085	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-39	0.0002624	0.0001096	0.002	No	5	0.000186	0.00004561	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-40	0.001	0.00014	0.002	No	5	0.000828	0.0003846	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	BGWC-7	0.001	0.00011	0.002	No	19	0.0007638	0.0004062	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-9	0.001	0.00022	0.002	No	18	0.0008592	0.0003252	83.33	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

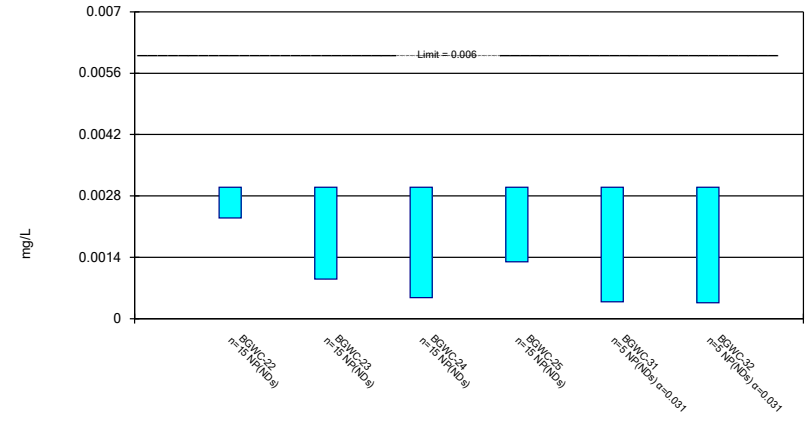
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/17/2021 1:04 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

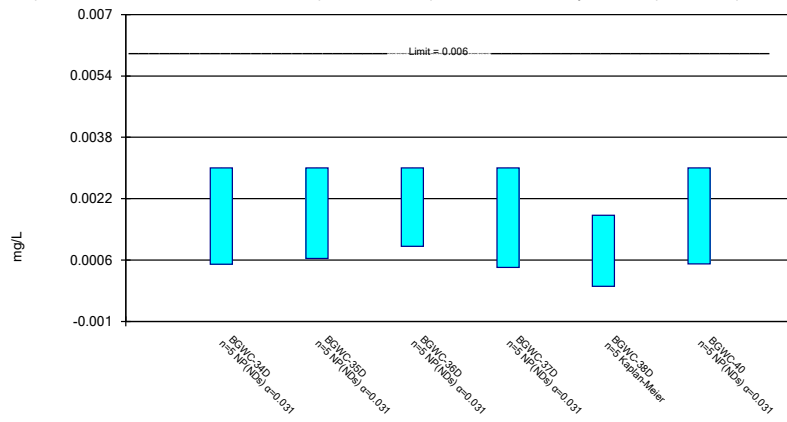
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Constituent: Antimony Analysis Run 5/17/2021 1:04 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

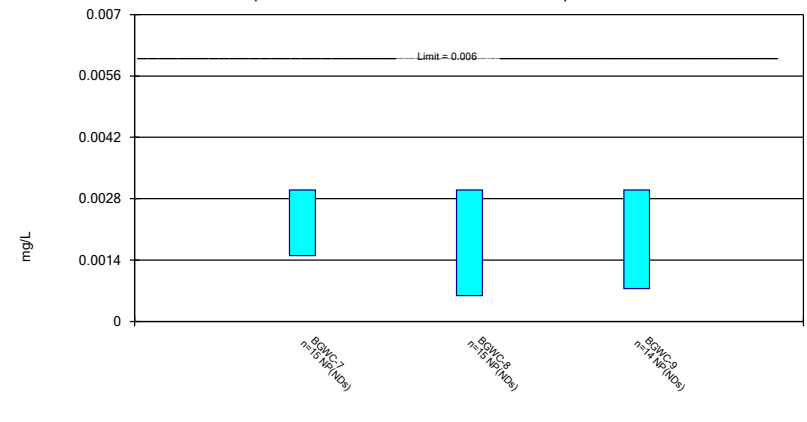
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Constituent: Antimony Analysis Run 5/17/2021 1:04 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

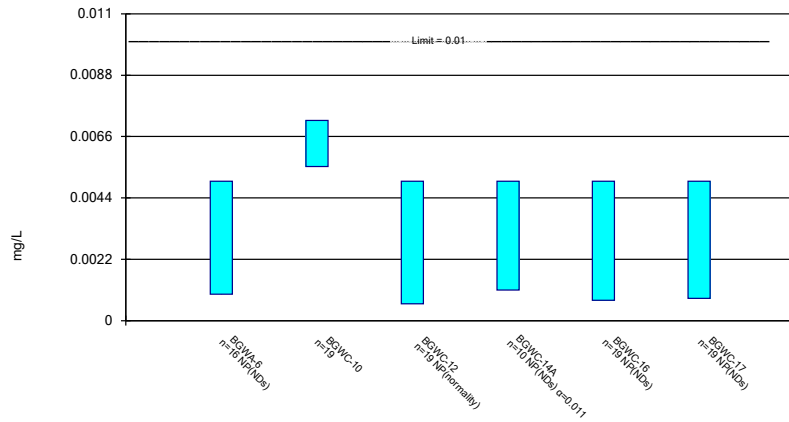
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Constituent: Antimony Analysis Run 5/17/2021 1:04 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

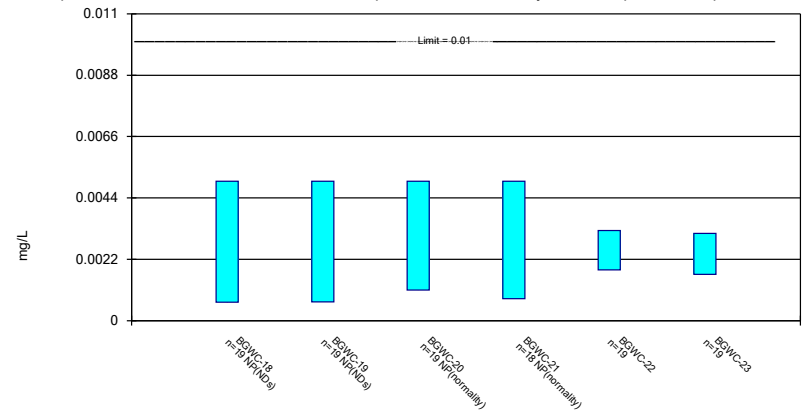
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Constituent: Arsenic Analysis Run 5/17/2021 1:04 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

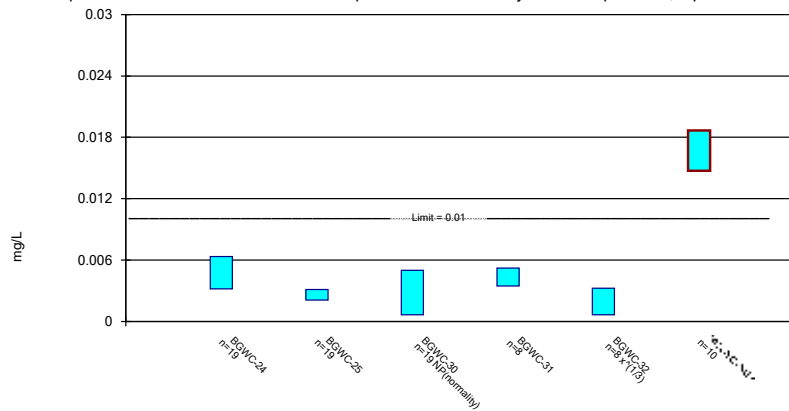
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Constituent: Arsenic Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

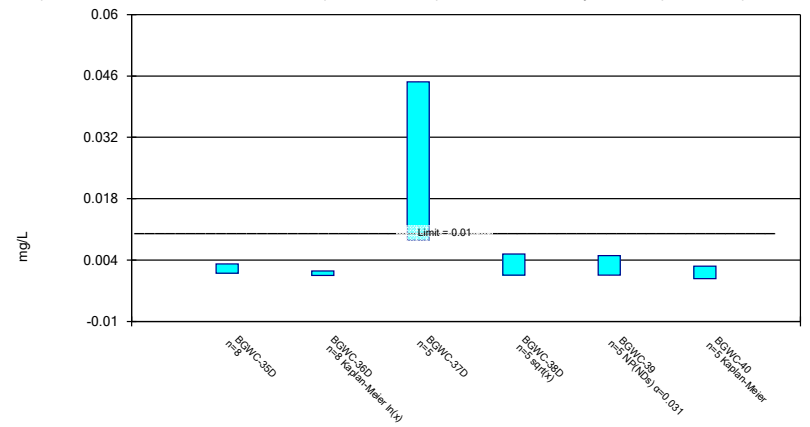
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Constituent: Arsenic Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

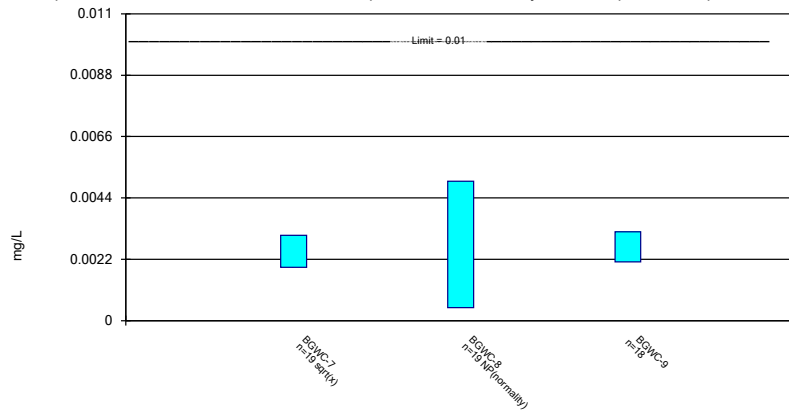
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

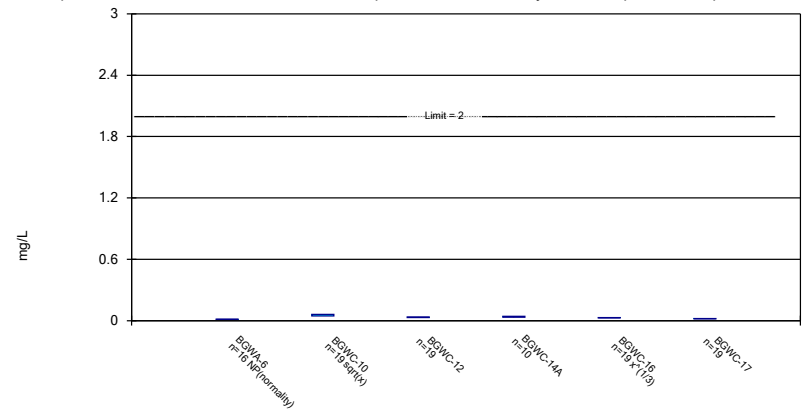
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Constituent: Arsenic Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

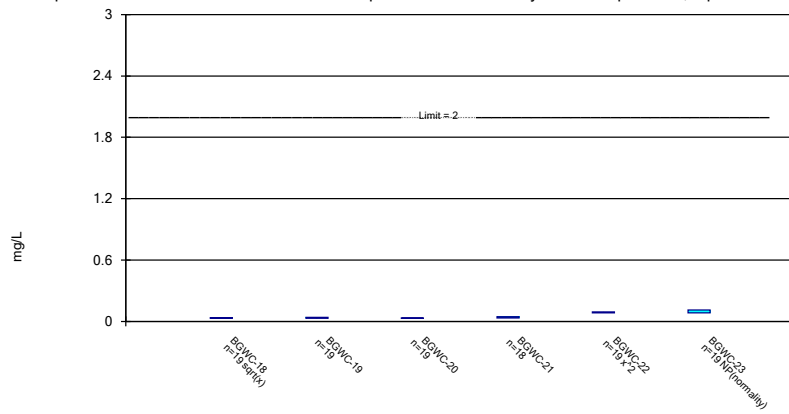
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Constituent: Barium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

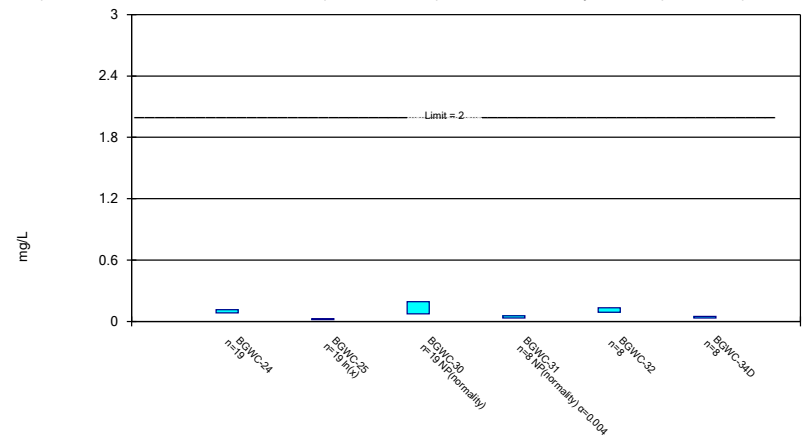
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Constituent: Barium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

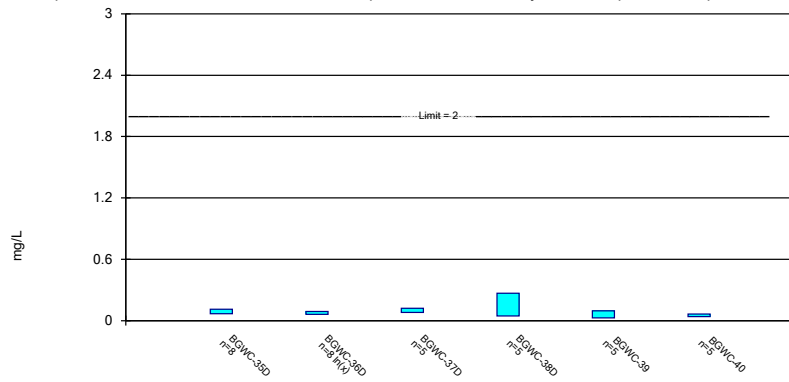
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Constituent: Barium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

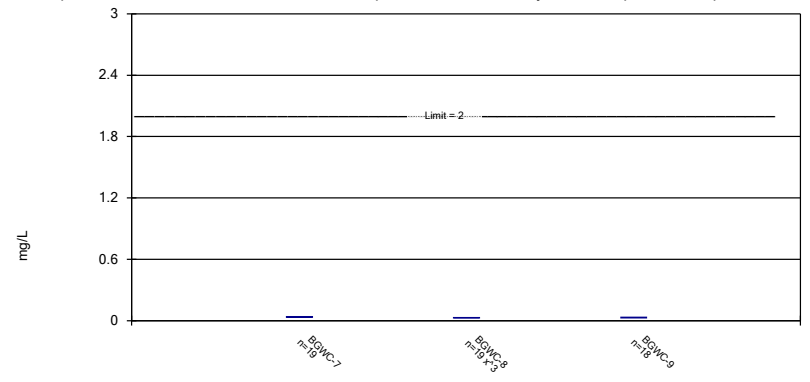
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Constituent: Barium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

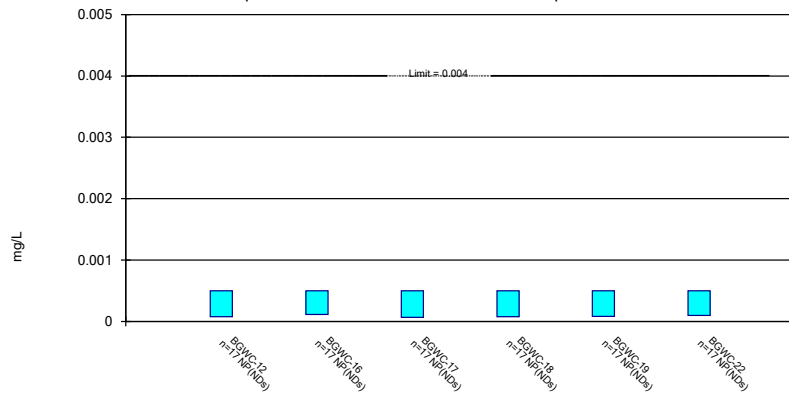
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Constituent: Barium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

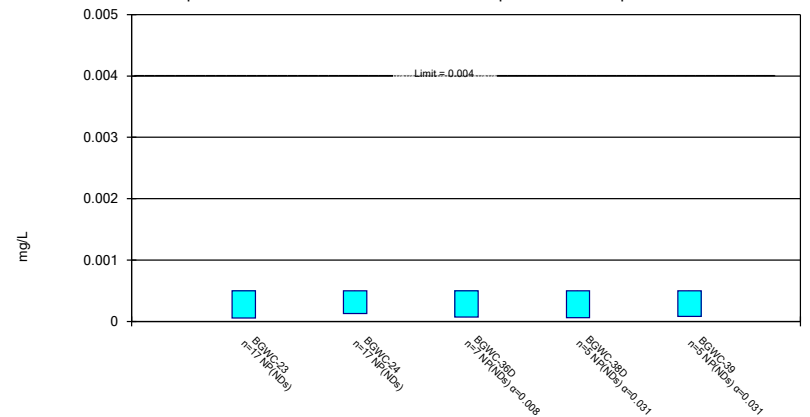
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Constituent: Beryllium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

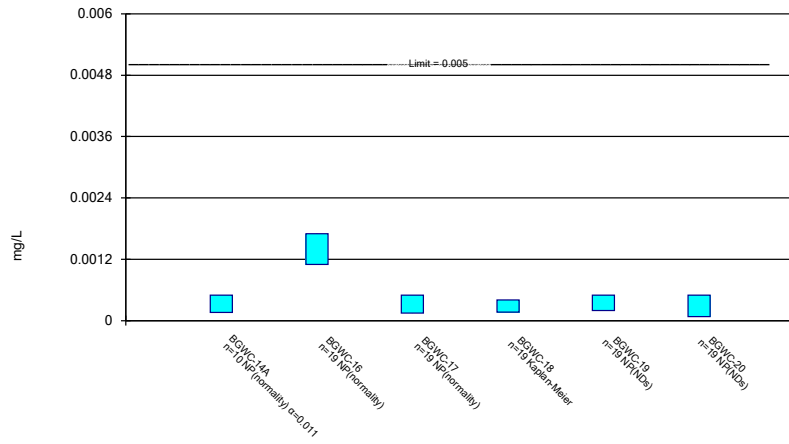
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Constituent: Beryllium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

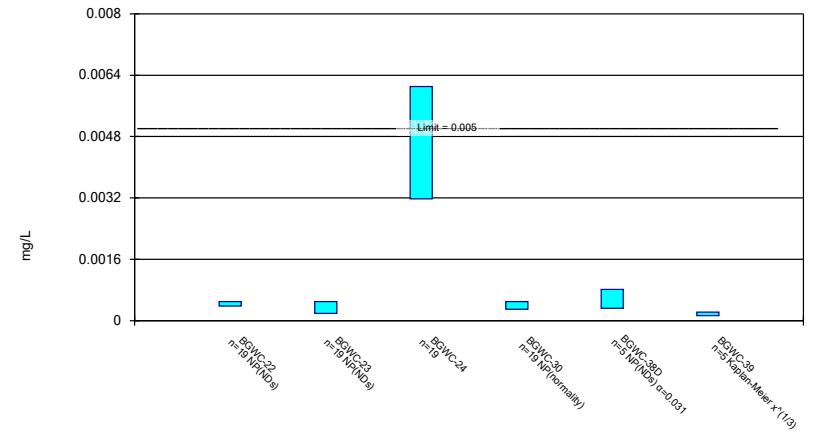
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Constituent: Cadmium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

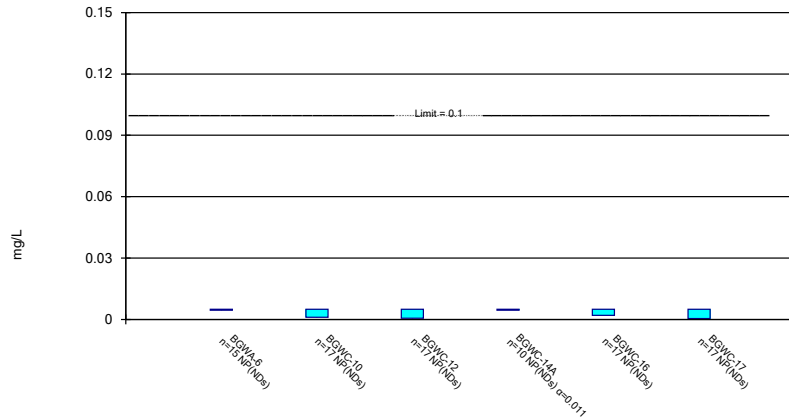
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Constituent: Cadmium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

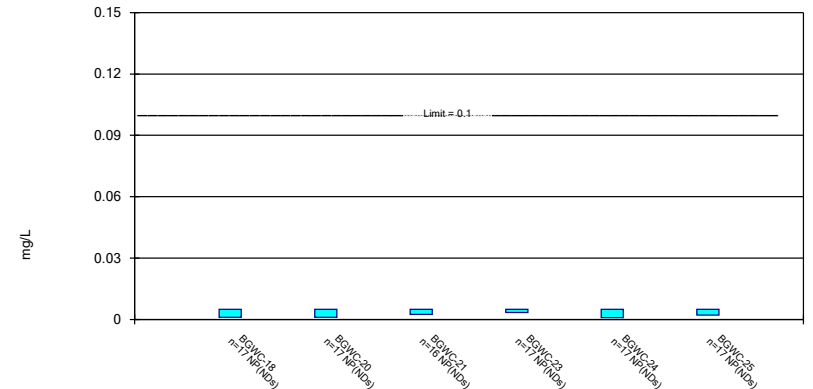
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Constituent: Chromium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

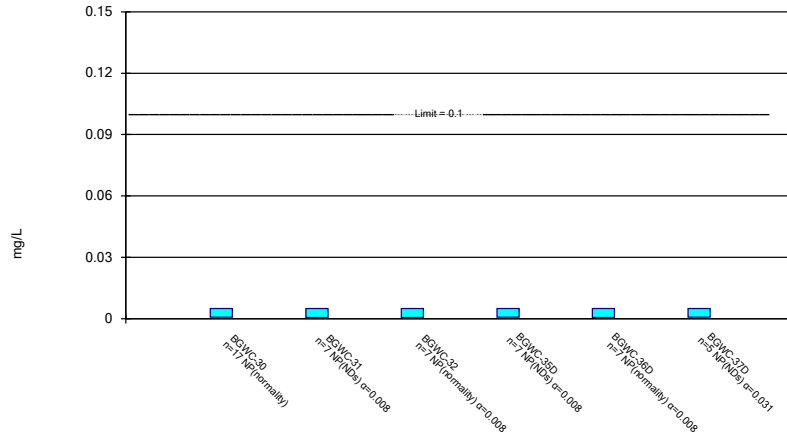
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Constituent: Chromium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

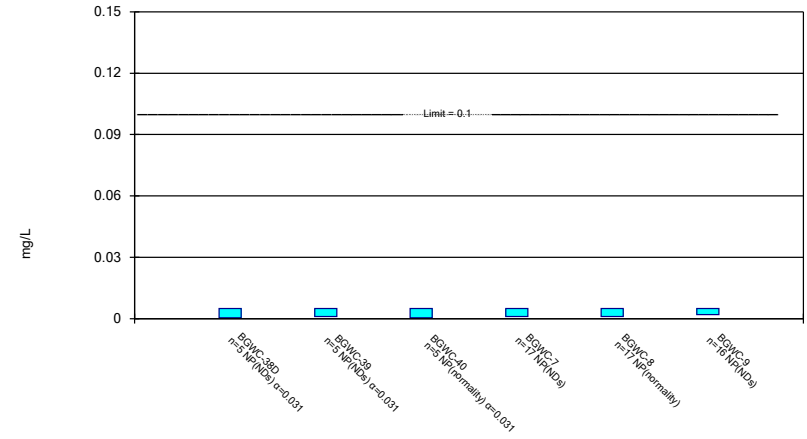
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

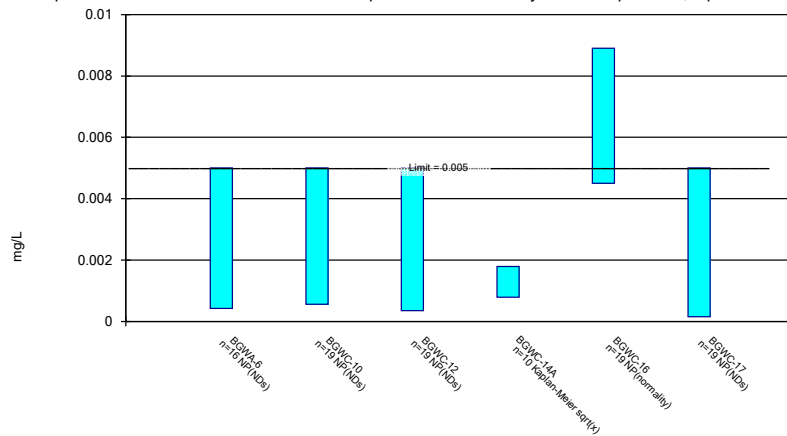
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Constituent: Chromium Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

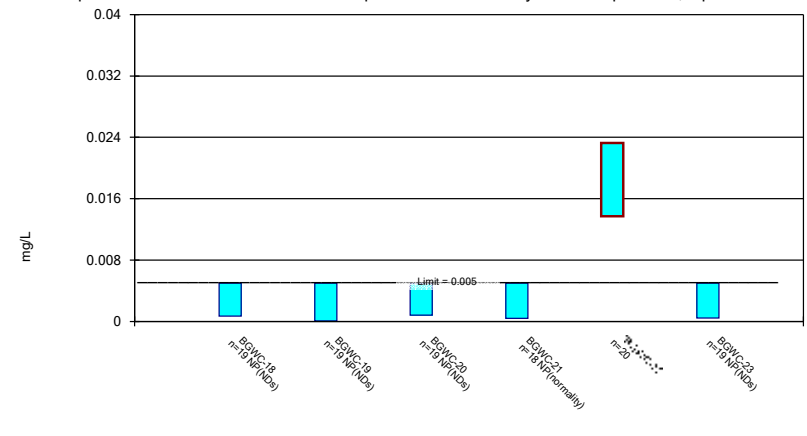
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Constituent: Cobalt Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

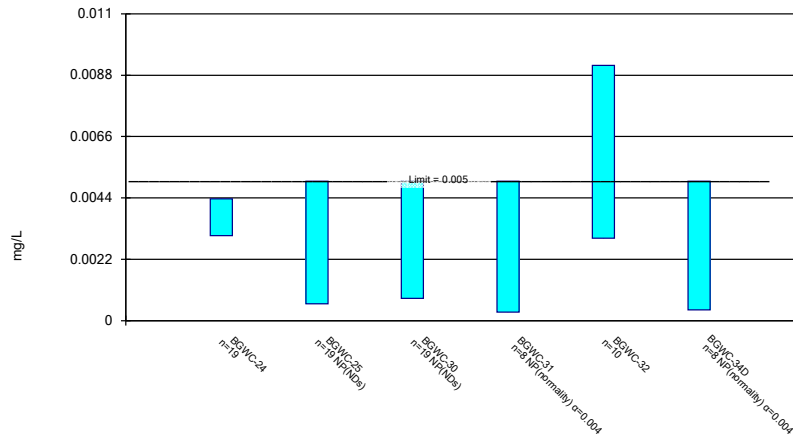
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

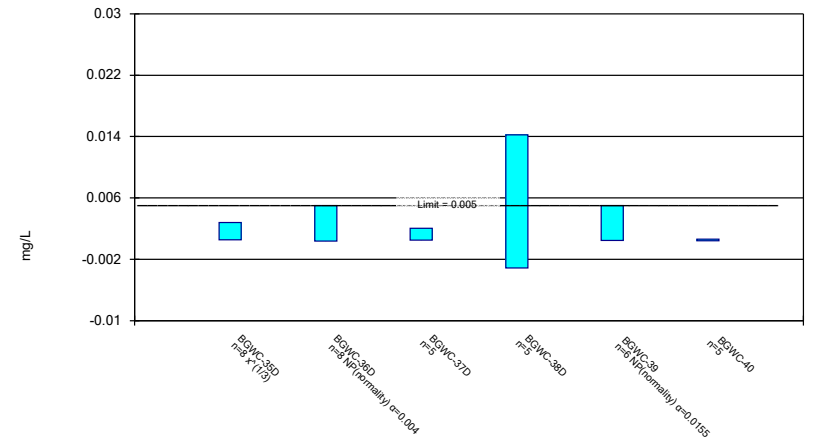
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

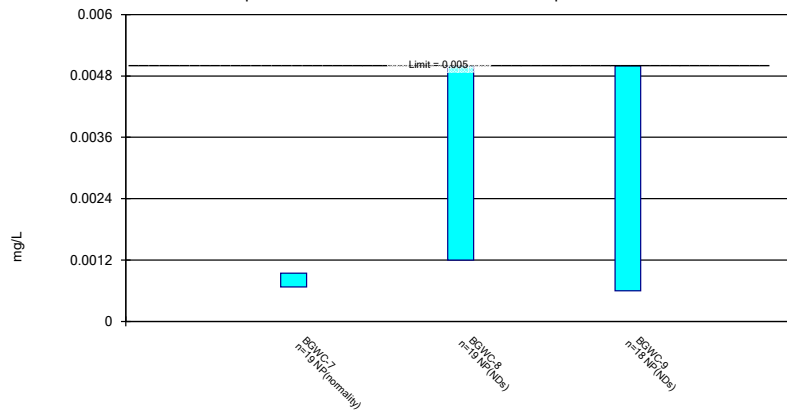
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

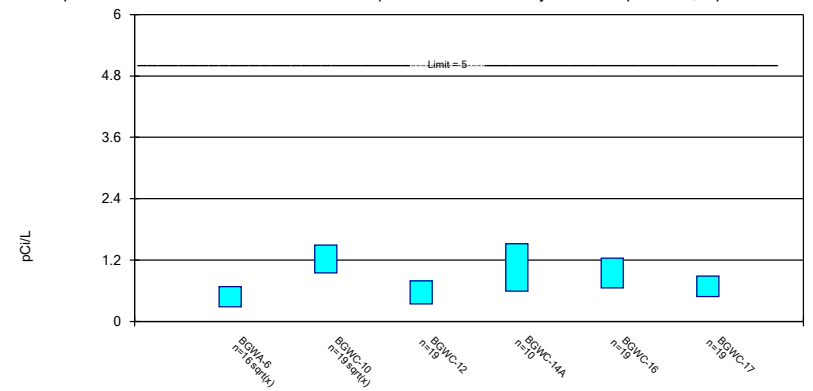
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

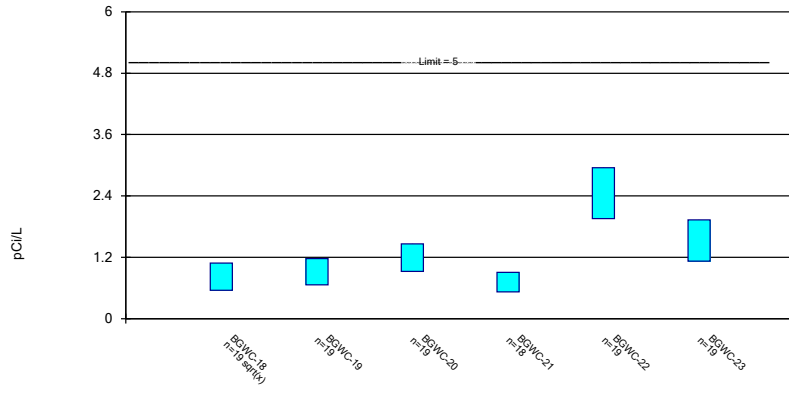
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

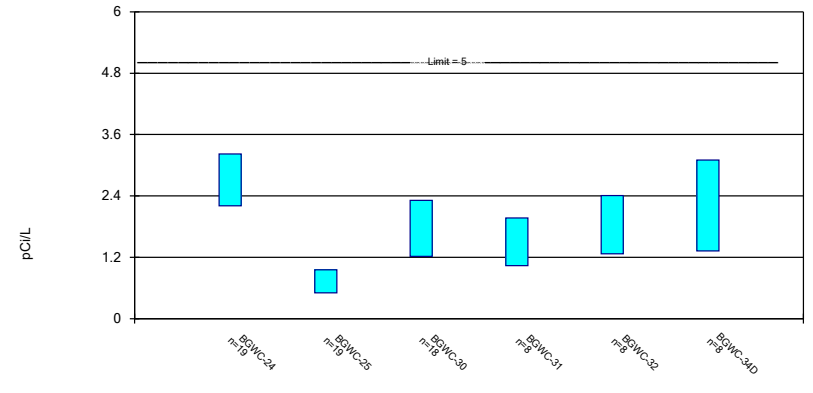
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

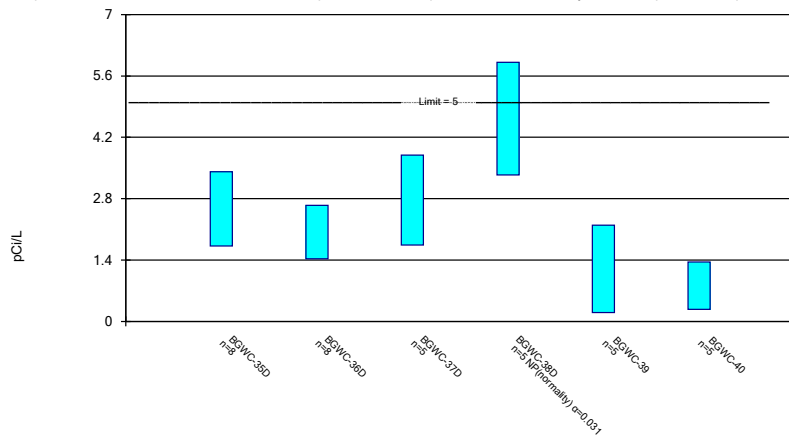
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

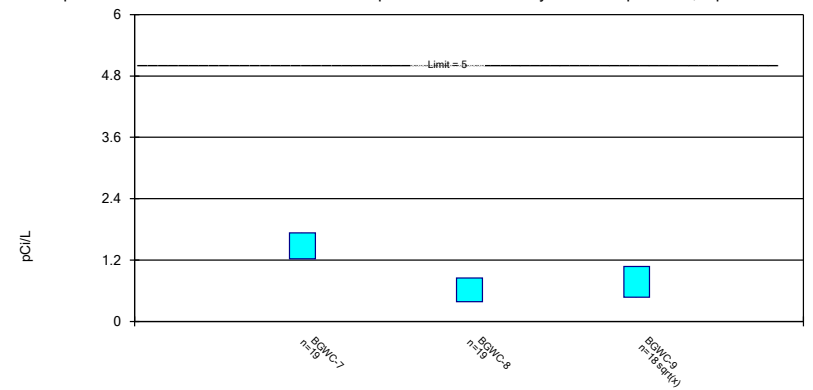
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

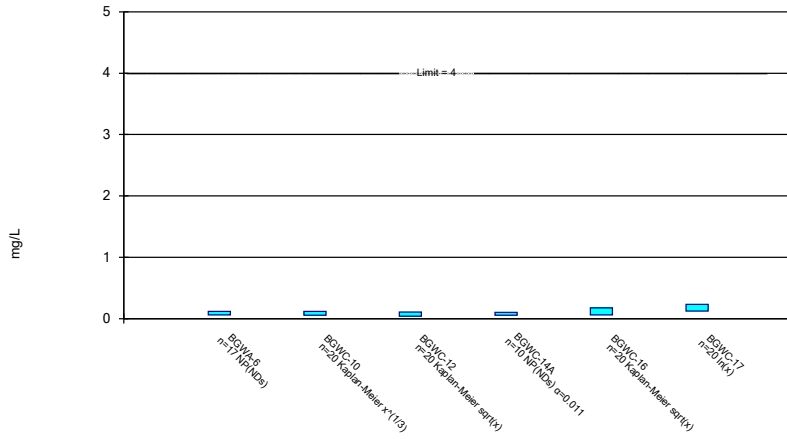
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

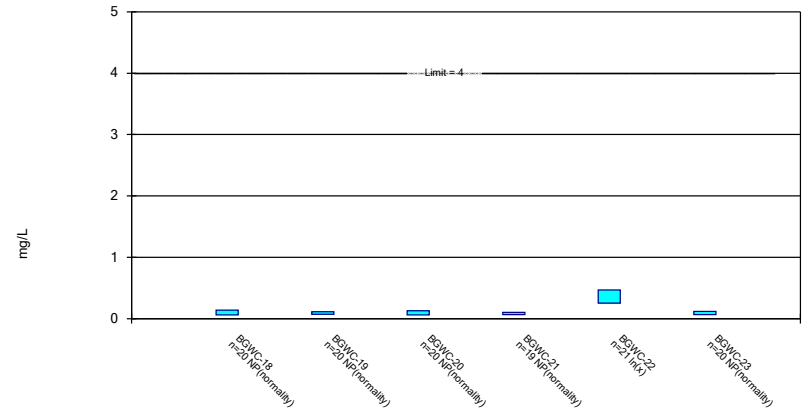
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

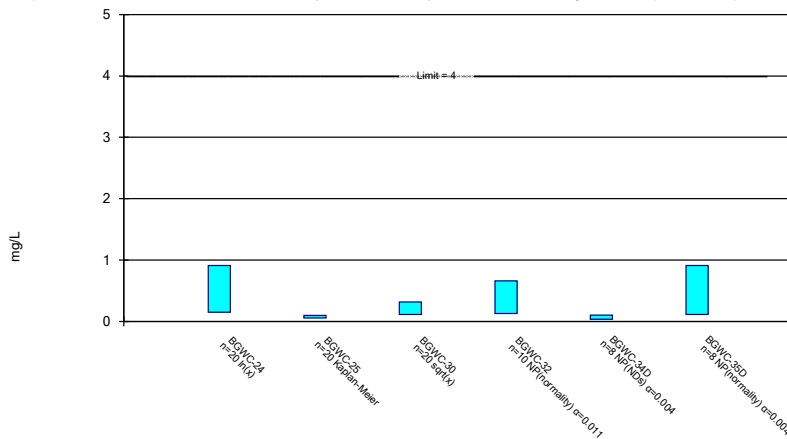
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

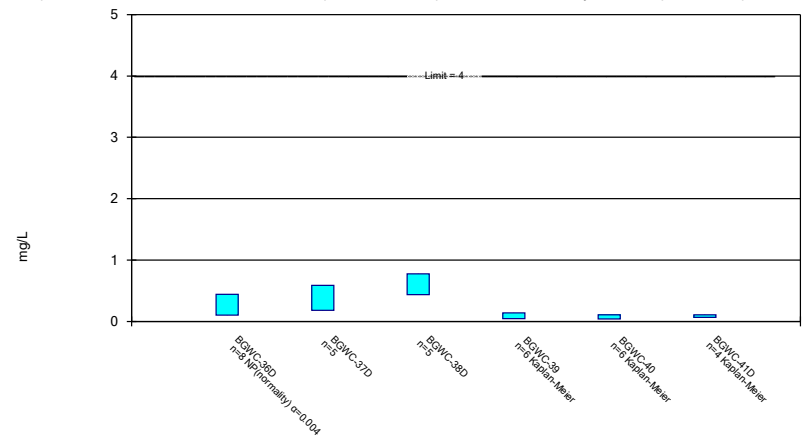
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

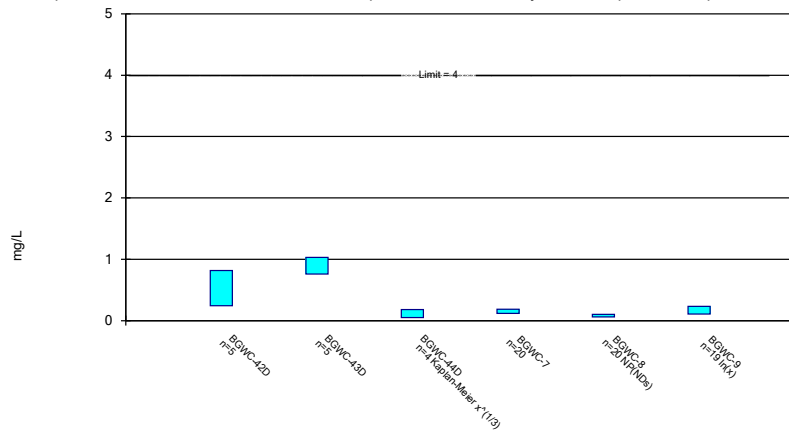
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:05 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

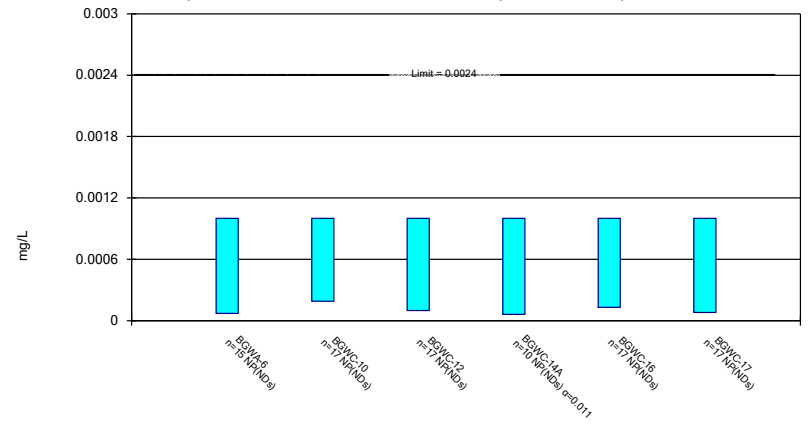
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

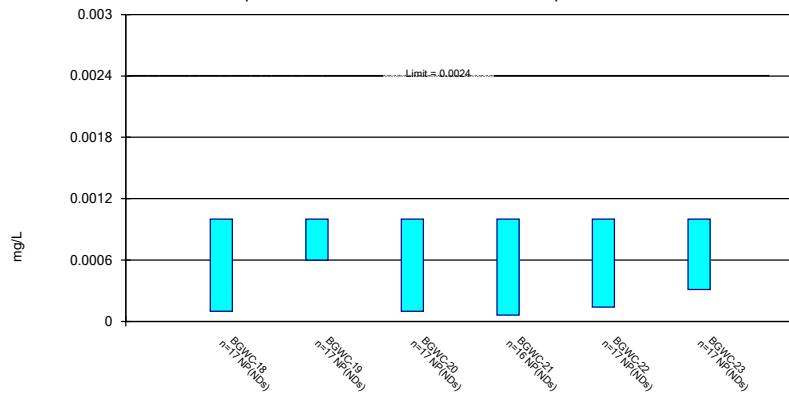
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

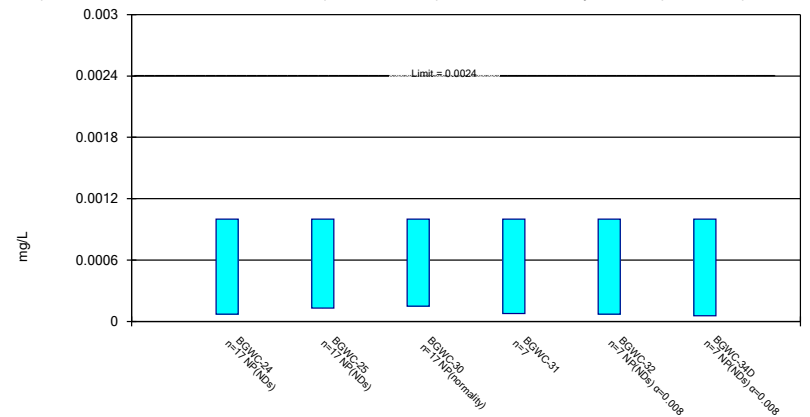
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

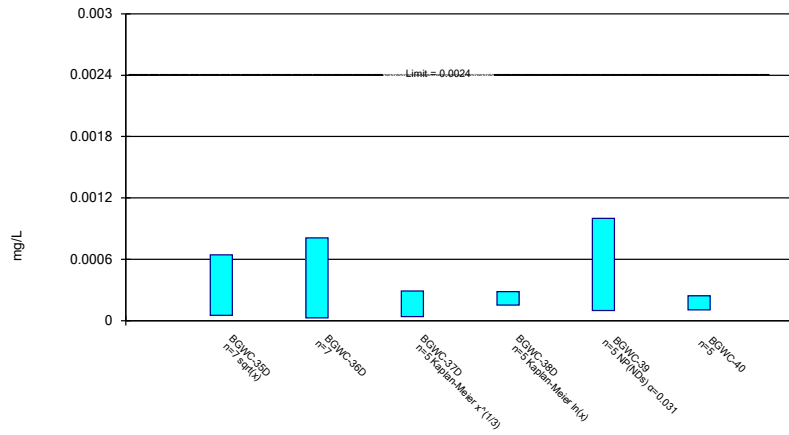
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

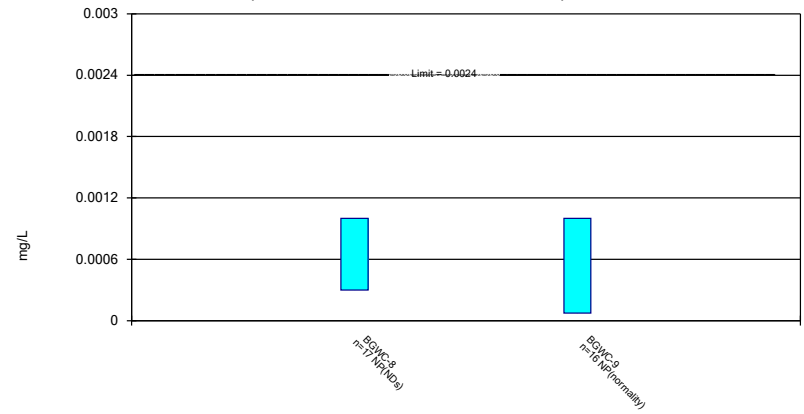
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/17/2021 1:05 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

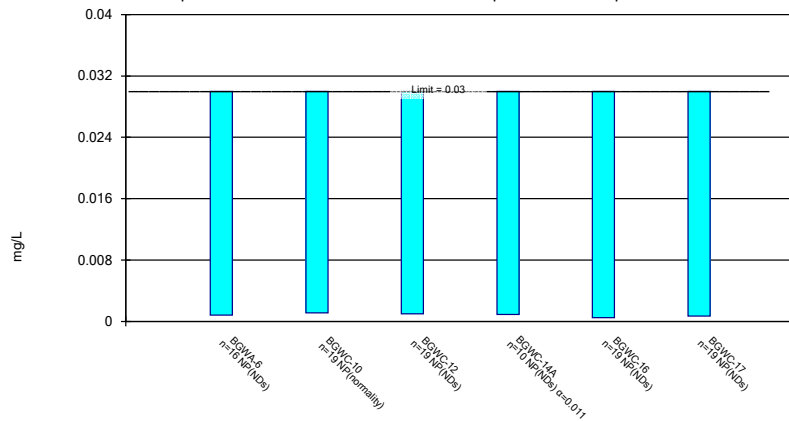
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

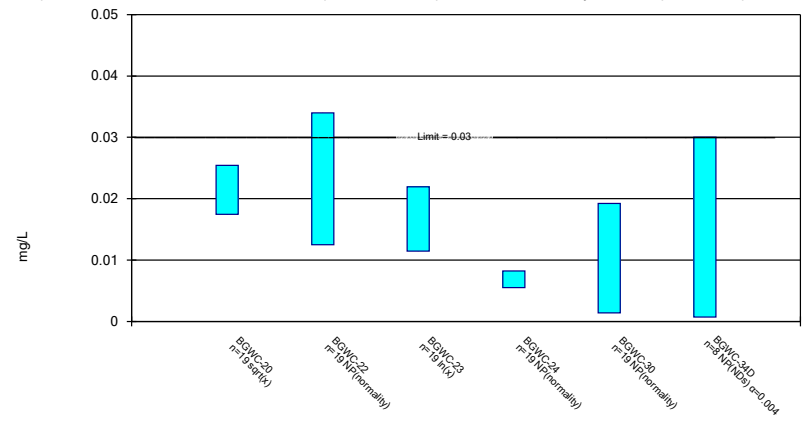
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lithium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

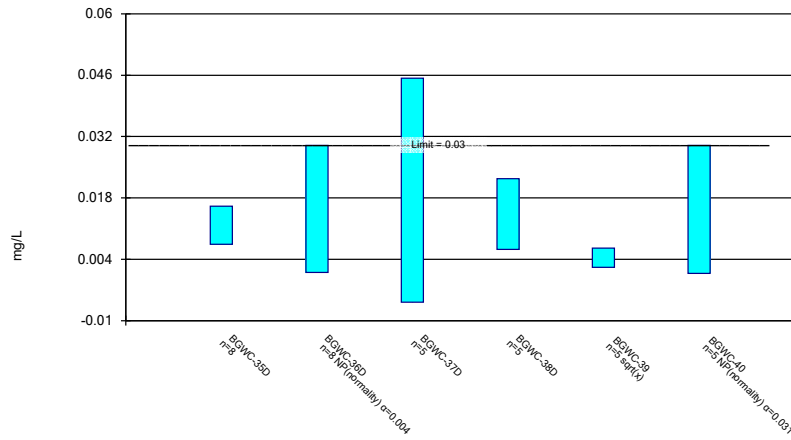
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

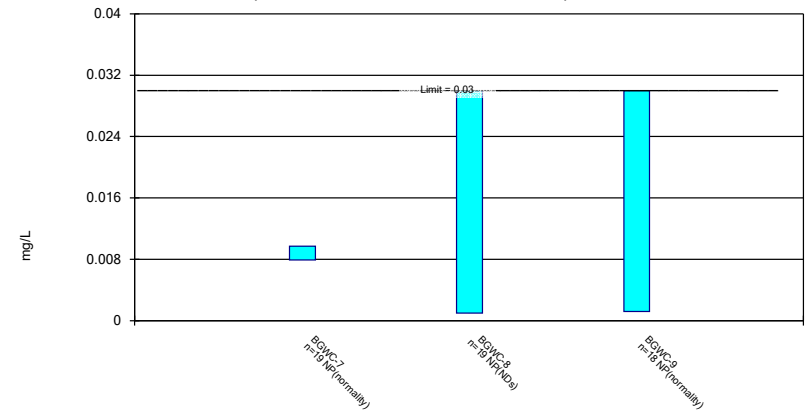
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

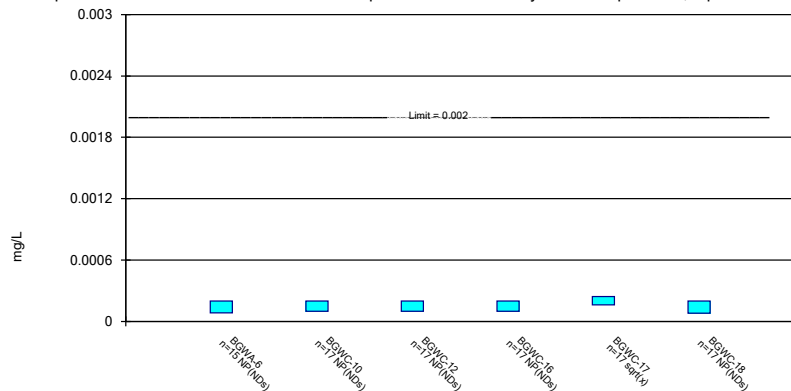
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

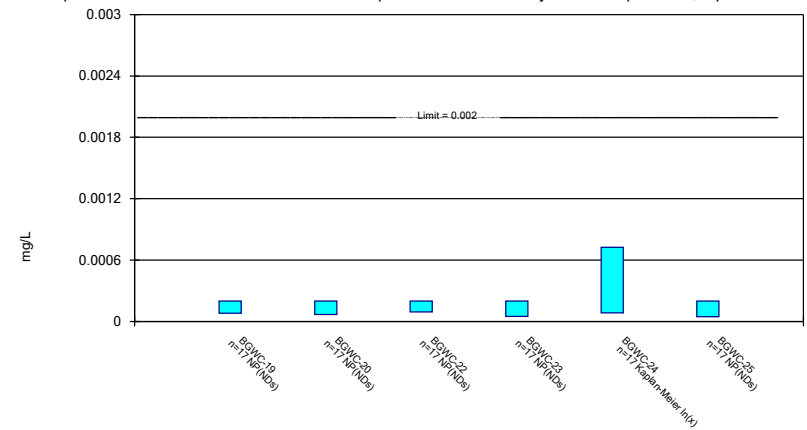
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

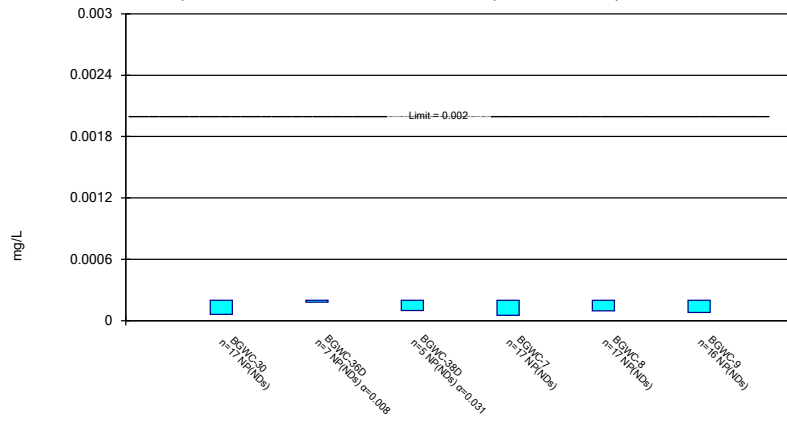
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

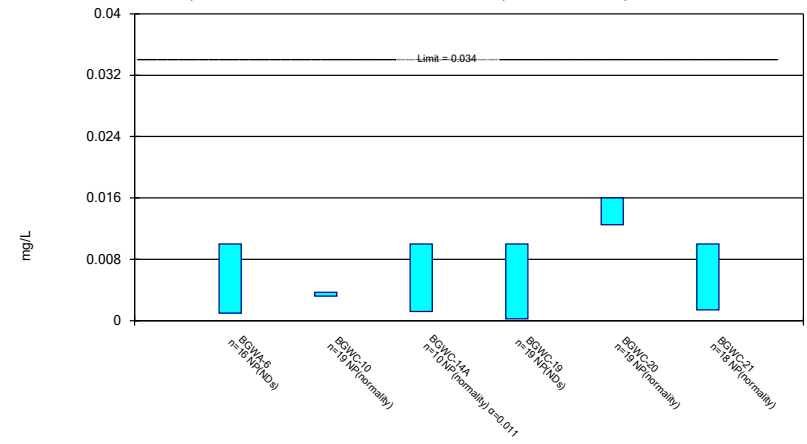
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

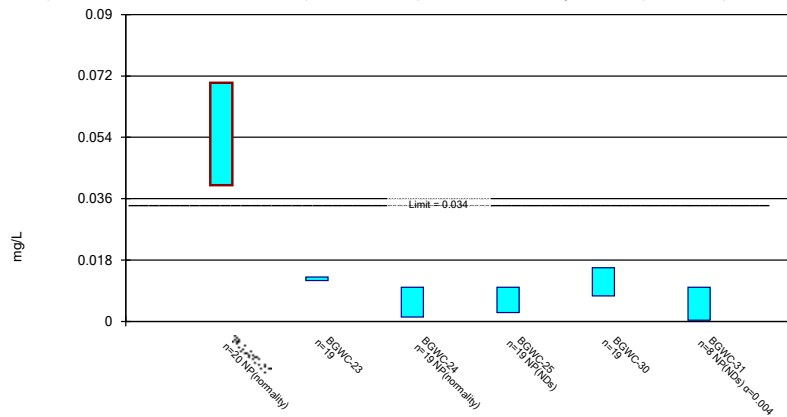
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

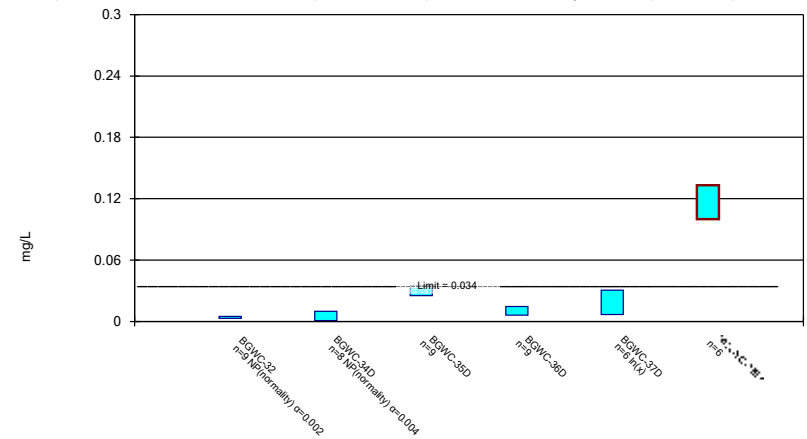
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

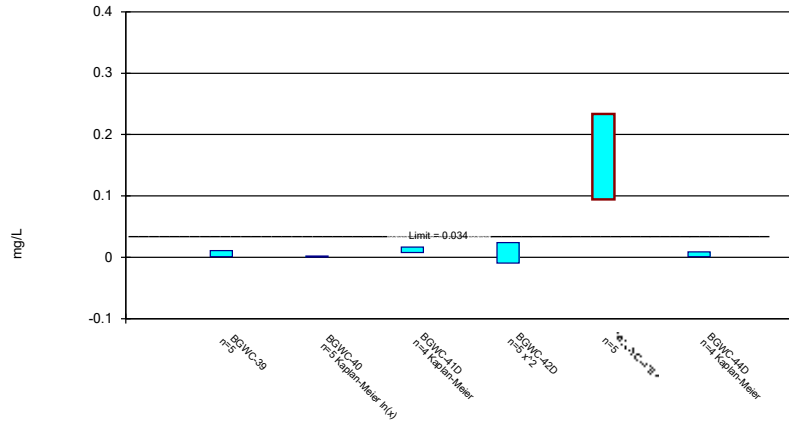
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

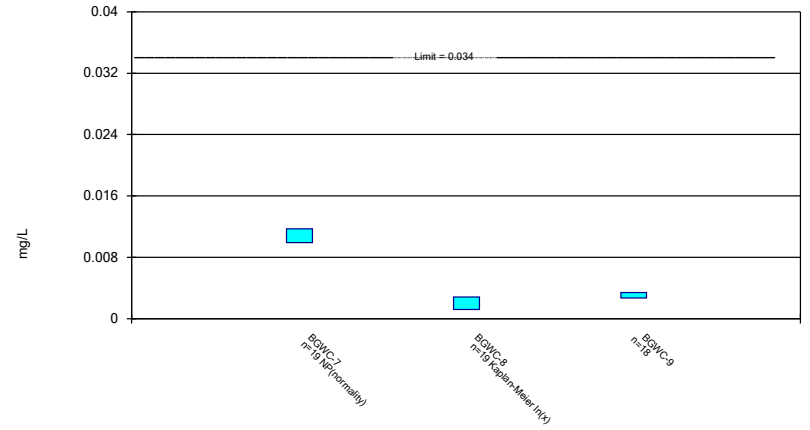
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

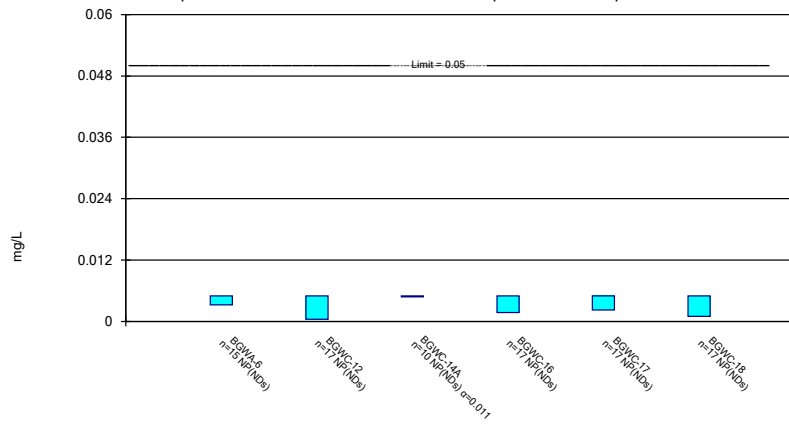
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

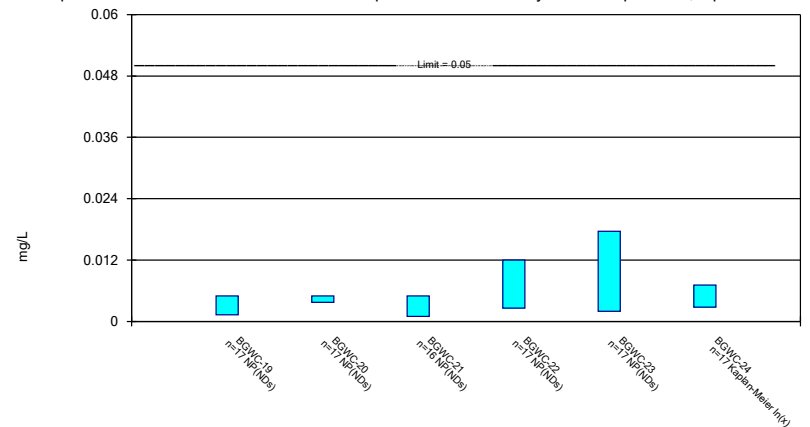
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

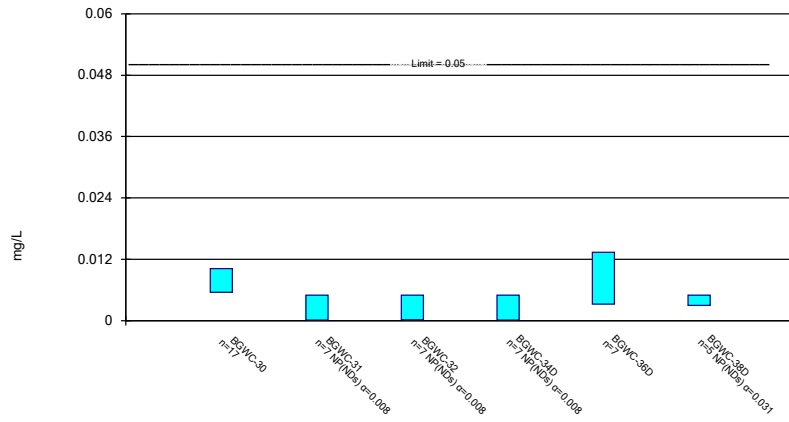
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

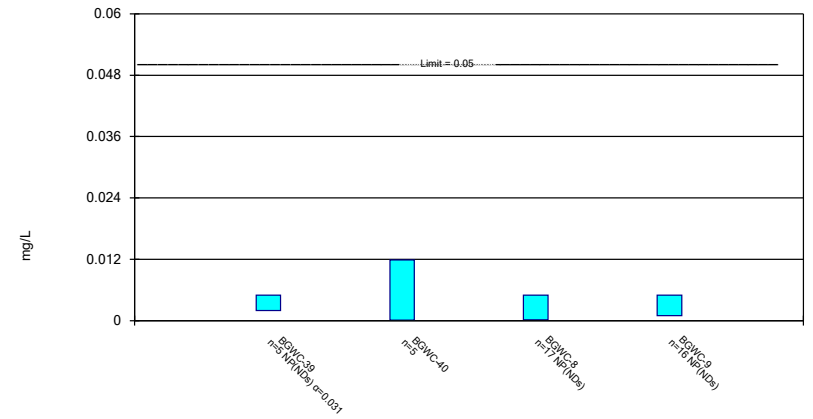
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

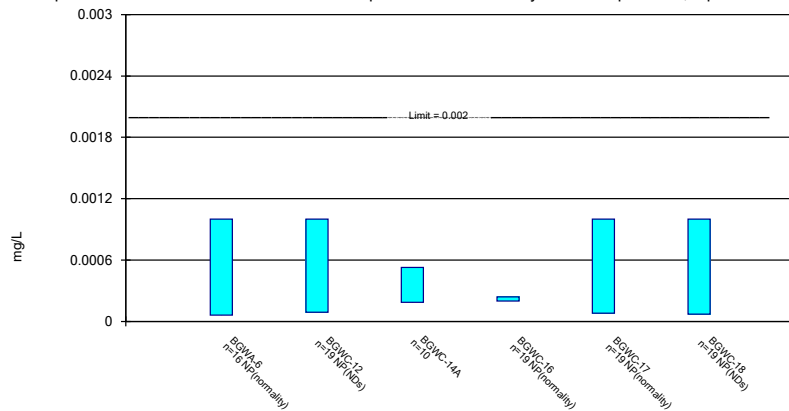
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

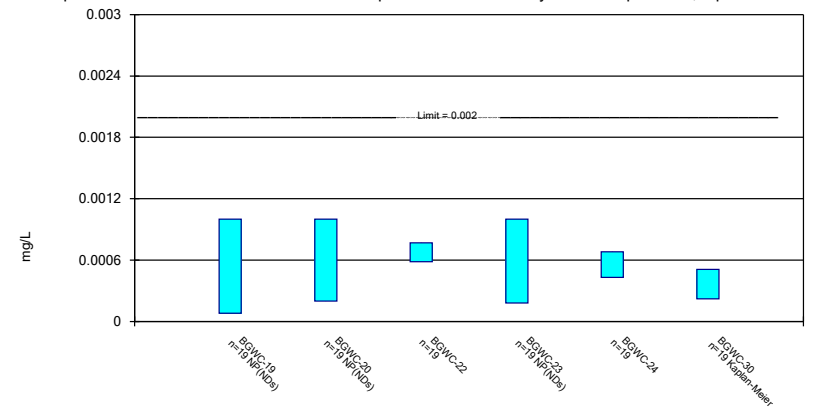
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

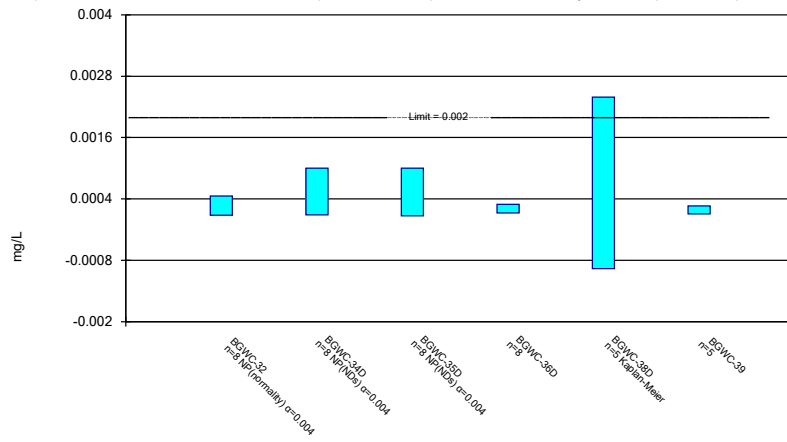
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

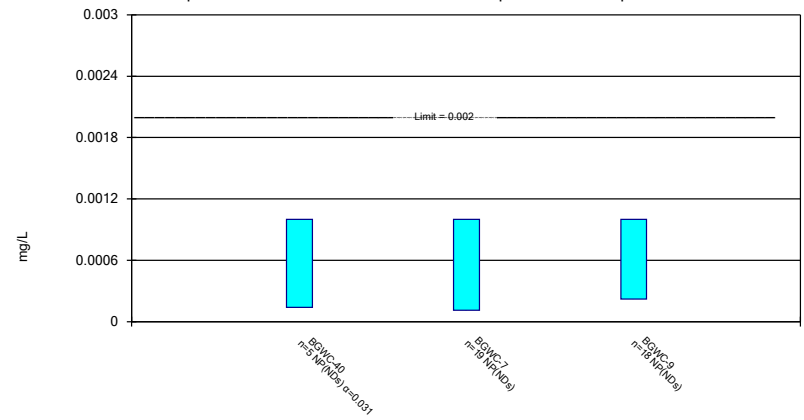
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 5/17/2021 1:06 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

FIGURE I.

Federal Confidence Intervals - Significant Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.006	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.1	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	BGWC-10	0.003	0.0022	0.006	No	15	0.002947	0.0002066	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-14A	0.003	0.00061	0.006	No	10	0.002491	0.001076	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	BGWC-16	0.003	0.0004	0.006	No	15	0.002827	0.0006713	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-17	0.003	0.0002	0.006	No	15	0.002813	0.000723	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-19	0.003	0.0005	0.006	No	15	0.002833	0.0006455	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-20	0.003	0.0014	0.006	No	15	0.002727	0.0007411	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-22	0.003	0.0023	0.006	No	15	0.002712	0.0007297	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-23	0.003	0.0009	0.006	No	15	0.002516	0.001008	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-24	0.003	0.00048	0.006	No	15	0.002656	0.0009081	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-25	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-31	0.003	0.00038	0.006	No	5	0.002476	0.001172	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-32	0.003	0.00036	0.006	No	5	0.00195	0.001438	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-34D	0.003	0.00049	0.006	No	5	0.002056	0.001297	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-35D	0.003	0.00064	0.006	No	5	0.00206	0.001287	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-36D	0.003	0.00096	0.006	No	5	0.002592	0.0009123	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-37D	0.003	0.00041	0.006	No	5	0.002322	0.001124	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-38D	0.001767	-0.00008674	0.006	No	5	0.001704	0.001276	40	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	BGWC-40	0.003	0.0005	0.006	No	5	0.0025	0.001118	80	Kaplan-Meier	No	0.031	NP (NDs)
Antimony (mg/L)	BGWC-7	0.003	0.0015	0.006	No	15	0.00246	0.0009775	73.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-8	0.003	0.00059	0.006	No	15	0.002497	0.001043	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	BGWC-9	0.003	0.00075	0.006	No	14	0.002459	0.001079	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWA-6	0.005	0.00095	0.01	No	16	0.003279	0.002039	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-10	0.007178	0.005528	0.01	No	19	0.006353	0.001409	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-12	0.005	0.0006	0.01	No	19	0.002439	0.00205	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-14A	0.005	0.0011	0.01	No	10	0.00391	0.001774	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	BGWC-16	0.005	0.00073	0.01	No	19	0.00301	0.002168	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-17	0.005	0.0008	0.01	No	19	0.003489	0.00205	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-18	0.005	0.00066	0.01	No	19	0.003437	0.002119	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-19	0.005	0.00067	0.01	No	19	0.002977	0.002204	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	BGWC-20	0.005	0.0011	0.01	No	19	0.002701	0.001853	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-21	0.005	0.00079	0.01	No	18	0.0028	0.00206	44.44	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-22	0.003232	0.001821	0.01	No	19	0.002526	0.001205	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-23	0.003132	0.001656	0.01	No	19	0.002394	0.001261	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-24	0.006324	0.00317	0.01	No	19	0.004747	0.002693	10.53	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-25	0.003101	0.002067	0.01	No	19	0.002584	0.0008827	5.263	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-30	0.005	0.00064	0.01	No	19	0.002591	0.001908	31.58	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-31	0.005226	0.003449	0.01	No	8	0.004338	0.0008383	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-32	0.003242	0.000653	0.01	No	8	0.001891	0.001499	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	BGWC-34D	0.01868	0.01472	0.01	Yes	10	0.0167	0.002214	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-35D	0.003125	0.0009896	0.01	No	8	0.002058	0.001007	0	None	No	0.01	Param.
Arsenic (mg/L)	BGWC-36D	0.001503	0.0004669	0.01	No	8	0.002489	0.002139	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	BGWC-37D	0.04467	0.008529	0.01	No	5	0.0266	0.01078	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-38D	0.005353	0.0005847	0.01	No	5	0.00254	0.001641	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-39	0.005	0.00055	0.01	No	5	0.00363	0.002011	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	BGWC-40	0.002628	-0.0002748	0.01	No	5	0.002706	0.002224	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	BGWC-7	0.003055	0.001912	0.01	No	19	0.002542	0.001048	10.53	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	BGWC-8	0.005	0.00047	0.01	No	19	0.002293	0.002138	36.84	None	No	0.01	NP (normality)
Arsenic (mg/L)	BGWC-9	0.00319	0.00211	0.01	No	18	0.00265	0.0008926	5.556	None	No	0.01	Param.
Barium (mg/L)	BGWA-6	0.0144	0.0114	2	No	16	0.01484	0.01	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-10	0.06063	0.04703	2	No	19	0.05421	0.01226	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-12	0.03516	0.0294	2	No	19	0.03228	0.004913	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-14A	0.04321	0.03319	2	No	10	0.0382	0.005613	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-16	0.03012	0.02712	2	No	19	0.02867	0.002664	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	BGWC-17	0.01905	0.01588	2	No	19	0.01746	0.00271	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-18	0.03567	0.03023	2	No	19	0.03305	0.004747	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	BGWC-19	0.03866	0.03092	2	No	19	0.03479	0.006612	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-20	0.03406	0.03046	2	No	19	0.03226	0.003075	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-21	0.04545	0.03429	2	No	18	0.03987	0.00922	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-22	0.09254	0.08314	2	No	19	0.08756	0.008615	0	None	x^2	0.01	Param.
Barium (mg/L)	BGWC-23	0.11	0.084	2	No	19	0.09761	0.01497	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	BGWC-24	0.1141	0.0845	2	No	19	0.09929	0.02527	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-25	0.02585	0.01824	2	No	19	0.02266	0.006985	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-30	0.192	0.074	2	No	19	0.1266	0.06091	0	None	No	0.01	NP (normality)
Barium (mg/L)	BGWC-31	0.055	0.032	2	No	8	0.03925	0.007046	0	None	No	0.004	NP (normality)
Barium (mg/L)	BGWC-32	0.1335	0.08823	2	No	8	0.1109	0.02136	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-34D	0.04844	0.03331	2	No	8	0.04088	0.00714	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-35D	0.11	0.06774	2	No	8	0.08888	0.01994	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-36D	0.09071	0.0615	2	No	8	0.07588	0.01541	0	None	ln(x)	0.01	Param.
Barium (mg/L)	BGWC-37D	0.1207	0.07892	2	No	5	0.0998	0.01246	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-38D	0.2664	0.04482	2	No	5	0.1556	0.06611	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-39	0.09667	0.02733	2	No	5	0.062	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-40	0.06504	0.03936	2	No	5	0.0522	0.007662	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-7	0.04002	0.03429	2	No	19	0.03716	0.004895	0	None	No	0.01	Param.
Barium (mg/L)	BGWC-8	0.03085	0.02684	2	No	19	0.02804	0.006046	0	None	x^3	0.01	Param.
Barium (mg/L)	BGWC-9	0.03239	0.02767	2	No	18	0.03003	0.003898	0	None	No	0.01	Param.
Beryllium (mg/L)	BGWC-12	0.0005	0.000076	0.004	No	17	0.0004484	0.0001459	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-16	0.0005	0.00011	0.004	No	17	0.0003147	0.0002034	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-17	0.0005	0.000065	0.004	No	17	0.0004482	0.0001463	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-18	0.0005	0.000076	0.004	No	17	0.0003504	0.0002091	64.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-19	0.0005	0.00008	0.004	No	17	0.0003732	0.0002026	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-22	0.0005	0.000099	0.004	No	17	0.0003134	0.0002045	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-23	0.0005	0.000054	0.004	No	17	0.0004738	0.0001082	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-24	0.0005	0.00013	0.004	No	17	0.0003884	0.0001791	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	BGWC-36D	0.0005	0.00007	0.004	No	7	0.0004386	0.0001625	85.71	None	No	0.008	NP (NDs)
Beryllium (mg/L)	BGWC-38D	0.0005	0.00006	0.004	No	5	0.0003296	0.0002335	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	BGWC-39	0.0005	0.000079	0.004	No	5	0.0004158	0.0001883	80	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-14A	0.0005	0.00016	0.005	No	10	0.000335	0.0001745	50	None	No	0.011	NP (normality)
Cadmium (mg/L)	BGWC-16	0.0017	0.0011	0.005	No	19	0.001416	0.0002911	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-17	0.0005	0.00015	0.005	No	19	0.0003179	0.0001814	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-18	0.0004049	0.0001676	0.005	No	19	0.0004133	0.0001907	42.11	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	BGWC-19	0.0005	0.0002	0.005	No	19	0.0004421	0.0001387	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-20	0.0005	0.00008	0.005	No	19	0.0004779	0.00009635	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-22	0.0005	0.00038	0.005	No	19	0.0004495	0.000111	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-23	0.0005	0.00019	0.005	No	19	0.0004837	0.00007112	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	BGWC-24	0.00611	0.003177	0.005	No	19	0.004643	0.002504	0	None	No	0.01	Param.
Cadmium (mg/L)	BGWC-30	0.0005	0.0003	0.005	No	19	0.0004042	0.000142	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	BGWC-38D	0.00081	0.00032	0.005	No	5	0.000526	0.0001769	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	BGWC-39	0.0002183	0.0001329	0.005	No	5	0.000304	0.0001802	40	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	BGWA-6	0.005	0.0044	0.1	No	15	0.004727	0.0009059	86.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-10	0.005	0.0011	0.1	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-12	0.005	0.00058	0.1	No	17	0.003684	0.002104	70.59	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-14A	0.005	0.005	0.1	No	10	0.0071	0.006641	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	BGWC-16	0.005	0.0019	0.1	No	17	0.004565	0.001245	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-17	0.005	0.00044	0.1	No	17	0.004461	0.001523	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-18	0.005	0.0011	0.1	No	17	0.004248	0.001679	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-20	0.005	0.00096	0.1	No	17	0.003496	0.001892	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-21	0.005	0.0025	0.1	No	16	0.004557	0.00127	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-23	0.005	0.0033	0.1	No	17	0.004194	0.001608	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-24	0.005	0.0009	0.1	No	17	0.004235	0.001706	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-25	0.005	0.0021	0.1	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	BGWC-30	0.005	0.00073	0.1	No	17	0.002054	0.001972	29.41	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-31	0.005	0.00056	0.1	No	7	0.003186	0.002269	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-32	0.005	0.00057	0.1	No	7	0.002587	0.002266	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-35D	0.005	0.00067	0.1	No	7	0.003213	0.002233	57.14	None	No	0.008	NP (NDs)
Chromium (mg/L)	BGWC-36D	0.005	0.00057	0.1	No	7	0.002534	0.002311	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	BGWC-37D	0.005	0.00068	0.1	No	5	0.003272	0.002366	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-38D	0.005	0.00042	0.1	No	5	0.003704	0.002012	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-39	0.005	0.001	0.1	No	5	0.0042	0.001789	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	BGWC-40	0.005	0.00043	0.1	No	5	0.001528	0.001948	20	None	No	0.031	NP (normality)
Chromium (mg/L)	BGWC-7	0.005	0.00095	0.1	No	17	0.004242	0.00169	82.35	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	BGWC-8	0.005	0.001	0.1	No	17	0.00593	0.01482	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	BGWC-9	0.005	0.002	0.1	No	16	0.004812	0.00075	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWA-6	0.005	0.00042	0.006	No	16	0.003336	0.002226	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-10	0.005	0.00056	0.006	No	19	0.004035	0.001921	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-12	0.005	0.00035	0.006	No	19	0.00284	0.002341	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-14A	0.001787	0.0007838	0.006	No	10	0.002481	0.001794	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	BGWC-16	0.0089	0.0045	0.006	No	19	0.0062	0.002046	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-17	0.005	0.00015	0.006	No	19	0.004745	0.001113	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-18	0.005	0.00071	0.006	No	19	0.003833	0.002011	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-19	0.005	0.000072	0.006	No	19	0.004741	0.001131	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-20	0.005	0.0008	0.006	No	19	0.004284	0.001701	84.21	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-21	0.005	0.00041	0.006	No	18	0.002822	0.002252	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-22	0.02326	0.01373	0.006	Yes	20	0.0185	0.008396	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-23	0.005	0.00046	0.006	No	19	0.003617	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-24	0.004365	0.003046	0.006	No	19	0.003705	0.001126	10.53	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-25	0.005	0.0006	0.006	No	19	0.004517	0.001449	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-30	0.005	0.0008	0.006	No	19	0.003006	0.002167	52.63	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-31	0.005	0.00031	0.006	No	8	0.001605	0.0021	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-32	0.009157	0.002953	0.006	No	10	0.006055	0.003477	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-34D	0.005	0.00039	0.006	No	8	0.001714	0.002044	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-35D	0.002784	0.0005469	0.006	No	8	0.001622	0.00143	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	BGWC-36D	0.005	0.00038	0.006	No	8	0.001752	0.002018	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	BGWC-37D	0.002024	0.0004958	0.006	No	5	0.00126	0.0004561	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-38D	0.01423	-0.003147	0.006	No	5	0.00554	0.005184	0	None	No	0.01	Param.
Cobalt (mg/L)	BGWC-39	0.005	0.00047	0.006	No	6	0.00323	0.002186	50	None	No	0.0155	NP (normality)
Cobalt (mg/L)	BGWC-40	0.0006256	0.0004184	0.006	No	5	0.000522	0.000061810		None	No	0.01	Param.
Cobalt (mg/L)	BGWC-7	0.00094	0.00067	0.006	No	19	0.001645	0.001783	21.05	None	No	0.01	NP (normality)
Cobalt (mg/L)	BGWC-8	0.005	0.0012	0.006	No	19	0.004036	0.00193	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	BGWC-9	0.005	0.0006	0.006	No	18	0.00423	0.001773	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BGWA-6	0.6779	0.2858	5	No	16	0.5072	0.334	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-10	1.496	0.9507	5	No	19	1.25	0.5107	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-12	0.7903	0.342	5	No	19	0.5662	0.3828	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-14A	1.516	0.5886	5	No	10	1.052	0.5195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-16	1.235	0.6558	5	No	19	0.9452	0.4943	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-17	0.8851	0.4843	5	No	19	0.6847	0.3422	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-18	1.085	0.5517	5	No	19	0.8578	0.5222	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-19	1.173	0.6631	5	No	19	0.9182	0.4356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-20	1.461	0.9248	5	No	19	1.193	0.458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-21	0.9066	0.5258	5	No	18	0.7162	0.3147	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-22	2.954	1.955	5	No	19	2.455	0.8534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-23	1.931	1.126	5	No	19	1.528	0.6878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-24	3.22	2.209	5	No	19	2.715	0.8635	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-25	0.9545	0.5019	5	No	19	0.7282	0.3865	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-30	2.315	1.219	5	No	18	1.767	0.906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-31	1.968	1.035	5	No	8	1.501	0.4399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-32	2.405	1.265	5	No	8	1.835	0.5378	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-34D	3.104	1.326	5	No	8	2.215	0.8384	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-35D	3.414	1.723	5	No	8	2.569	0.7977	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-36D	2.651	1.431	5	No	8	2.041	0.5753	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-37D	3.797	1.739	5	No	5	2.768	0.6139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-38D	5.91	3.34	5	No	5	4.916	1.349	0	None	No	0.031	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BGWC-39	2.195	0.2017	5	No	5	1.198	0.5947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-40	1.354	0.2759	5	No	5	0.8148	0.3216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-7	1.729	1.223	5	No	19	1.476	0.432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-8	0.8464	0.3841	5	No	19	0.6152	0.3948	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BGWC-9	1.074	0.4736	5	No	18	0.8216	0.5643	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWA-6	0.12	0.06	4	No	17	0.08647	0.02805	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-10	0.1194	0.05452	4	No	20	0.1133	0.07275	35	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-12	0.1093	0.03989	4	No	20	0.1056	0.06623	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-14A	0.1	0.055	4	No	10	0.0833	0.02182	60	Kaplan-Meier	No	0.011	NP (NDs)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	BGWC-16	0.1726	0.06212	4	No	20	0.143	0.1185	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-17	0.2304	0.1207	4	No	20	0.1996	0.1466	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-18	0.14	0.06	4	No	20	0.1312	0.1047	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-19	0.11	0.07	4	No	20	0.1212	0.1191	30	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-20	0.13	0.06	4	No	20	0.1238	0.1416	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-21	0.1	0.066	4	No	19	0.082	0.02731	47.37	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-22	0.4654	0.254	4	No	21	0.4086	0.304	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-23	0.12	0.066	4	No	20	0.1874	0.2304	15	None	No	0.01	NP (normality)
Fluoride (mg/L)	BGWC-24	0.9095	0.1481	4	No	20	0.9855	1.156	5	None	ln(x)	0.01	Param.
Fluoride (mg/L)	BGWC-25	0.09695	0.05548	4	No	20	0.09325	0.03155	45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-30	0.3164	0.1097	4	No	20	0.2391	0.2139	15	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	BGWC-32	0.66	0.13	4	No	10	0.3897	0.3932	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	BGWC-34D	0.1	0.035	4	No	8	0.09188	0.02298	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	BGWC-35D	0.91	0.11	4	No	8	0.2625	0.2659	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-36D	0.44	0.1	4	No	8	0.1775	0.1177	12.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	BGWC-37D	0.585	0.179	4	No	5	0.382	0.1211	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-38D	0.7759	0.4361	4	No	5	0.606	0.1014	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-39	0.1361	0.04475	4	No	6	0.09433	0.03542	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-40	0.1078	0.03715	4	No	6	0.092	0.02668	50	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-41D	0.1084	0.06761	4	No	4	0.091	0.0108	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	BGWC-42D	0.8149	0.2451	4	No	5	0.53	0.17	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-43D	1.031	0.7606	4	No	5	0.896	0.08081	0	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-44D	0.1811	0.05185	4	No	4	0.112	0.0325	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	BGWC-7	0.1855	0.1192	4	No	20	0.1524	0.05831	5	None	No	0.01	Param.
Fluoride (mg/L)	BGWC-8	0.1	0.061	4	No	20	0.07905	0.03141	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	BGWC-9	0.2321	0.1066	4	No	19	0.1971	0.1497	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BGWA-6	0.001	0.00007	0.015	No	15	0.0007567	0.0004182	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-10	0.001	0.00019	0.015	No	17	0.0009018	0.0002774	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-12	0.001	0.0001	0.015	No	17	0.0006263	0.0004267	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-14A	0.001	0.000062	0.015	No	10	0.0006301	0.0004777	60	None	No	0.011	NP (NDs)
Lead (mg/L)	BGWC-16	0.001	0.00013	0.015	No	17	0.0006076	0.0004325	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-17	0.001	0.000079	0.015	No	17	0.0009458	0.0002234	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-18	0.001	0.0001	0.015	No	17	0.0006336	0.0004521	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-19	0.001	0.0006	0.015	No	17	0.0009199	0.000247	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-20	0.001	0.0001	0.015	No	17	0.0008931	0.0003017	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-21	0.001	0.00006	0.015	No	16	0.0005928	0.000477	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-22	0.001	0.00014	0.015	No	17	0.0007468	0.0004083	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-23	0.001	0.00031	0.015	No	17	0.0009088	0.0002591	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-24	0.001	0.000071	0.015	No	17	0.0007016	0.0004333	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-25	0.001	0.00013	0.015	No	17	0.0006485	0.00041	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-30	0.001	0.00015	0.015	No	17	0.0005171	0.0004217	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	BGWC-31	0.0009994	0.00007664	0.015	No	7	0.000538	0.0003884	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-32	0.001	0.000072	0.015	No	7	0.0007403	0.0004437	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-34D	0.001	0.000054	0.015	No	7	0.0008649	0.0003576	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	BGWC-35D	0.000644	0.00005196	0.015	No	7	0.0003156	0.0003174	14.29	None	sqrt(x)	0.01	Param.
Lead (mg/L)	BGWC-36D	0.0008082	0.00002608	0.015	No	7	0.0004171	0.0003292	14.29	None	No	0.01	Param.
Lead (mg/L)	BGWC-37D	0.0002888	0.00003785	0.015	No	5	0.000311	0.0003952	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	BGWC-38D	0.0002827	0.0001508	0.015	No	5	0.000526	0.0004339	40	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	BGWC-39	0.001	0.0001	0.015	No	5	0.00082	0.0004025	80	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	BGWC-40	0.0002427	0.0001053	0.015	No	5	0.000174	0.00004099	0	None	No	0.01	Param.
Lead (mg/L)	BGWC-8	0.001	0.0003	0.015	No	17	0.0008053	0.0003638	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	BGWC-9	0.001	0.000075	0.015	No	16	0.0005168	0.0004521	43.75	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWA-6	0.03	0.00082	0.04	No	16	0.02818	0.007295	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-10	0.03	0.0011	0.04	No	19	0.01063	0.01358	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-12	0.03	0.001	0.04	No	19	0.01779	0.01471	57.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-14A	0.03	0.00091	0.04	No	10	0.01836	0.01502	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	BGWC-16	0.03	0.00049	0.04	No	19	0.02845	0.00677	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-17	0.03	0.00069	0.04	No	19	0.02846	0.006724	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-20	0.02542	0.01743	0.04	No	19	0.02176	0.007278	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-22	0.034	0.0125	0.04	No	19	0.02271	0.01037	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	BGWC-23	0.02195	0.01144	0.04	No	19	0.01847	0.01098	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	BGWC-24	0.0082	0.0055	0.04	No	19	0.009116	0.007437	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-30	0.0192	0.0014	0.04	No	19	0.01086	0.009003	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-34D	0.03	0.00068	0.04	No	8	0.02271	0.0135	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	BGWC-35D	0.0161	0.007403	0.04	No	8	0.01175	0.004101	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-36D	0.03	0.001	0.04	No	8	0.005662	0.009893	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	BGWC-37D	0.04535	-0.005831	0.04	No	5	0.01976	0.01527	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-38D	0.02239	0.006247	0.04	No	5	0.01432	0.004818	0	None	No	0.01	Param.
Lithium (mg/L)	BGWC-39	0.006576	0.00217	0.04	No	5	0.00416	0.001419	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	BGWC-40	0.03	0.00079	0.04	No	5	0.0125	0.01598	40	None	No	0.031	NP (normality)
Lithium (mg/L)	BGWC-7	0.0097	0.0079	0.04	No	19	0.009737	0.005	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	BGWC-8	0.03	0.001	0.04	No	19	0.02847	0.006653	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	BGWC-9	0.03	0.0012	0.04	No	18	0.01251	0.01436	38.89	None	No	0.01	NP (normality)
Mercury (mg/L)	BGWA-6	0.0002	0.000084	0.002	No	15	0.0001923	0.00002995	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-10	0.0002	0.0001	0.002	No	17	0.0001852	0.00004284	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-12	0.0002	0.0001	0.002	No	17	0.0001858	0.00004086	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-16	0.0002	0.000098	0.002	No	17	0.000194	0.00002474	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-17	0.0002435	0.0001598	0.002	No	17	0.0002047	0.00007247	11.76	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	BGWC-18	0.0002	0.000079	0.002	No	17	0.0001929	0.00002935	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-19	0.0002	0.00008	0.002	No	17	0.0001841	0.00004515	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-20	0.0002	0.000066	0.002	No	17	0.0001921	0.0000325	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-22	0.0002	0.000092	0.002	No	17	0.0001844	0.00004505	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-23	0.0002	0.00005	0.002	No	17	0.000182	0.00005082	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-24	0.0007232	0.00008443	0.002	No	17	0.001142	0.001614	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Mercury (mg/L)	BGWC-25	0.0002	0.000047	0.002	No	17	0.000191	0.00003711	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-30	0.0002	0.00006	0.002	No	17	0.0001418	0.00006564	52.94	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-36D	0.0002	0.00018	0.002	No	7	0.0001971	0.00000755	5.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	BGWC-38D	0.0002	0.0001	0.002	No	5	0.00018	0.00004472	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	BGWC-7	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-8	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	BGWC-9	0.0002	0.00008	0.002	No	16	0.0001925	0.00003	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWA-6	0.01	0.001	0.1	No	16	0.008829	0.003203	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-10	0.0037	0.0032	0.1	No	19	0.003679	0.000831	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-14A	0.01	0.0012	0.1	No	10	0.003474	0.003578	20	None	No	0.011	NP (normality)
Molybdenum (mg/L)	BGWC-19	0.01	0.00023	0.1	No	19	0.009486	0.002241	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-20	0.016	0.0125	0.1	No	19	0.01516	0.004259	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-21	0.01	0.0014	0.1	No	18	0.004289	0.003697	27.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-22	0.07	0.04	0.1	No	20	0.05519	0.01361	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-23	0.01305	0.012	0.1	No	19	0.01253	0.0008993	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-24	0.01	0.0013	0.1	No	19	0.005261	0.003956	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-25	0.01	0.0026	0.1	No	19	0.007024	0.003726	57.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	BGWC-30	0.01572	0.007431	0.1	No	19	0.01157	0.007075	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-31	0.01	0.00033	0.1	No	8	0.008791	0.003419	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BGWC-32	0.0048	0.003	0.1	No	9	0.003478	0.0005761	0	None	No	0.002	NP (normality)
Molybdenum (mg/L)	BGWC-34D	0.01	0.00078	0.1	No	8	0.002247	0.003159	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BGWC-35D	0.03465	0.02512	0.1	No	9	0.02989	0.004936	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-36D	0.01442	0.006182	0.1	No	9	0.0103	0.004265	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-37D	0.03049	0.006725	0.1	No	6	0.01663	0.01179	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-38D	0.1333	0.1	0.1	Yes	6	0.1167	0.01211	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-39	0.01098	0.001135	0.1	No	5	0.00606	0.002939	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-40	0.001748	0.0006314	0.1	No	5	0.004658	0.004883	40	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-41D	0.01661	0.00789	0.1	No	4	0.01225	0.002217	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-42D	0.0241	-0.009495	0.1	No	5	0.01402	0.007811	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	BGWC-43D	0.2337	0.0943	0.1	No	5	0.164	0.04159	0	None	No	0.01	Param.
Molybdenum (mg/L)	BGWC-44D	0.008521	0.0008123	0.1	No	4	0.006	0.003161	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	BGWC-7	0.0117	0.0099	0.1	No	19	0.01059	0.002696	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	BGWC-8	0.00281	0.001171	0.1	No	19	0.004783	0.003854	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Molybdenum (mg/L)	BGWC-9	0.003415	0.002708	0.1	No	18	0.003061	0.0005842	0	None	No	0.01	Param.
Selenium (mg/L)	BGWA-6	0.005	0.0032	0.05	No	15	0.004567	0.001266	86.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-12	0.005	0.0004	0.05	No	17	0.004729	0.001116	94.12	None	No	0.01	NP (NDs)

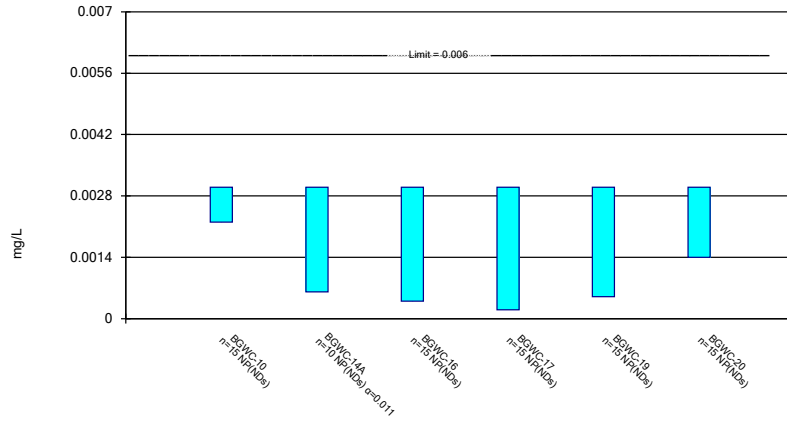
Federal Confidence Intervals - All Results

Plant Bowen Client: Southern Company Data: Bowen AP-1 Printed 5/17/2021, 1:03 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	BGWC-14A	0.005	0.005	0.05	No	10	0.00464	0.001138	90	None	No	0.011	NP (NDs)
Selenium (mg/L)	BGWC-16	0.005	0.0017	0.05	No	17	0.003688	0.00169	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-17	0.005	0.0022	0.05	No	17	0.004098	0.00171	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-18	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-19	0.005	0.0013	0.05	No	17	0.004254	0.00167	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-20	0.005	0.0037	0.05	No	17	0.004924	0.0003153	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-21	0.005	0.001	0.05	No	16	0.004445	0.001525	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-22	0.012	0.0026	0.05	No	17	0.005082	0.002014	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-23	0.0176	0.002	0.05	No	17	0.005565	0.003185	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-24	0.00709	0.002798	0.05	No	17	0.006541	0.00644	17.65	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	BGWC-30	0.0102	0.005525	0.05	No	17	0.007865	0.003734	11.76	None	No	0.01	Param.
Selenium (mg/L)	BGWC-31	0.005	0.00008	0.05	No	7	0.004297	0.00186	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-32	0.005	0.00015	0.05	No	7	0.004307	0.001833	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-34D	0.005	0.0001	0.05	No	7	0.0043	0.001852	85.71	None	No	0.008	NP (NDs)
Selenium (mg/L)	BGWC-36D	0.01335	0.003196	0.05	No	7	0.008271	0.004273	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-38D	0.005	0.003	0.05	No	5	0.0046	0.0008944	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-39	0.005	0.002	0.05	No	5	0.0038	0.001643	60	None	No	0.031	NP (NDs)
Selenium (mg/L)	BGWC-40	0.01185	0.0001122	0.05	No	5	0.00598	0.003502	0	None	No	0.01	Param.
Selenium (mg/L)	BGWC-8	0.005	0.00015	0.05	No	17	0.004423	0.001628	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	BGWC-9	0.005	0.001	0.05	No	16	0.003519	0.002003	62.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWA-6	0.001	0.000061	0.002	No	16	0.0004816	0.0004729	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-12	0.001	0.00009	0.002	No	19	0.0007569	0.0004179	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-14A	0.0005285	0.0001855	0.002	No	10	0.000357	0.0001922	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-16	0.00024	0.0002	0.002	No	19	0.0002216	0.00003532	0	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-17	0.001	0.00008	0.002	No	19	0.0005295	0.0004608	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	BGWC-18	0.001	0.000071	0.002	No	19	0.0008526	0.0003498	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-19	0.001	0.00008	0.002	No	19	0.0007087	0.0004406	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-20	0.001	0.0002	0.002	No	19	0.0009579	0.0001835	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-22	0.0007682	0.0005834	0.002	No	19	0.0006758	0.0001577	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-23	0.001	0.00018	0.002	No	19	0.0007395	0.0003707	63.16	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-24	0.0006804	0.0004312	0.002	No	19	0.0005558	0.0002128	10.53	None	No	0.01	Param.
Thallium (mg/L)	BGWC-30	0.0005088	0.0002194	0.002	No	19	0.0005829	0.0003072	15.79	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-32	0.00046	0.000084	0.002	No	8	0.0001793	0.0001163	0	None	No	0.004	NP (normality)
Thallium (mg/L)	BGWC-34D	0.001	0.000089	0.002	No	8	0.0008861	0.0003221	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-35D	0.001	0.000068	0.002	No	8	0.0007785	0.0004109	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	BGWC-36D	0.0002942	0.0001233	0.002	No	8	0.0002088	0.00008061	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-38D	0.002393	-0.0009636	0.002	No	5	0.0008712	0.001085	20	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	BGWC-39	0.0002624	0.0001096	0.002	No	5	0.000186	0.00004561	0	None	No	0.01	Param.
Thallium (mg/L)	BGWC-40	0.001	0.00014	0.002	No	5	0.000828	0.0003846	80	None	No	0.031	NP (NDs)
Thallium (mg/L)	BGWC-7	0.001	0.00011	0.002	No	19	0.0007638	0.0004062	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	BGWC-9	0.001	0.00022	0.002	No	18	0.0008592	0.0003252	83.33	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

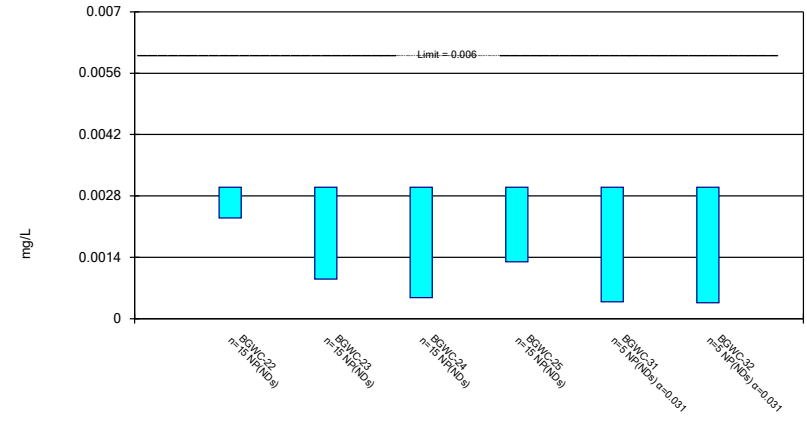
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Constituent: Antimony Analysis Run 5/17/2021 1:00 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

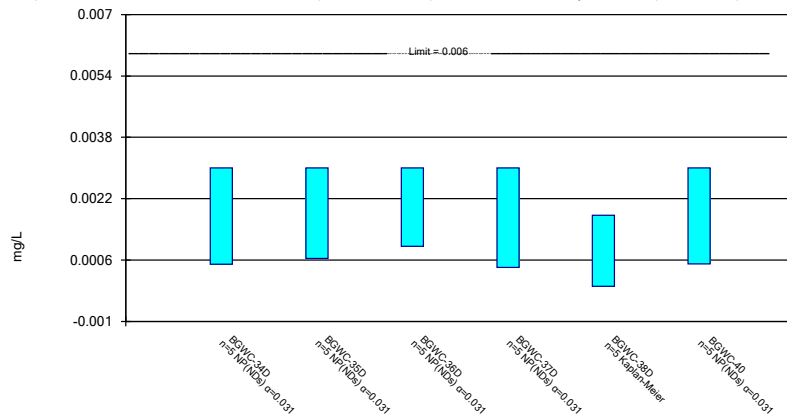
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Constituent: Antimony Analysis Run 5/17/2021 1:00 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

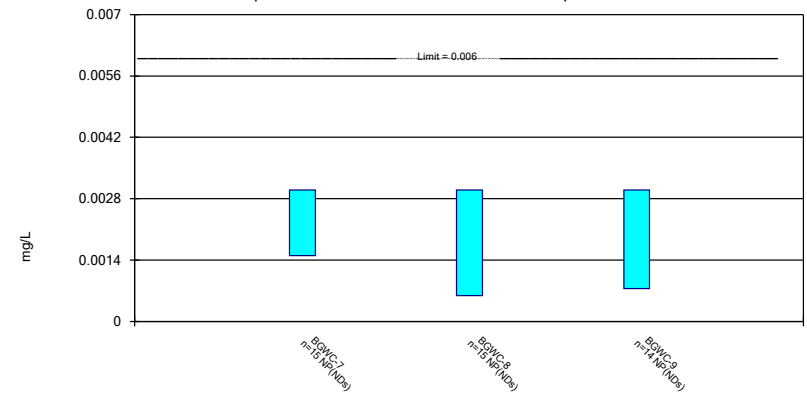
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Constituent: Antimony Analysis Run 5/17/2021 1:00 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

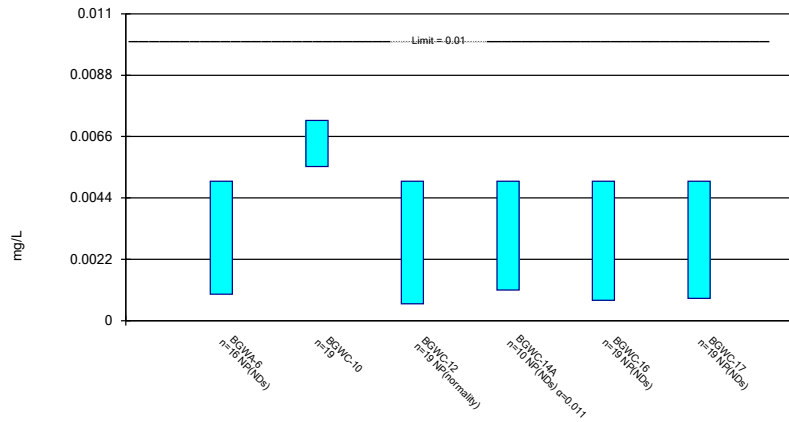
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Constituent: Antimony Analysis Run 5/17/2021 1:00 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

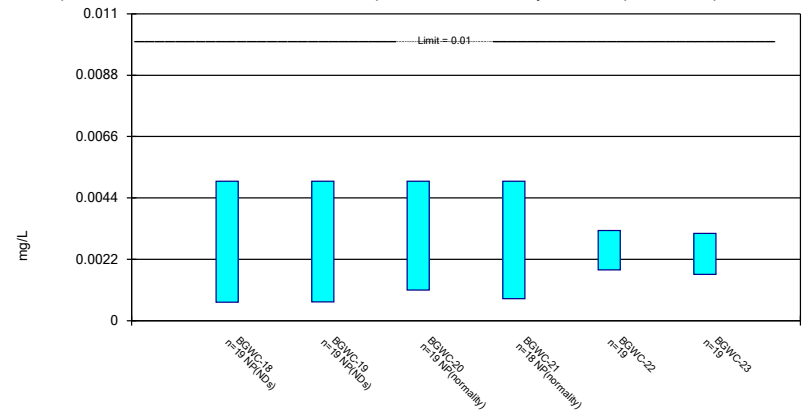
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Constituent: Arsenic Analysis Run 5/17/2021 1:00 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

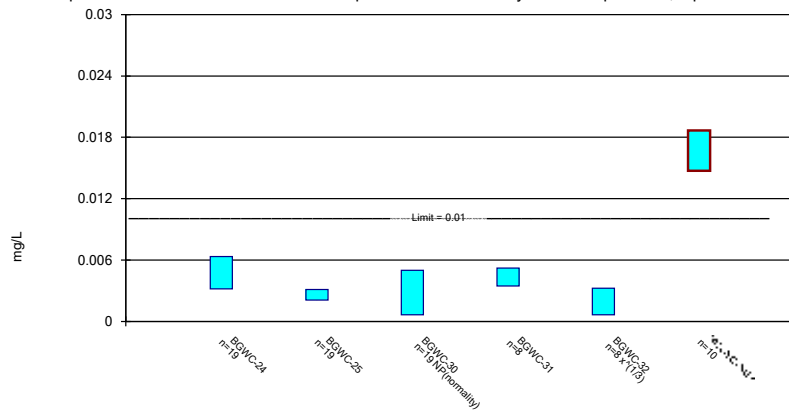
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

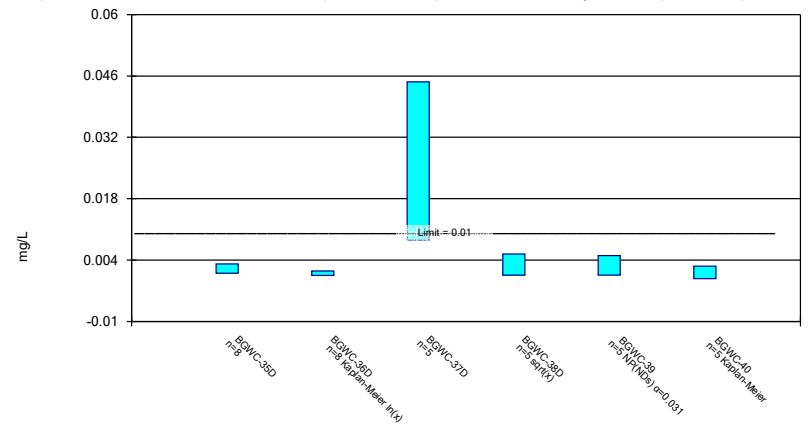
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

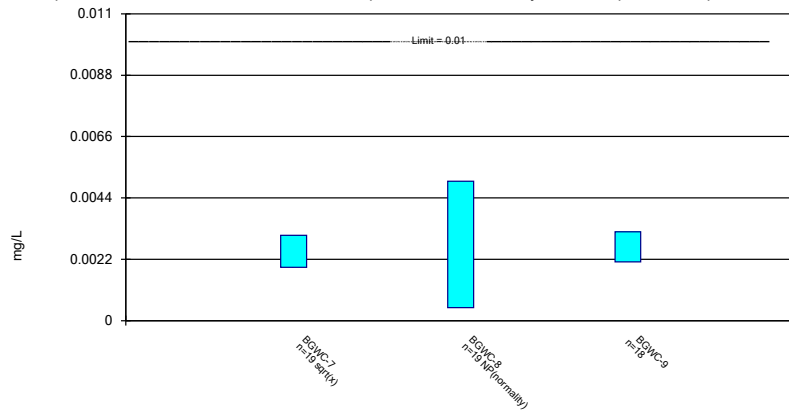
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 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

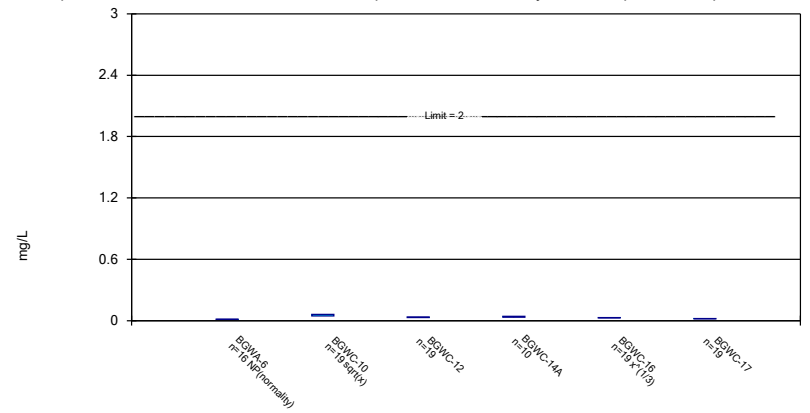
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Constituent: Arsenic Analysis Run 5/17/2021 1:00 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

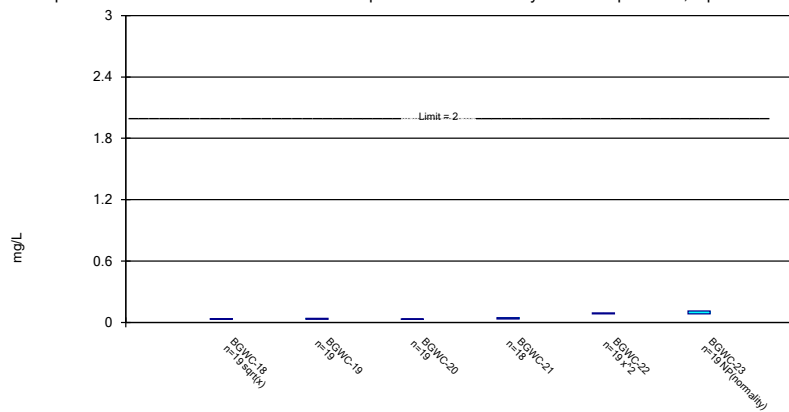
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Constituent: Barium Analysis Run 5/17/2021 1:00 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

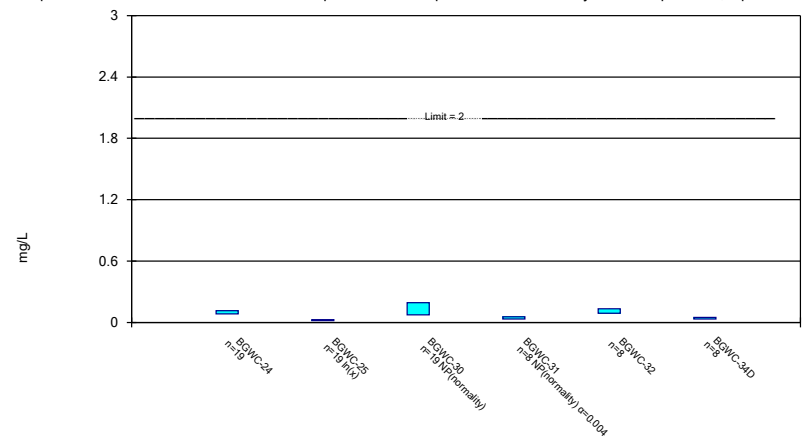
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Constituent: Barium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

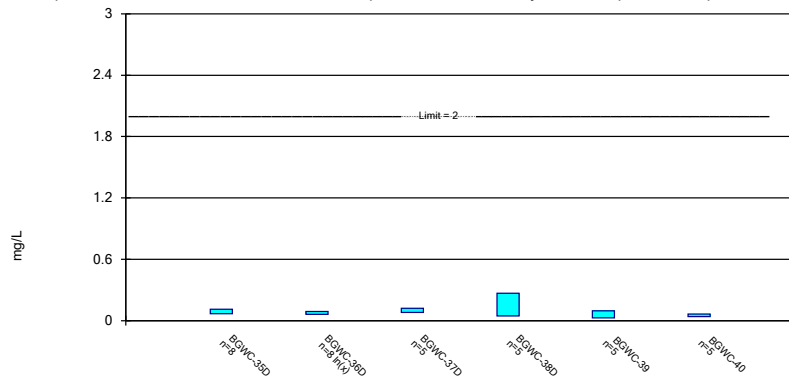
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Constituent: Barium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

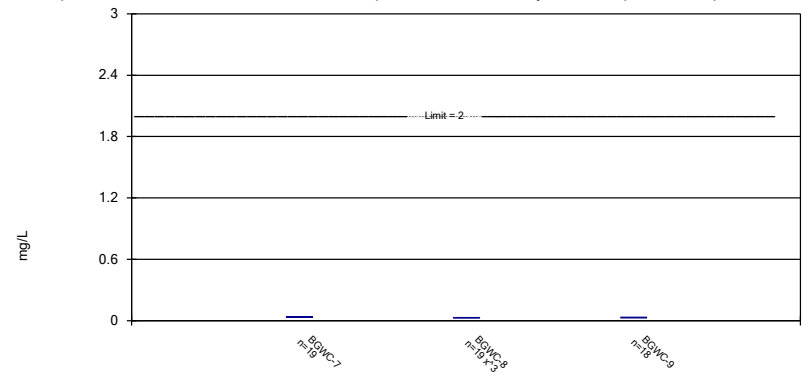
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Constituent: Barium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

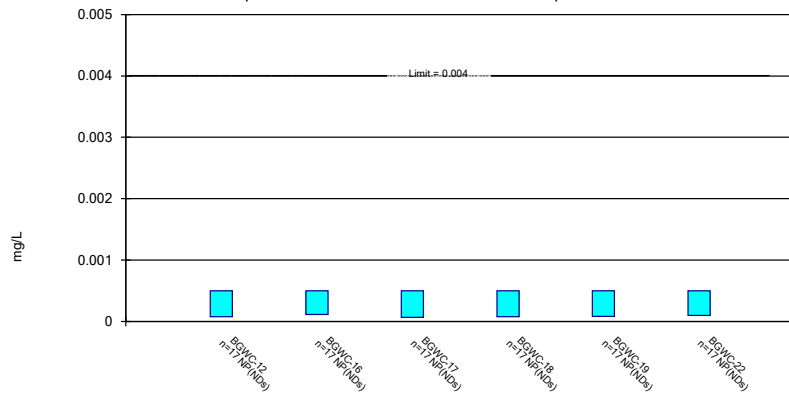
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Constituent: Barium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

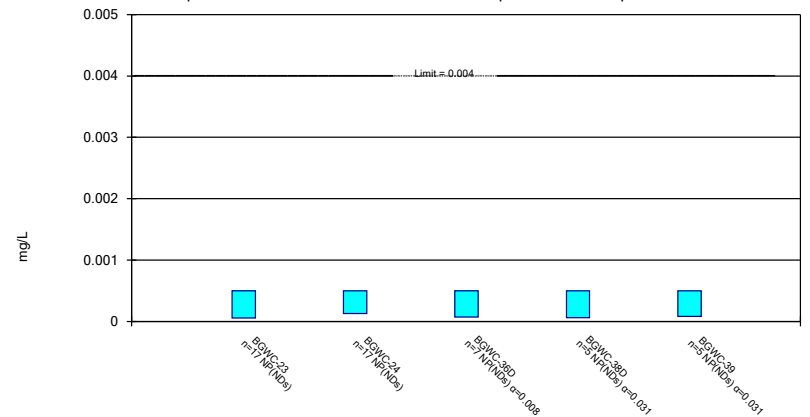
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Constituent: Beryllium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

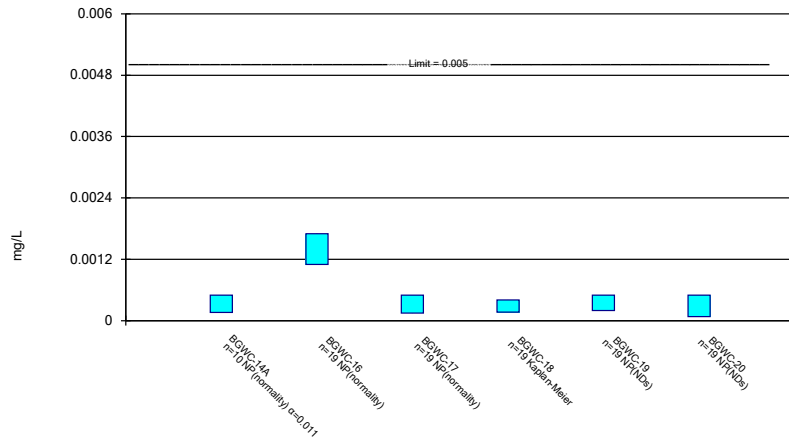
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Constituent: Beryllium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

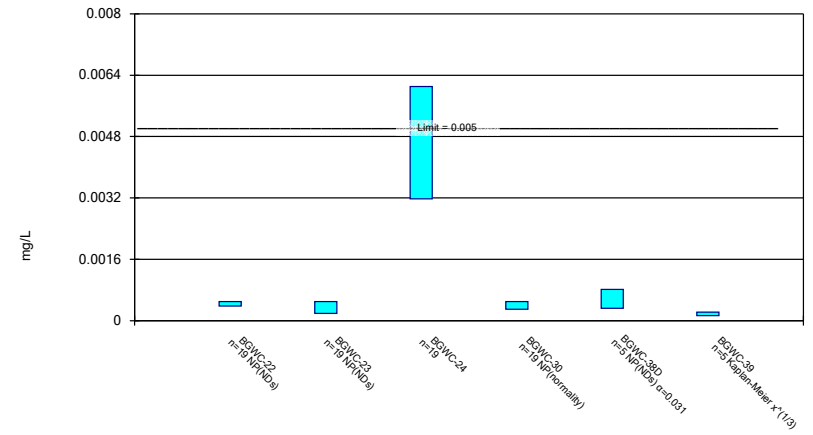
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Constituent: Cadmium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

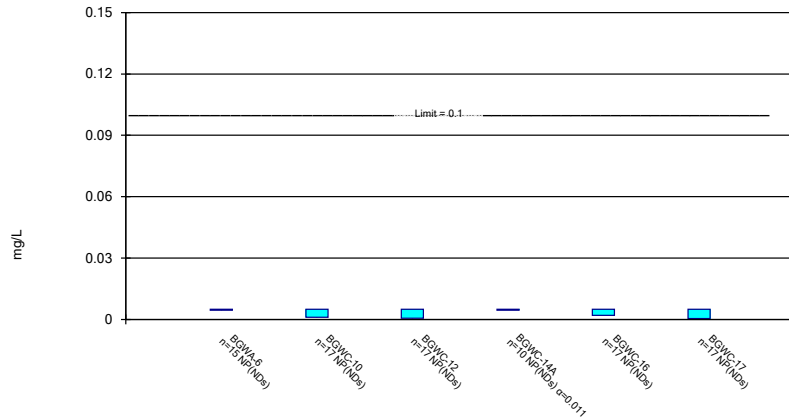
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Constituent: Cadmium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

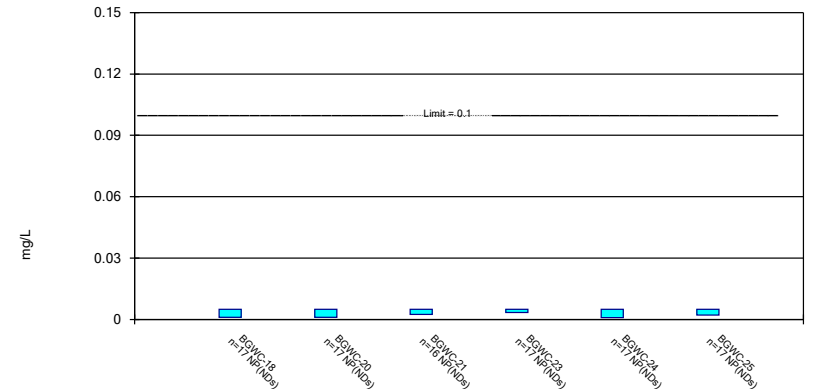
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Constituent: Chromium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

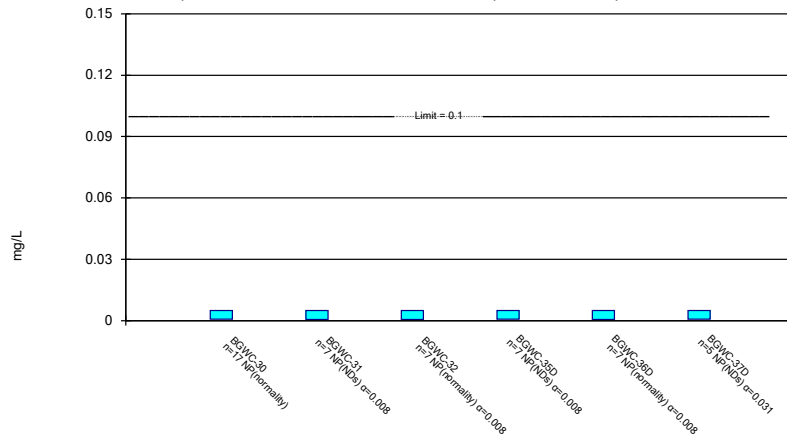
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Constituent: Chromium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

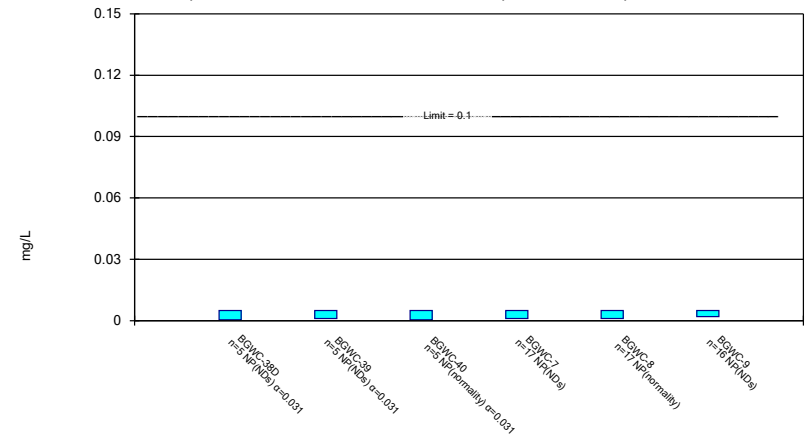
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Constituent: Chromium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

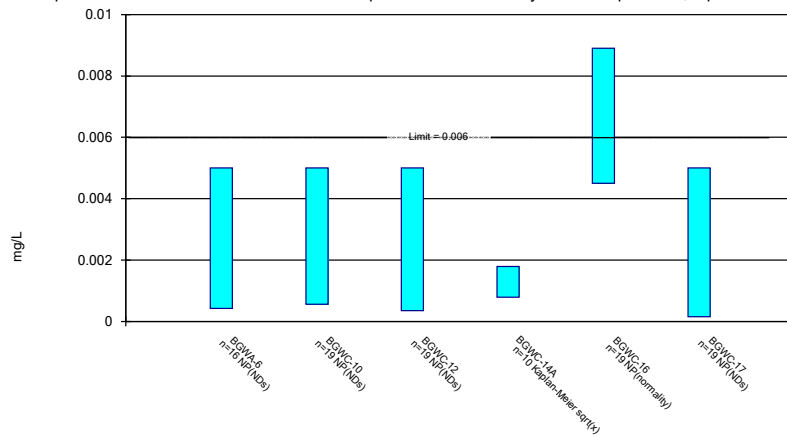
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Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

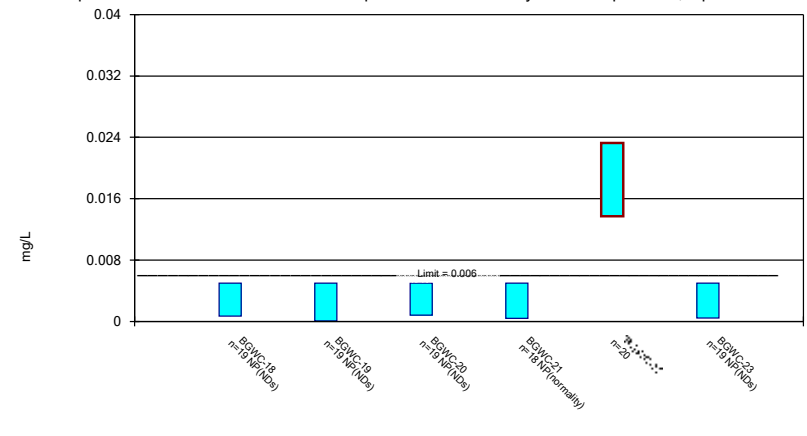
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Constituent: Cobalt Analysis Run 5/17/2021 1:01 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

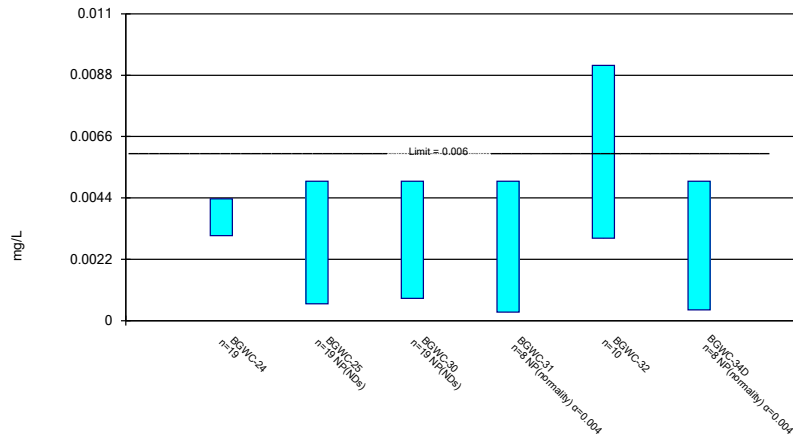
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Constituent: Cobalt Analysis Run 5/17/2021 1:01 PM View: Appendix IV
Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

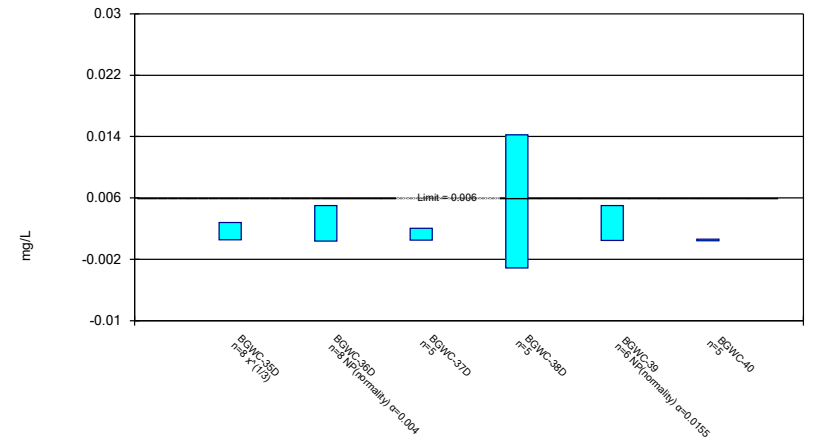
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Constituent: Cobalt Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

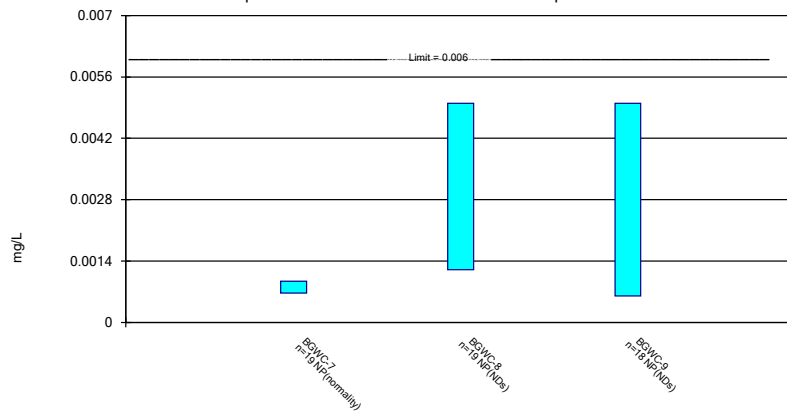
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Constituent: Cobalt Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

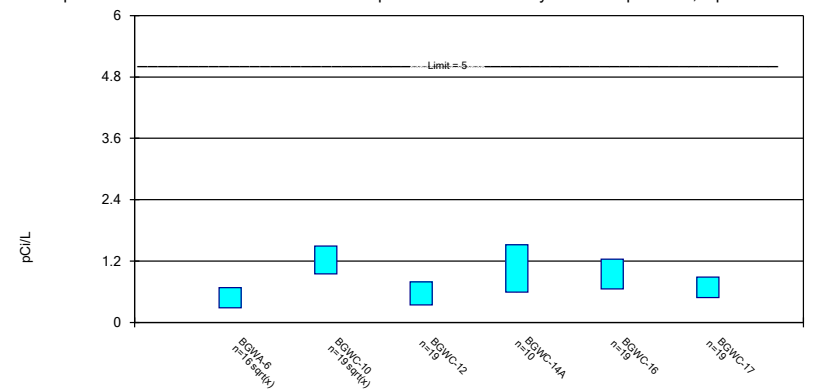
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Constituent: Cobalt Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

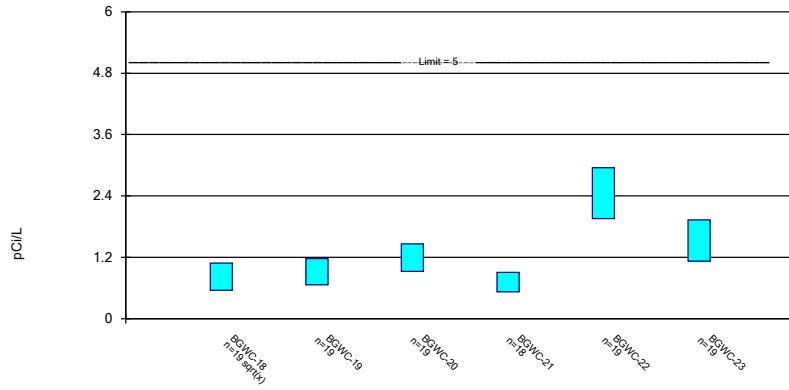
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Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

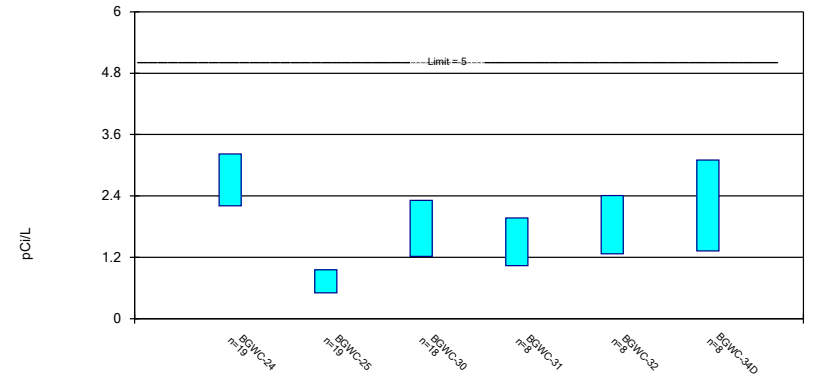
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Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

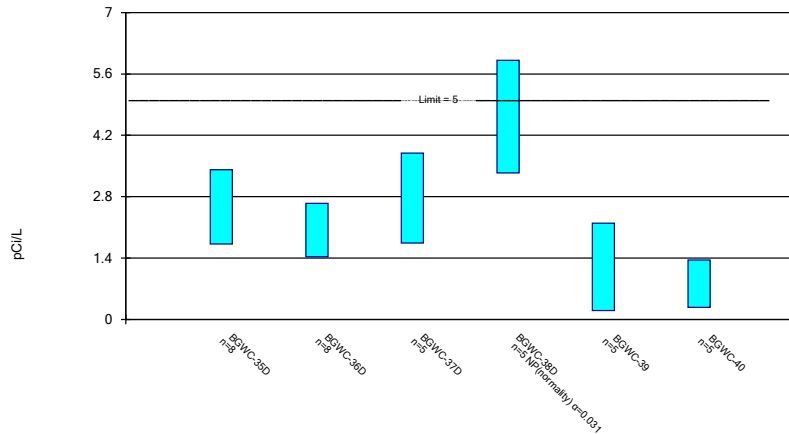
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

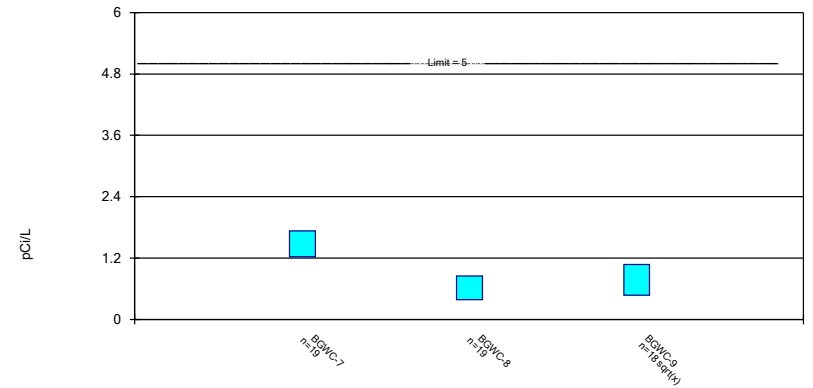
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

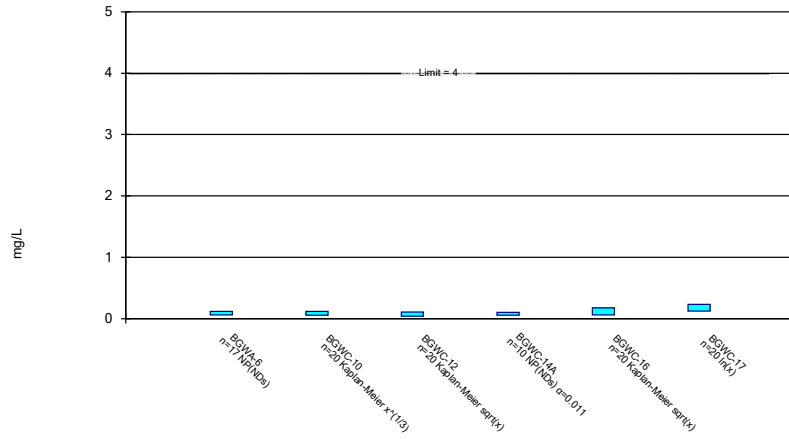
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

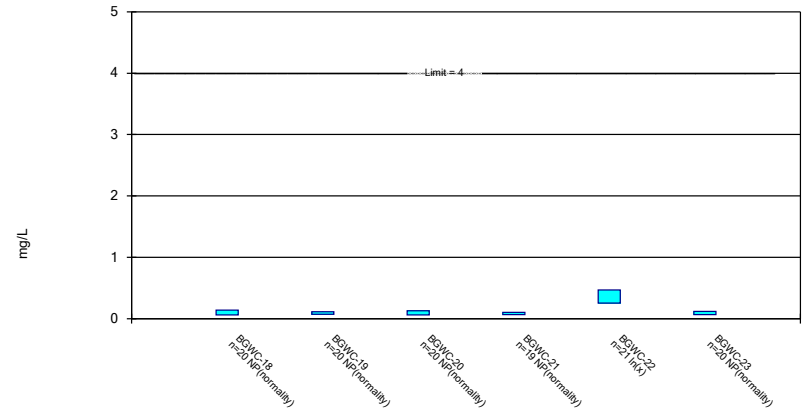
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

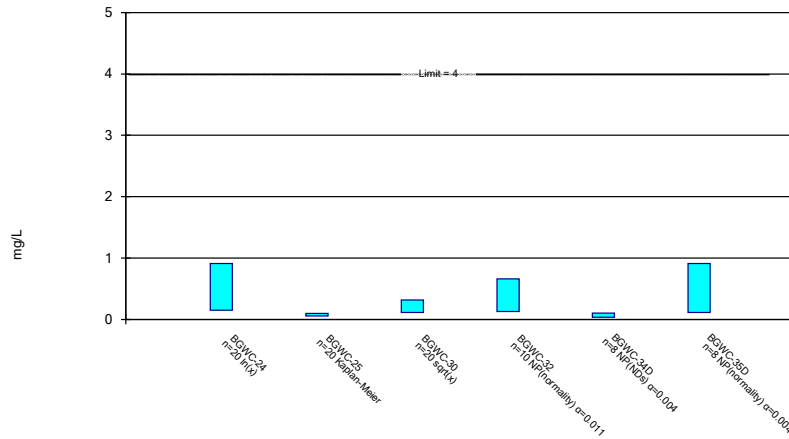
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

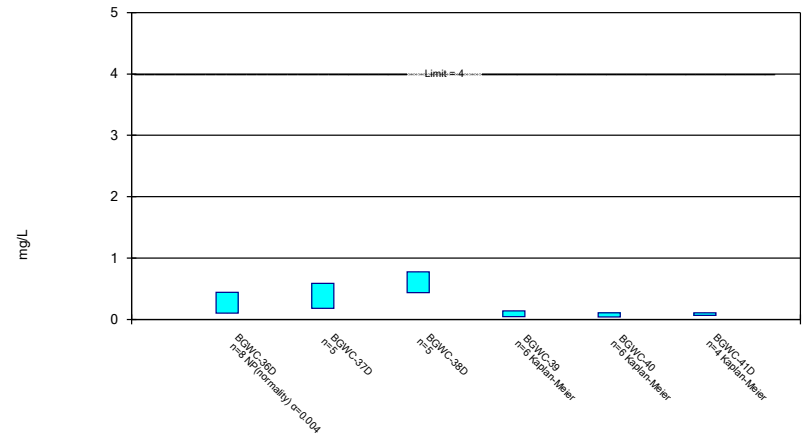
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

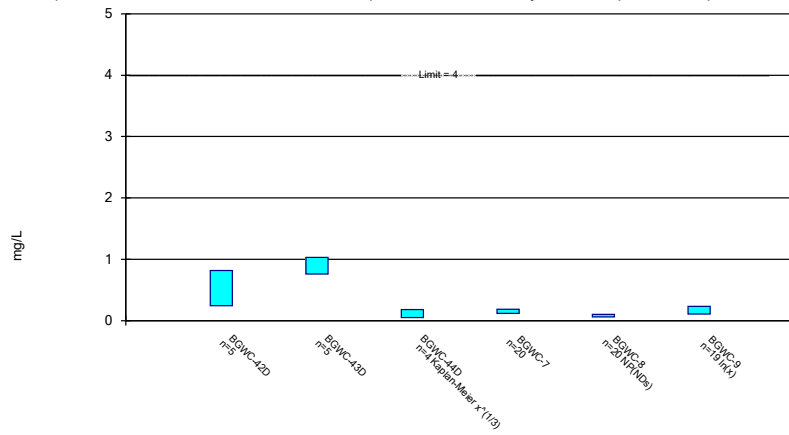
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

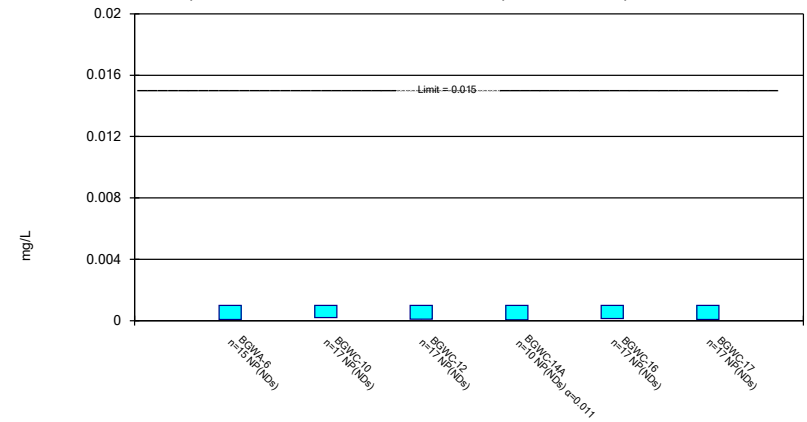
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

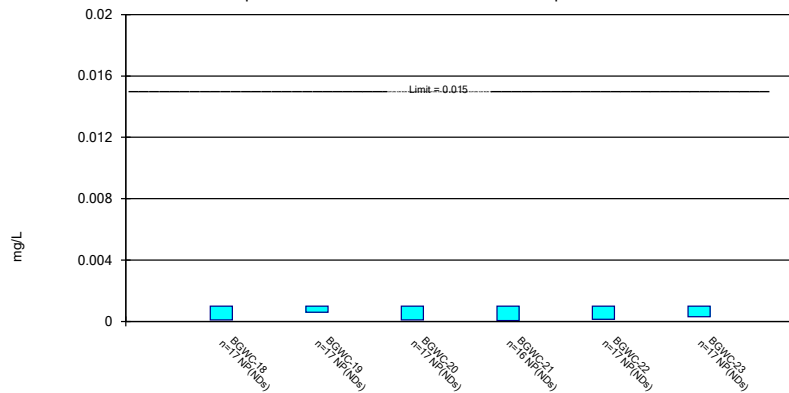
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

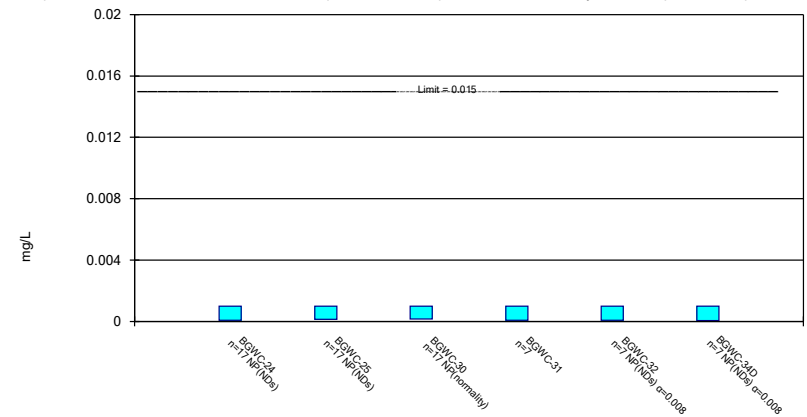
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

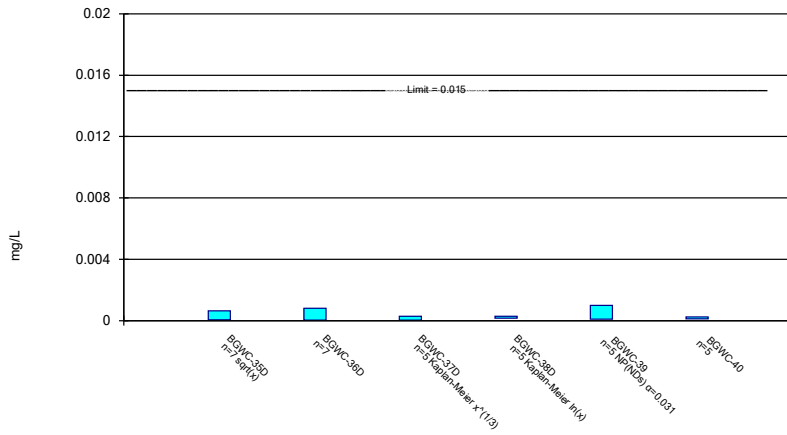
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

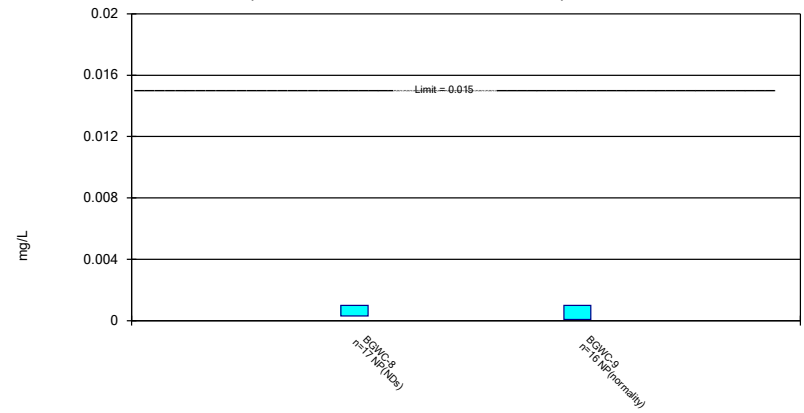
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

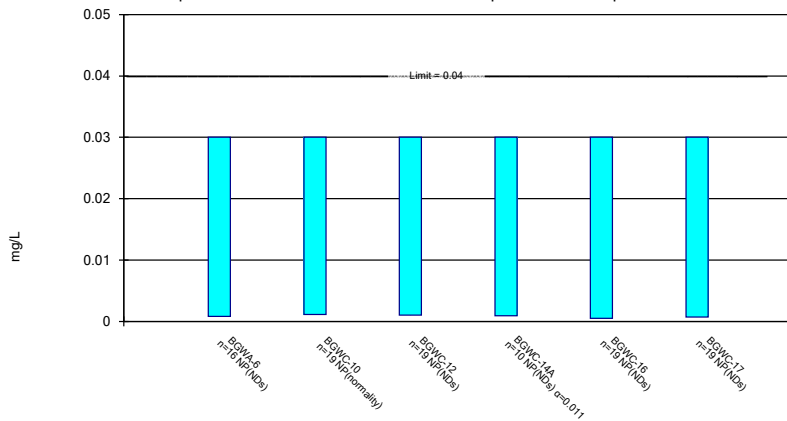
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

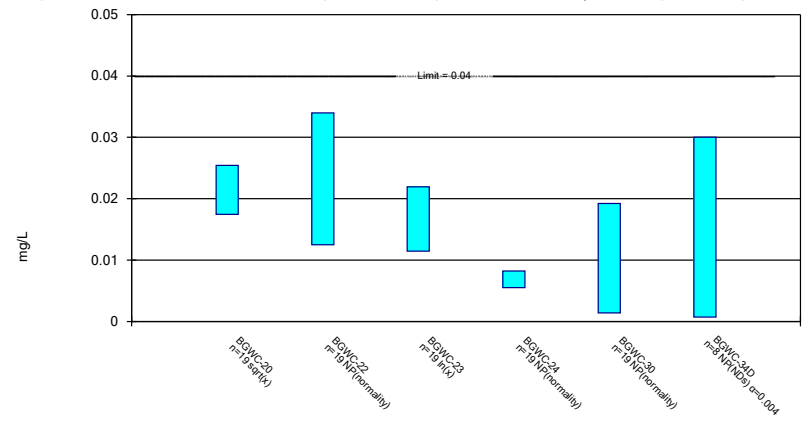
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lithium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

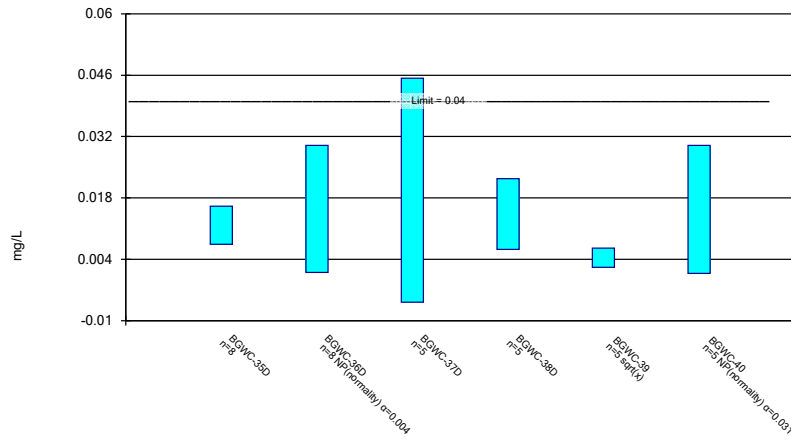
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

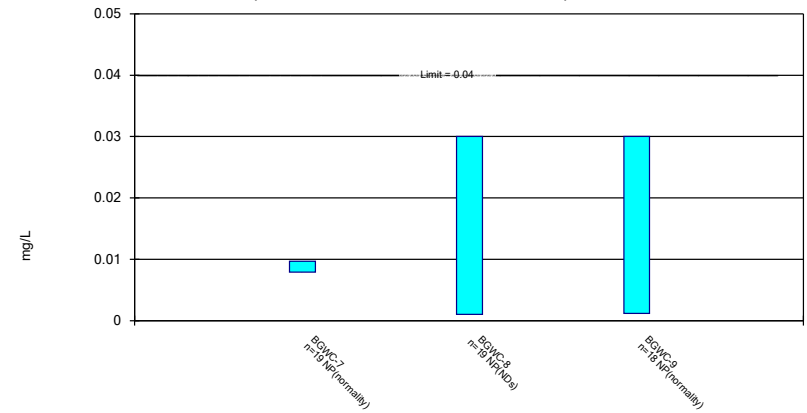
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

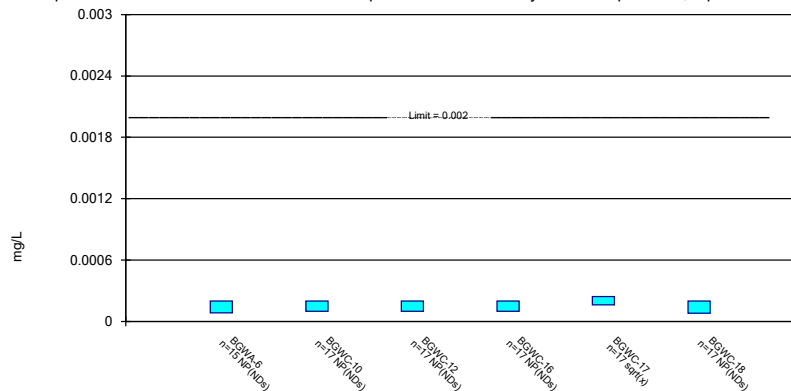
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

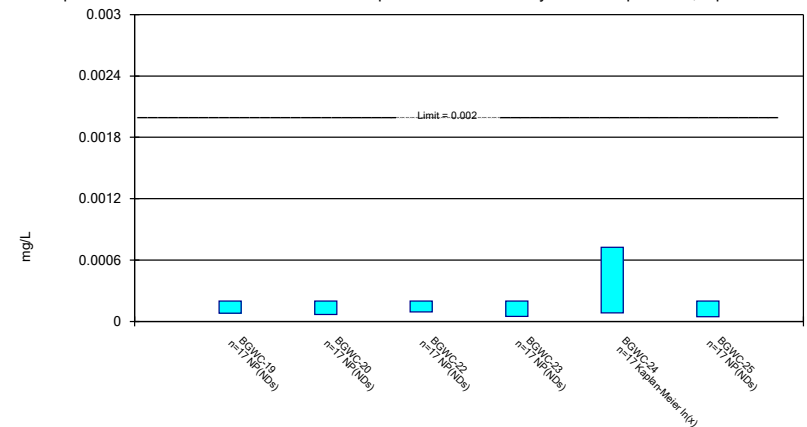
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

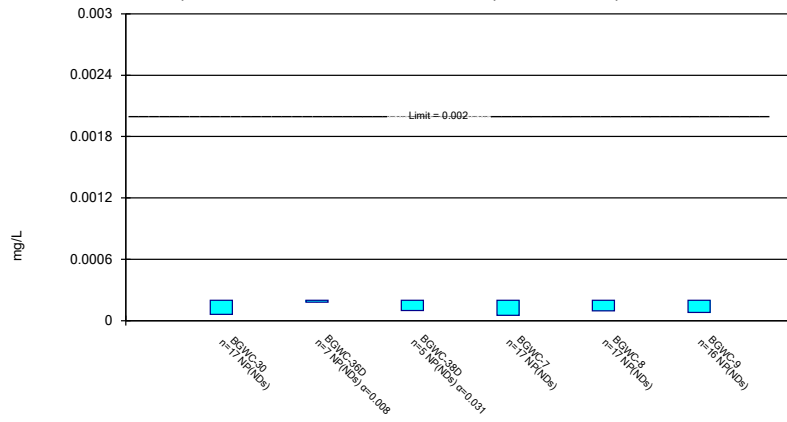
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

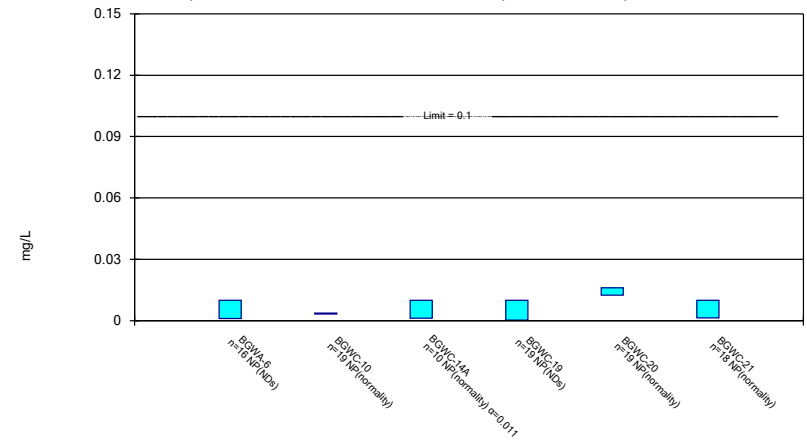
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

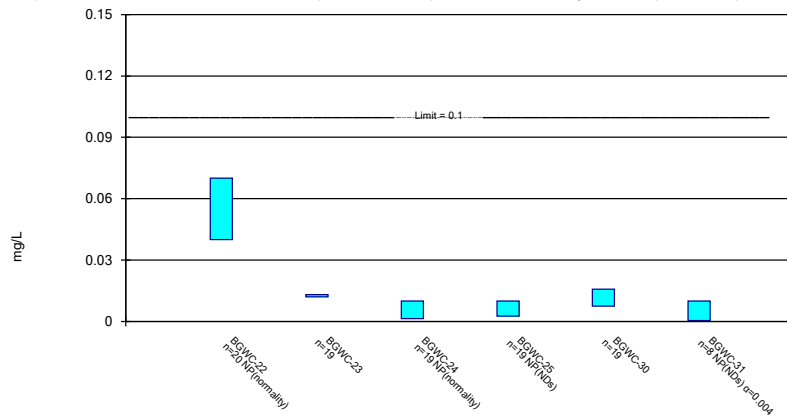
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

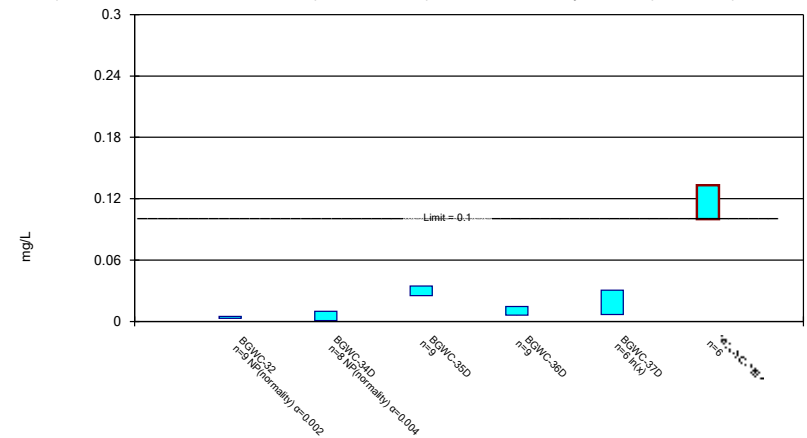
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

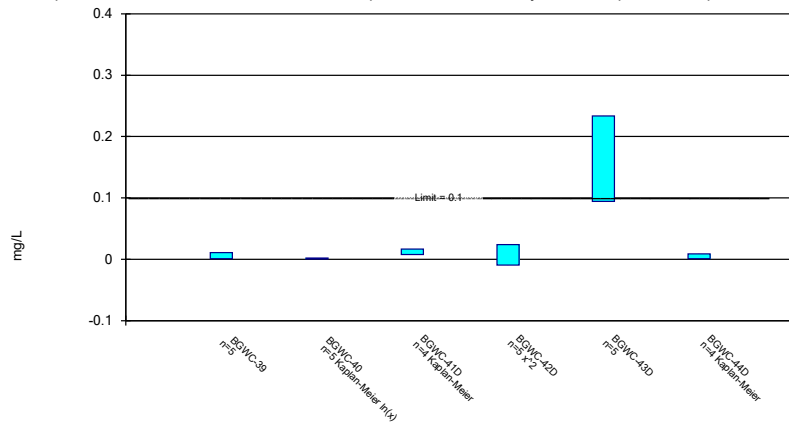
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:01 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric Confidence Interval

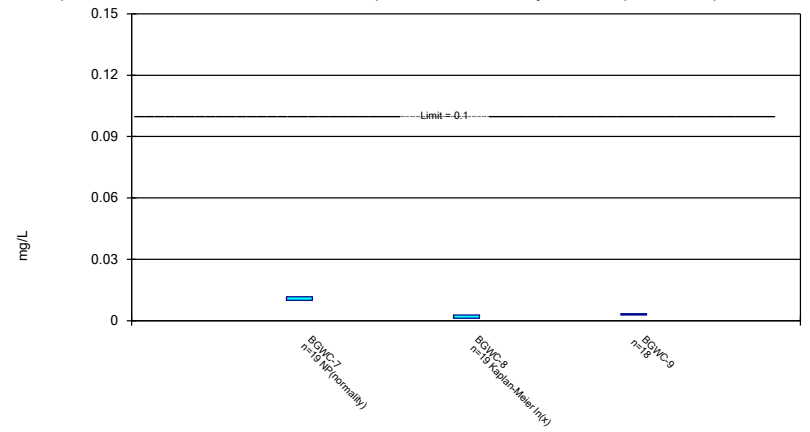
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

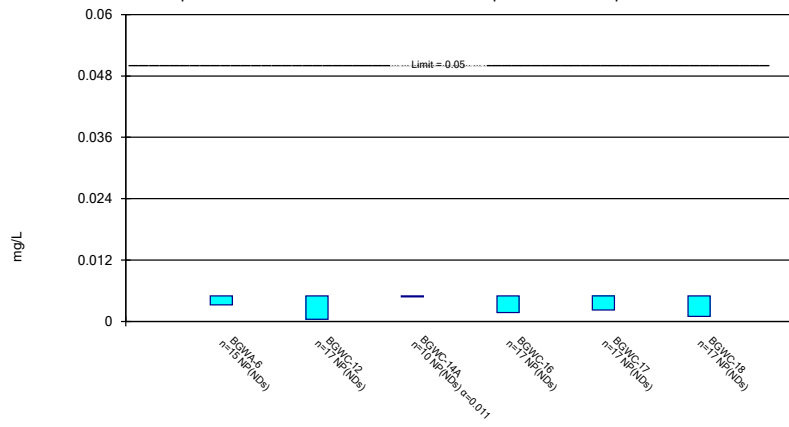
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

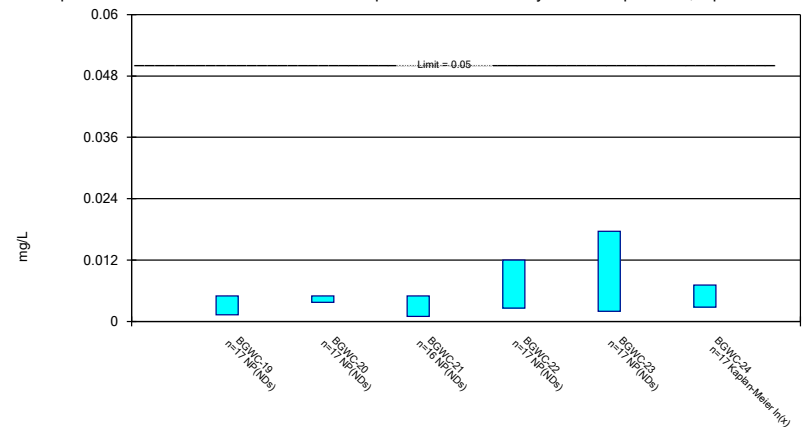
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

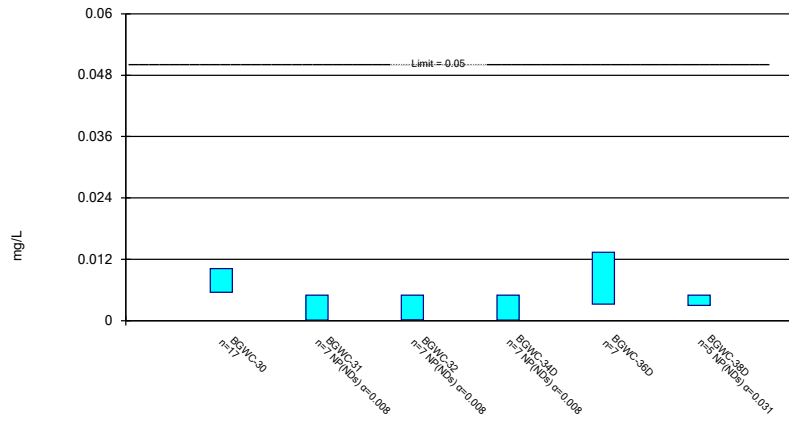
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

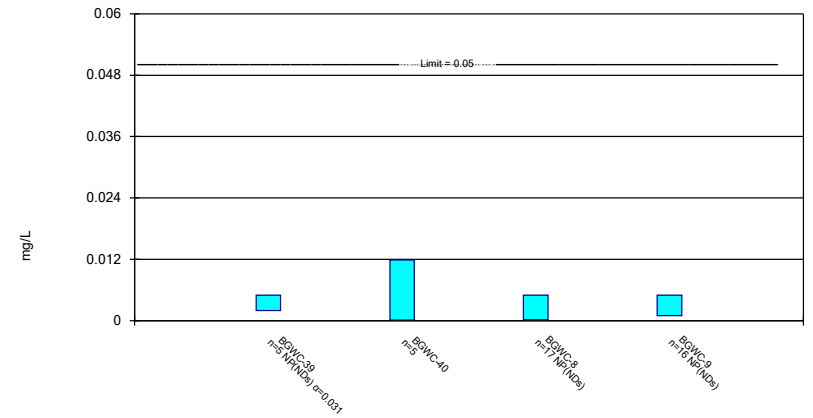
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

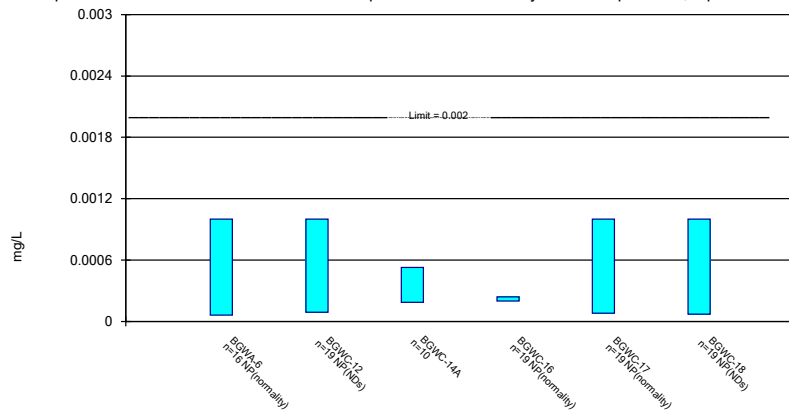
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

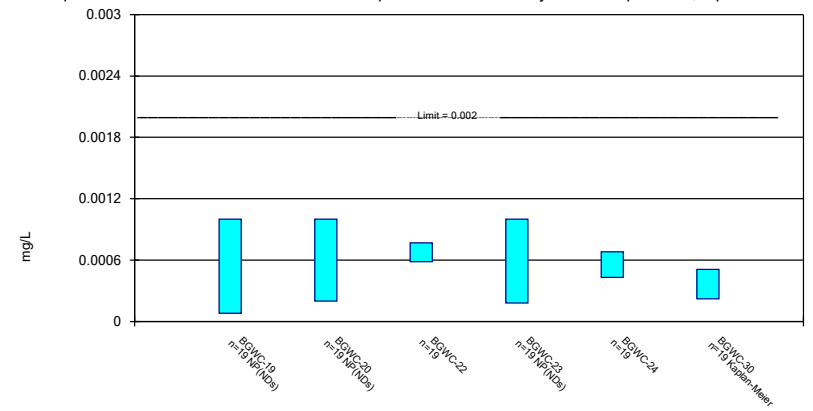
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Constituent: Thallium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

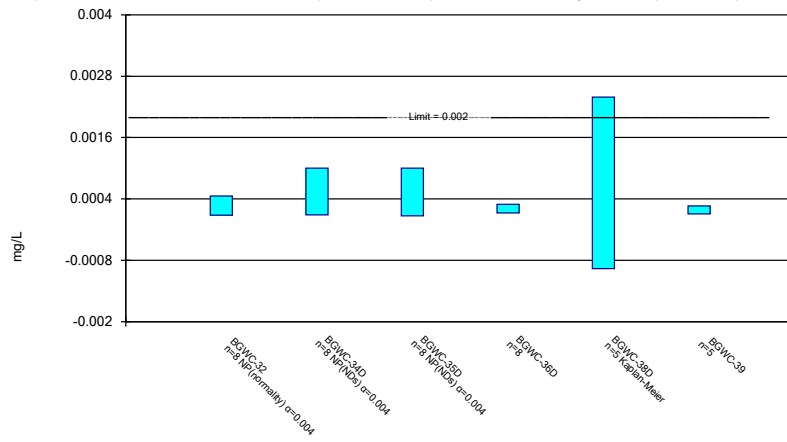
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Constituent: Thallium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Parametric and Non-Parametric (NP) Confidence Interval

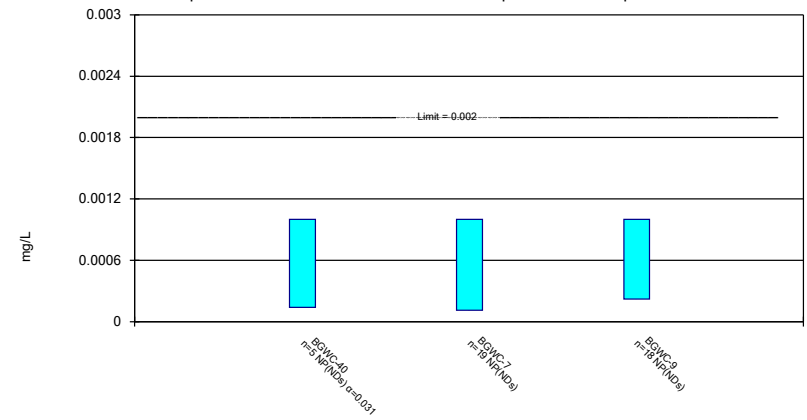
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 5/17/2021 1:02 PM View: Appendix IV
 Plant Bowen Client: Southern Company Data: Bowen AP-1