2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GEORGIA POWER COMPANY – PLANT MITCHELL
ASH PONDS A, 1, AND 2
PUTNEY, GEORGIA



PROJECT NO.: 6122-16-0170
JULY 31, 2024

WSP USA ENVIRONMENT & INFRASTRUCTURE, INC.
1075 BIG SHANTY ROAD, NW
SUITE 100
KENNESAW, GEORGIA 30144

T+ 1 770-421-3400

WSP.COM



CERTIFICATION STATEMENT

This *2024 Annual Groundwater Monitoring and Corrective Action Report*, Plant Mitchell (Ash Ponds A, 1, and 2) has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with WSP USA Environment & Infrastructure, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565

Date: July 31, 2024



Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration #1031

Date: July 31, 2024

SUMMARY

This summary of the *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program from July 2023 through June 2024 at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1 and 2 (the Site). This summary was prepared by WSP USA Environment & Infrastructure, Inc. (formerly Wood Environment & Infrastructure Solutions, Inc.) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, and by reference Part A, Section 6[1] of the United States Environmental Protection Agency (US EPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).



Plant Mitchell Ash Ponds A, 1, and 2

Georgia Power's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell Site is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary. There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements of the CCR rule. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit was approved on June 28, 2022 (Permit No. 047-024D(CCR)).

The groundwater monitoring program for the ash ponds is managed in accordance with the GA EPD CCR Rules. A comprehensive well network monitors the groundwater conditions upgradient and downgradient of the ash ponds, in accordance with GA EPD rule requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019.

---

[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*

Semi-annual groundwater monitoring events were conducted in September 2023 and February 2024 and the Site remains in assessment monitoring. The samples collected during the routine semi-annual monitoring events were analyzed for the full suite of Appendix III[2] and the full suite of Appendix IV[3] constituents. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for September 2023 and February 2024 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III constituents in wells provided in the table below. There are no confidence intervals of the individual well/constituent pairs above a Groundwater Protection Standard (GWPS). Therefore, no statistically significant levels (SSLs) were identified for the September 2023 and February 2024 sampling events.

Appendix III Constituents	**September 2023**
Boron	PZ-7D, PZ-15, PZ-16, PZ-17 PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	PZ-18, PZ-19, PZ-23A
Chloride	PZ-15, PZ-16
Fluoride	None
pH	PZ-14, PZ-18, PZ-19, PZ-23A
Sulfate	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
TDS	PZ-15, PZ-18, PZ-19, PZ-23A, PZ-25
Appendix III Constituents	**February 2024**
Boron	PZ-7D, PZ-15, PZ-16, PZ-17 PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
Calcium	PZ-18, PZ-19, PZ-23A
Chloride	PZ-15, PZ-16
Fluoride	None
pH	PZ-18, PZ-19, PZ-23A
Sulfate	PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33
TDS	PZ-7D, PZ-14, PZ-15, PZ-18, PZ-19, PZ-23A, PZ-33

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for September 2023 and February 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GA EPD semi-annually.

---

[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*

TABLE OF CONTENTS

1 INTRODUCTION 1
1.1 SITE DESCRIPTION AND BACKGROUND 1
1.2 REGIONAL GEOLOGY AND HYDROGEOLOGIC SETTING 2
1.2.1 SITE GEOLOGY 2
1.2.2 SITE HYDROGEOLOGY 3
1.3 GROUNDWATER MONITORING SYSTEM 3
2 GROUNDWATER MONITORING ACTIVITIES 5
2.1 MONITORING WELL AND PIEZOMETER MAINTENACE 5
2.2 PIEZOMETER ABANDONMENT 5
2.3 ASSESSMENT MONITORING 6
3 SAMPLE METHODOLOGY & ANALYSES 7
3.1 GROUNDWATER ELEVATION MEASUREMENTS AND FLOW DIRECTION 7
3.2 GROUNDWATER GRADIENT AND FLOW VELOCITY 7
3.3 GROUNDWATER SAMPLING 8
3.4 LABORATORY ANALYSES 8
3.5 GROUNDWATER ANALYTICAL RESULTS 9
3.6 QUALITY ASSURANCE & QUALITY CONTROL 9
4 STATISTICAL ANALYSIS 10
4.1 STATISTICAL METHOD 10
4.1.1 APPENDIX III STATISTICAL METHOD 10
4.1.2 APPENDIX IV STATISTICAL METHOD 11
4.2 STATISTICAL ANALYSES RESULTS – APPENDIX III 12
4.3 STATISTICAL ANALYSES RESULTS – APPENDIX IV 12
5 MONITORING PROGRAM STATUS 13
6 CONCLUSIONS & FUTURE ACTIONS 14
7 REFERENCES 15

TABLES

TABLE 1	SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
TABLE 2	GROUNDWATER SAMPLING EVENTS
TABLE 3	SUMMARY OF GROUNDWATER ELEVATIONS
TABLE 4	GROUNDWATER FLOW VELOCITY CALCULATIONS
TABLE 5	ANALYTICAL DATA SUMMARY – SEPTEMBER 2023 AND FEBRUARY 2024
TABLE 6	STATISTICAL METHOD SUMMARY
TABLE 7	SUMMARY OF GROUNDWATER PROTECTION STANDARDS

FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	MONITORING NETWORK WELL LOCATION MAP
FIGURE 3	POTENTIOMETRIC SURFACE MAP – UPPER BEDROCK- SEPTEMBER 18, 2023
FIGURE 4	POTENTIOMETRIC SURFACE MAP – UPPER BEDROCK- FEBRUARY 26, 2024

APPENDICES

APPENDIX A	WELL REPAIRS AND INSPECTIONS
APPENDIX B	ABANDONMENT OF SELECT PIEZOMETERS
APPENDIX C	LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS – SEPTEMBER 2023 AND FEBRUARY 2024
APPENDIX D	STATISTICAL ANALYSES

LIST OF ACRONYMS

CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
cm/sec	Centimeters per Second
DO	Dissolved Oxygen
ft/day	Feet per Day
GA EPD	Georgia Environmental Protection Division
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	Milligrams per Liter
NAD	North America Datum of 1983
NAVD	North America Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTUS	Nephelometric Turbidity Units
OCGA	Official Code of Georgia Annotated
ORP	Oxidation-Reduction Potential
PL	Prediction Limit
QA/QC	Quality Assurance/Quality Control
RL	Reporting Limit (Laboratory)
SCS	Southern Company Services
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
su	Standard Unit (Unit for pH Values)
US EPA	United States Environmental Protection Agency

1 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this *2024 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1, and 2. To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR Rules are cited within this report instead of the GA EPD Rules.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95. This annual report documents the activities completed from July 2023 through June 2024 in accordance with GA EPD Rule 391-3-4-.10(6) and includes the semi-annual assessment monitoring events conducted in September 2023 and February 2024.

1.1 SITE DESCRIPTION AND BACKGROUND

Georgia Power's Plant Mitchell is located approximately eight miles south of Albany, Georgia. The Plant Mitchell site (the Site) is comprised of approximately 516 acres, with the northern portion of the Site located in Dougherty County and the southern portion located in Mitchell County. Baker County is located immediately to the west of the Site, with the Flint River forming the county boundary **(Figure 1: Site Location Map)**. As depicted in **Figure 2: Monitoring Network Well Location Map**, the former coal-fired electric generating facility was located to the north of Ash Ponds A, 1, and 2. The Site is partially bounded by the Flint River on the west, the Georgia and Florida Railway on the east, pecan orchards to the south. The wooded land immediately north of the former plant buildings is owned by the Georgia Power Company.

There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond A, Ash Pond 1, and Ash Pond 2. The three ash ponds are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The former coal-fired plant buildings have been demolished. The CCR material is being removed from the ash ponds and the ponds are in the process of being closed. The removed CCR material is being transported by rail and/or by truck for disposal at an approved landfill or beneficially reused.

Plant Mitchell Ash Pond A was closed in 1962, Ash Pond 1 closed in 1980, and Ash Pond 2 ceased accepting CCR prior to October 19, 2015. Because the units ceased receiving waste prior to October 19, 2015, Ash Ponds A, 1, and 2 are not subject to Federal monitoring requirements of the CCR rule. The Plant Mitchell CCR Surface Impoundments (Ash Pond A, Ash Pond 1, and Ash Pond 2) Permit was issued by GA EPD on June 28, 2022 (Permit No. 047-024D(CCR)).

Groundwater monitoring has been initiated in order to meet GA EPD CCR requirements. The CCR background study was initiated in August 2016 and was completed in October 2018. The first detection monitoring event was conducted in March 2019 and the first assessment monitoring event was in October 2019. During this annual reporting period,

one semi-annual assessment monitoring event was conducted in September 2023 and one semi-annual assessment monitoring event was conducted in February 2024. The Site remains in assessment monitoring.

1.2 REGIONAL GEOLOGY AND HYDROGEOLOGIC SETTING

The geology and hydrogeology of the Plant Mitchell Ash Ponds A, 1, and 2 are summarized below. The Plant Mitchell Site is located in the Dougherty Plain physiographic district within the Gulf Coastal Plain Physiographic Province (Watson, 1981; Clark and Zisa, 1976). The Dougherty Plain is characterized as relatively flat to gently rolling lowland karst terrain consisting of solutional features including caves, ephemeral streams, springs, and solution features which manifest surficially as shallow depressions.

The surface and near surface soils in the region consist of approximately 0 to 70 feet of unconsolidated sediment collectively referred to as residuum or overburden. This overburden is typically composed of discontinuous layers of sand and clay derived from the in-place weathering of the underlying Ocala Limestone. The overburden clay content ranges from 10 to 70 percent, with clay content typically being greater than 25 percent (Watson, 1981) making the overburden material less permeable than the underlying carbonate bedrock.

The Ocala Limestone in the region is described as a light-colored fossiliferous friable to well-indurated limestone (Gordon and Gonthier, 2017). Regionally, the Ocala Limestone is between 125 and 275 feet thick with increasing thickness to the southeast. The Ocala Limestone is part of the Floridan aquifer, which is hydraulically separated from the underlying Claiborne aquifer by the Lisbon Confining Unit (Gordon and Gonthier, 2017).

1.2.1 SITE GEOLOGY

Based on the borings drilled to establish the detection monitoring network, the lithologies underlying the ash pond area from the ground surface to depth are overburden (residuum) and carbonate bedrock. The overburden (residuum) at the Site consists of an interlayered sequence of predominantly fine-grained unconsolidated material including reddish brown to gray silty and clayey sands overlying sandy clay and clay. The overburden material is composed of the residual product of weathering of the underlying Ocala Limestone in the form of non-calcareous clay interlayered with quartz sand alluvium deposits (Hicks et al, 1981). A discontinuous zone of low permeability fine-grained sediments overlying the Ocala Limestone may serve as a barrier that restricts vertical movement of groundwater from the overburden to the limestone beneath the ash pond area, as indicated by many of the boring logs from multiple subsurface investigations at the Site. The *Hydrogeologic Assessment Report* (Wood, 2022a) presents laboratory analysis of undisturbed samples collected from fine-grained sediment directly overlying the limestone indicate this material can exhibit a permeability on the order of 10^{-4} to 10^{-8} centimeters per second (cm/sec) or 10^{-1} to 10^{-5} feet per day (ft/day). These values are generally consistent with the published range of literature values for overburden materials in the Dougherty Plain area. Hayes, et al. (1983) estimated horizontal hydraulic conductivity ranging from 0.0004 feet/day to 30 feet/day with a median value of 0.002 feet/day for samples gathered in the Dougherty Plain.

A sample collected to the north of the study area of Hayes, et al. (1983) estimated a hydraulic conductivity value of 0.002 feet/day and a vertical hydraulic conductivity value of 0.001 feet/day.

Locally, the Ocala Limestone bedrock is characterized as a pink to white, slightly silty, friable to well indurated fossiliferous limestone. The contact between overburden and bedrock at the Site is noted as an abrupt and distinct change in color, texture, and carbonate content from the overburden to bedrock. The Ocala Limestone is often described in the boring logs as a fine to coarse calcareous sand with increasing consolidation and cementation with depth. The surface of the carbonate bedrock is highly irregular due to differential weathering. In general, the bedrock surface slopes from the Site toward the Flint River in the west and southwest, and toward the unnamed creek in the east. As described in the *Hydrogeologic Assessment Report* (Wood, 2022a), in-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 3.83×10^{-4} to 2.05×10^{-3} cm/sec or 1.08 to 5.81 feet/day with an average of 1.07×10^{-3} cm/sec or 3.04 feet/day.

1.2.2 SITE HYDROGEOLOGY

Two main hydrostratigraphic units are present at the Site: overburden (residuum) and carbonate bedrock and comprise the uppermost aquifer. The bedrock and lower part of the overburden are saturated. Where there is CCR/embankment material overlying the overburden and bedrock, it is predominantly unsaturated as indicated by several piezometers screened in the CCR/overburden contact. The monitoring well network for the Ash Ponds monitors the carbonate upper bedrock because the limestone yields usable, continuous, and persistent water, unlike the overlying overburden.

General groundwater flow in the bedrock aquifer is from the northern and eastern boundaries of the Site toward Ash Ponds 1 and 2 where a more dominant westerly flow direction is present as indicated on Figure 3: Potentiometric Surface Map – Upper Bedrock – September 18, 2023 and Figure 4: Potentiometric Surface Map – Upper Bedrock – February 26, 2024. The westerly flow direction is consistent with previously observed flow directions. Consistent with seasonal variations, the February 26, 2024 groundwater elevations were higher than the September 18, 2023 groundwater elevations. The September 18, 2023 and February 26, 2024 groundwater elevations were similar to previous events groundwater elevations.

1.3 GROUNDWATER MONITORING SYSTEM

Ash Ponds A, 1, and 2 are located adjacent to each other and are therefore considered to be one multi-unit for groundwater monitoring purposes. The groundwater monitoring system is described below.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer at Ash Ponds A, 1, and 2. The monitoring system is designed to monitor groundwater passing the waste boundary of the Ash Ponds A, 1, and 2 within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring points of Ash Ponds A, 1, and 2 based on groundwater flow direction. The monitoring well locations are shown in **Figure 2**

and **Table 1 Summary of Detection Monitoring Well and Piezometer Construction Data** provides construction details for the detection monitoring wells in the CCR monitoring network. The monitoring wells are supplemented with piezometers that are used for water level measurements only (**Table 1)**.

2 GROUNDWATER MONITORING ACTIVITIES

As required by 257.90(e), the following describes monitoring-related activities performed from July 2023 through June 2024. The second semi-annual 2023 event was initially started on August 28; however, a hurricane caused the event to be re-scheduled to September 18, 2023. The first semi-annual 2024 event was conducted February 26 to 29, 2024. The groundwater sampling was performed in September 2023 and February 2024 for assessment monitoring in accordance with § 257.93. Samples were collected from each of the monitoring wells listed in **Table 2: Groundwater Sampling Events**.

2.1 MONITORING WELL AND PIEZOMETER MAINTENACE

Monitoring well-related activities conducted during this period included the following:

- Monitoring wells are inspected semi-annually to determine if repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In September 2023 and February 2024, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A: Well Repairs and Inspections**. The inspection and repairs were performed under the direction of a professional geologist or engineer registered in the State of Georgia.
- A few minor repairs and maintenance activities were conducted on the wells during the September 2023 and February 2024 events and are summarized in the well repair memos in **Appendix A.**

2.2 PIEZOMETER ABANDONMENT

Construction activities associated with the removal and closure of Ash Ponds 1 and 2 necessitated the abandonment of nine piezometers located within and downgradient of the former ash ponds. The piezometers were included in permit documents and noted as "to be abandoned" during construction. A minor modification was submitted in September 2023 notifying EPD of the intent prior to abandonment. The piezometers were initially installed in support of the CCR program but were not a part of the certified CCR groundwater monitoring or water level gauging network. Eight of the nine piezometers (PZ-02A, PZ-02R, PZ-42, PZ-46, PZ-47, PZ-50, PZ-51, and PZ-52) were abandoned from September 11 to 13, 2023. One of the nine piezometers, PZ-45, could not be located in September 2023. Survey coordinates were used to locate the piezometer's position; however, there was no evidence of the piezometer. Piezometer PZ-45 was located during the February 2024 event and was marked. The piezometer appeared to be intact upon visual inspection and will be abandoned. The report documenting the abandonment of the eight piezometers is provided in **Appendix B: Abandonment of Select Piezometers.**

The Permit Drawings and *Groundwater Monitoring Plan* included as part of the CCR Permit Application have been updated to remove wells and piezometers that have been

abandoned since the submittal of the Application. The updated Permit Drawings and *Groundwater Monitoring Plan* (WSP 2024) were submitted to EPD on April 6, 2024.

2.3 ASSESSMENT MONITORING

Pursuant to § 257.94(e)(1), Georgia Power implemented assessment monitoring based on Statistically Significant Increases (SSIs) of Appendix III constituents identified in the initial detection monitoring event (March 2019). An Assessment Monitoring Program Notification was prepared for Ash Ponds A, 1, and 2 on November 13, 2019, pursuant to § 257.94(e)(3) and placed in the facility's Operating Record as required by § 257.105(h)(5).

Two semi-annual assessment monitoring events were conducted during this reporting period in September 2023 and February 2024. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring network wells were analyzed for Appendix III constituents and the full suite of Appendix IV constituents. Data reports for the September 2023 and February 2024 events are included in **Appendix C: Laboratory Analytical and Field Sampling Reports – September 2023 and February 2024.**

3 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to complete groundwater monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

3.1 GROUNDWATER ELEVATION MEASUREMENTS AND FLOW DIRECTION

Prior to each sampling event, groundwater elevations are recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the September 2023 and February 2024 monitoring events are summarized in **Table 3: Summary of Groundwater Elevations**. Groundwater elevation data from the monitoring events were used to develop a potentiometric surface elevation contour map (**Figure 3: Potentiometric Surface Map – Upper Bedrock – September 18, 2023**). The September 2023 and February 2024 groundwater elevations were calculated using the re-surveyed top of casing elevations from the June 15, 2020 survey by McKim & Creed. Groundwater flow in the carbonate upper bedrock **(Figures 3 and 4)** is to the west-southwest. The groundwater flow patterns observed during the September 2023 and February 2024 monitoring events are consistent with conditions observed during previous monitoring events. Consistent with seasonal variations, the February 26, 2024 groundwater elevations were higher than the September 18, 2023 groundwater elevations. The September 18, 2023 and February 26, 2024 groundwater elevations were similar to previous events groundwater elevations.

3.2 GROUNDWATER GRADIENT AND FLOW VELOCITY

The horizontal groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using the commonly used derivative of Darcy's Law. Specifically,

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

Where:

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

$K =$ Average hydraulic conductivity of the aquifer $\left(\frac{feet}{day}\right)$

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

$n_e =$ Effective porosity

Although Darcy's equation is primarily applicable to diffuse flow in porous media, it is also used where flow is analogous to conditions in a homogenous aquifer. Stewart, et al. (1999) states that "water flow in the Upper Floridan (Ocala Limestone) can be classified generally as (1) diffuse, where flow is analogous to conditions in homogenous aquifer, and can be described by using basic Darcian equations; and (2) conduit, where water flows in distinct conduits and surrounding rock has comparatively low porosity and low permeability." Based on the lack of karst features such as cavities in boring logs, the narrow range and

relatively low values of hydraulic conductivity, and relatively uniform potentiometric surface for the bedrock aquifer at the Site, the application of Darcy's equation produces approximate linear groundwater flow velocities for the shallow bulk carbonate bedrock aquifer.

Groundwater flow velocities were calculated using an average hydraulic conductivity value of 3.04 feet/day, and an effective porosity of 20 percent (Hayes, et al., 1983). **Table 4: Groundwater Flow Velocity Calculations** summarizes the groundwater flow velocities. Results for groundwater flow velocities in September 2023 and February 2024 ranged from 0.02 to 0.04 feet/day (7.3 to 14.6 feet/year). These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, therefore, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected for the September 2023 and February 2024 monitoring events in accordance with § 257.93(a). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The monitoring wells were purged and sampled using low-flow sampling procedures. Sampling equipment and pump intakes were placed at the midpoint of the well screen. Care was taken to maintain a water level above the top of screen and not draw the water level down below the pump during purging. Water level stabilization was achieved when three consecutive water level measurements vary by 0.3 foot or less at a pumping rate of no less than 100 milliliters per minute. An AquaTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen (DO), temperature, and oxidation-reduction potential (ORP) and a Hach 2100Q (or similar) portable turbidity meter was used to measure turbidity during well purging to verify stabilization prior to sampling. Groundwater samples were collected when the following stabilization criteria were met:

- pH ± 0.1 Standard Units (s.u.).
- Specific conductance ± 5 percent.
- DO ±10 percent or ±0.2 milligrams per liter (mg/L) (whichever is greater) for DO where DO> 0.5 mg/L. If DO< 0.5 mg/L no stabilization criteria apply
- Turbidity measurements less than 5 Nephelometric Turbidity Units, or between 5 and 10 NTUs after 3 hours of purging.

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 the analytical laboratory following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the monitoring events are provided in **Appendix C.**

3.4 LABORATORY ANALYSES

The full suites of Appendix III and IV constituents were analyzed during the September 2023 and February 2024 semi-annual events. Analytical methods used for groundwater sample analyses are listed on the analytical laboratory reports included in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners, Georgia, Asheville, North Carolina, and Greensburg, Pennsylvania. The Pace laboratories are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all constituents analyzed. In addition, Pace laboratories are certified to perform analysis by the State of Georgia. Groundwater data laboratory reports and chain of custody records for the monitoring events are presented in **Appendix C**.

3.5 GROUNDWATER ANALYTICAL RESULTS

Table 5: Analytical Data Summary – September 2023 and February 2024, summarizes the analytical data for the Appendix III and IV constituents for the semi-annual monitoring events. The complete laboratory and field data sheets are included in **Appendix C**. Time series data for the Appendix III and IV constituents are provided in **Appendix D: Statistical Analyses**.

3.6 QUALITY ASSURANCE & QUALITY CONTROL

During each sampling event, quality assurance/quality control (QA/QC) samples are collected. Equipment blanks (where non-dedicated sampling equipment is used) are collected at a rate of one QA/QC sample per 10 groundwater samples. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling event and were collected at a rate of one QA/QC sample per 20 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 20 groundwater samples. Quality assurance and quality control of the groundwater data was assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy, and analytical method requirements. The constituent concentrations were generally within the historical range of concentrations. The data quality evaluations are included in **Appendix C**.

The analytical results provided in **Table 5** provide concentrations from the most recent sampling event as reported by the laboratory. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a "U" flag indicate the constituent was not detected above the analytical minimum detectable concentration. The data are considered usable for meeting project objectives and the results are considered valid.

4 STATISTICAL ANALYSIS

The Site is currently in assessment monitoring. Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the groundwater monitoring network pursuant to § 257.93(f) and following the Professional Engineer-certified statistical analysis plans. The statistical analysis plan used at the Site was developed in April 2019 by Groundwater Stats Consulting in accordance with § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III constituent. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

Pursuant to § 257.95(d)(2), Georgia Power established groundwater protection standards (GWPS) for the Appendix IV monitoring constituents and conducted statistical analysis of the Appendix IV groundwater monitoring data obtained during the September 2023 and February 2024 semi-annual assessment monitoring events to evaluate if concentrations statistically exceeded the established GWPS. The following subsections provide an overview of the statistical methods used to evaluate Appendix III and IV constituents and statistical analyses results.

4.1 STATISTICAL METHOD

Sanitas groundwater statistical software was used to perform the statistical analyses at the Site. Sanitas is a commercially available decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance (US EPA, 2009) document. The Sanitas groundwater statistical software was used to perform the statistical analyses of groundwater quality semi-annual data obtained in September 2023 and February 2024. The interwell statistical method was used for the analysis of the Appendix III constituents. Confidence intervals were calculated for each of the detected Appendix IV constituents in each downgradient well. **Table 6: Statistical Method Summary** provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the semi-annual monitoring events conducted in September 2023 and February 2024 and will be used for routine monitoring in the future. Specific methodology information is described in the following paragraphs.

4.1.1 APPENDIX III STATISTICAL METHOD

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification re-sample plan for each of the Appendix III constituents. The interwell prediction limits were used to evaluate the full suite of Appendix III constituents. When using the interwell method, upgradient well data are pooled to establish a background statistical limit (PL) for each constituent. Pooled concentrations from Site upgradient wells (PZ-1D, PZ-2D, PZ-31, PZ-32) were used to establish the prediction limit for each individual Appendix III constituent. Appendix III constituent concentrations from the semi-annual September 2023 and February 2024

monitoring events were compared to the interwell prediction limits to evaluate whether downgradient well concentrations exceed background statistical limits. When a constituent concentration exceeds the PL, a statistically significant increase (SSI) exceedance is identified.

If data from a sampling event initially exceeds the PL, an optional resampling strategy can be used to verify the result as described in Section 4.1 and **Table 6**. A confirmed exceedance is only noted when the re-sample confirms the initial exceedance by also exceeding the prediction limit or if re-sampling is not performed. If the re-sample does not exceed the PL, then there is no SSI.

4.1.2 APPENDIX IV STATISTICAL METHOD

The assessment monitoring program statistics for Appendix IV constituents at Plant Mitchell were conducted in two parts. The first part was the calculation of tolerance limits for site-specific background limits for Appendix IV constituents. The second part was the calculation of confidence intervals for individual downgradient well/constituent pairs.

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for barium and radium. When data contained greater than 50 percent 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 GWPS under 40 CFR § 257.95(h).

On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Effective on February 22, 2022, GA EPD has incorporated the updated GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). As described in the updated rules, the 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, Federal and State CCR Rules specify levels 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 specified GWPS

Following the above rule requirements, GWPSs were established for statistical comparison of Appendix IV constituents for the September 2023 and February 2024 sampling events. **Table 7: Summary of Groundwater Protection Standards** summarizes the GWPSs established for each event for the Appendix IV constituents. The background levels for each event are summarized in **Appendix D**.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well for each event. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the GA EPD Rules 391-3-4-.10(6)(a). 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, an SSL exceedance is identified.

4.2 STATISTICAL ANALYSES RESULTS – APPENDIX III

The statistical analysis and comparison to prediction limits are included as **Appendix D**. Based on review of the full Appendix III statistical analysis discussion presented in **Appendix D**, groundwater conditions have not returned to background concentrations and assessment monitoring should continue to be conducted.

4.3 STATISTICAL ANALYSES RESULTS – APPENDIX IV

Appendix D shows the individual well/constituent pairs with their respective confidence intervals in comparison to the respective constituent GWPS. There are no confidence intervals of the individual well/constituent pairs above a GWPS, established according to GA EPD Rules 391-3-4-.10(6)(a). Therefore, no SSLs were identified for the September 2023 and February 2024 sampling events.

5 MONITORING PROGRAM STATUS

The Plant Mitchell Ash Ponds A, 1, and 2 CCR multi-unit is in assessment monitoring due to the detection of SSIs of Appendix III constituents initially in March 2019. Similar SSIs of Appendix III constituents were detected in the September 2023 and February 2024 semi-annual events. No SSLs were identified for the Appendix IV constituents during the September 2023 and February 2024 events. Pursuant to § 257.95, Georgia Power will continue assessment monitoring at Plant Mitchell Ash Ponds A, 1, and 2.

6 CONCLUSIONS & FUTURE ACTIONS

This *2024 Annual Groundwater Monitoring & Corrective Action Report* for Georgia Power's Plant Mitchell Ash Ponds A, 1, and 2 was prepared to fulfill the requirements of Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for Plant Mitchell Ash Ponds A, 1, and 2 identified SSIs of Appendix III groundwater monitoring constituents. Georgia Power has initiated assessment monitoring pursuant to the requirements of § 257.95. The next semi-annual assessment sampling event is planned for August-September 2024. The next semi-annual assessment monitoring event will include sampling and analysis of the full suites of Appendix III and Appendix IV constituents.

7 REFERENCES

Clark, W.Z., and Zisa, A.C., 1976. Physiographic Map of Georgia: 1:2,000,000, Georgia Department of Natural Resources, Geologic and Water Resources Division, Atlanta, Georgia.

Georgia Department of Natural Resources, Environmental Protection Division, November 2016. Solid Waste Management Coal Combustion Residuals 391-3-4-.10.

Gordon, D.W., and Gonthier, G., 2017. Hydrology of the Claiborne Aquifer and Interconnection with the Upper Floridan Aquifer in Southwest Georgia: U.S. Geological Survey Scientific Investigations, Report 2017–5017, 49 p.

Hayes, L.R., Maslia, M.L., Meeks, W.C., 1983. Hydrology and Model Evaluation of the Principal Artesian Aquifer, Dougherty Plain, Southwest Georgia: Georgia Geologic Survey Bulletin 97, 93 p.

Hicks, D.W., Krause, R.E., and Clarke, J.S., 1981. Geohydrology of the Albany area, Georgia: Georgia Geologic Survey Information Circular 57, 31 p.

Sanitas: Groundwater Statistical Software, Sanitas Technologies, Shawnee, KS, 2007. www.sanitastech.com.

Southern Company Services, Inc., 1995a. A Chronological History of the Ash Ponds at Plant Mitchell, Albany, Georgia: Georgia Power Company.

Southern Company Services, Inc., 1995b. Geophysical Survey Drawing E5330, Albany, Georgia: Georgia Power Company.

Stewart, L.M., Warner, D., and Dawson, B.J., 1999. Hydrogeology and Water Quality of the Upper Floridan Aquifer, Western Albany Area, Georgia: U. S. Geological Survey Water-Resources Investigations, Report 99-4140, 49 p.

US EPA, 2000. Guidance for Data Quality Assessment: Practical Methods for Data Analysis; US EPA QA/G-9, QA00 Update. Environmental Protection Agency Report US EPA/600/R-96/084, Office of Environmental Information, Washington, D.C.

US EPA, 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March 2009.

US EPA, 2015. 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.

US EPA, 2017. National Functional Guidelines for Inorganic Superfund Methods Data, Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

Watson, T.W., 1981. Geohydrology of the Dougherty Plain and Adjacent Area Southwest, Georgia: Georgia Geologic Survey Hydrologic Atlas 5.

Wood 2022a. Wood Environment & Infrastructure Solutions, Inc., *Hydrogeologic Assessment Report*, Plant Mitchell – Ash Ponds A, 1 & 2, Dougherty and Mitchell Counties, Georgia, March 2022.

Wood 2022b. Wood Environment & Infrastructure Solutions, Inc., *Groundwater Monitoring Plan*, Plant Mitchell – Ash Ponds A, 1 & 2, Dougherty and Mitchell Counties, Georgia, March 2022.

WSP 2024. WSP USA E & I, Inc., *Groundwater Monitoring Plan*, Plant Mitchell – Ash Ponds A, 1 & 2, Dougherty and Mitchell Counties, Georgia, January 2024.

TABLES

TABLE 1
SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
DETECTION MONITORING WELLS										
PZ-1D	06/11/2014	526353.9	2307362.8	193.44	196.44	125.8	115.8	78.0	Bedrock	Upgradient
PZ-2D	06/10/2014	526067.3	2308155.4	175.64	178.51	108.0	98.0	78.0	Bedrock	Upgradient
PZ-7D	06/03/2014	521425.1	2305995.3	170.28	173.08	123.7	113.7	57.0	Bedrock	Downgradient
PZ-14	07/25/2016	521473.1	2306804.8	180.85	183.46	140.9	130.9	50.0	Bedrock	Downgradient
PZ-15	07/23/2016	521600.2	2305357.3	167.38	170.37	97.4	87.4	80.0	Bedrock	Downgradient
PZ-16	07/25/2016	522125.0	2305359.9	171.21	173.92	131.2	121.2	50.0	Bedrock	Downgradient
PZ-17	07/22/2016	522587.9	2305886.7	170.12	172.91	120.1	110.1	60.0	Bedrock	Downgradient
PZ-18	07/23/2016	523145.7	2306142.3	167.34	170.11	117.3	107.3	60.0	Bedrock	Downgradient
PZ-19	07/13/2016	523582.1	2306153.6	169.40	172.05	120.4	110.4	60.0	Bedrock	Downgradient
PZ-23A	03/10/2020	523831.5	2307743.4	189.06	191.85	134.6	124.6	64.5	Bedrock	Downgradient
PZ-25	07/20/2016	524492.6	2306152.0	168.24	171.14	118.2	108.2	60.0	Bedrock	Downgradient
PZ-31	10/13/2016	526996.3	2306857.6	180.32	182.96	133.3	123.3	57.0	Bedrock	Upgradient
PZ-32	10/13/2016	526078.7	2307723.7	178.19	180.75	126.2	116.2	62.0	Bedrock	Upgradient
PZ-33	10/2/2016	522212.6	2307233.9	187.08	189.61	126.7	116.7	70.4	Bedrock	Downgradient
PZ-57	11/04/2021	522849.9	2306107.5	166.54	169.35	107.0	97.0	70.0	Bedrock	Downgradient

TABLE 1
SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
PIEZOMETERS										
PZ-01R	02/10/2016	524398.0[4]	2306492.9[4]	188.2[4]	191.87[4]	132.2	122.2	66.7	Overburden (Clay)/Bedrock	Downgradient
PZ-1S	6/11/2014	526357.1	2307356.7	193.43	196.52	145.8	135.8	58.0	Overburden (Clay)	Upgradient
PZ-02R[5]	2/3/2016	522696.6[4]	2306666.5[4]	188.5[4]	191.66[4]	131.3	121.3	67.5	Overburden (Clay)/Bedrock	Downgradient
PZ-2S	06/10/2014	526066.7	2308163.4	175.63	178.61	131.6	121.6	54.4	Overburden (Sandy Clay)	Upgradient
PZ-3D	05/28/2014	525373.20	2307918.10	188.08	190.98	110.5	100.5	88.0	Bedrock	Upgradient
PZ-3S	5/28/2014	525365.6	2307918.8	188.14	191.12	138.5	128.5	60.0	Overburden (Sand/Clayey Sand)	Upgradient
PZ-4D	05/29/2014	524198.2	2308009.5	188.25	191.10	142.7	132.7	56.0	Bedrock	Downgradient
PZ-4S	5/29/2014	524192.1	2308005.0	188.42	191.20	163.8	153.8	35.0	Overburden (Sand/Clay)	Downgradient
PZ-6S	06/13/2014	522254.0	2307207.5	186.52	189.47	148.9	138.9	48.0	Overburden (Clay)	Downgradient
PZ-7S	6/3/2014	521424.4	2306002.8	170.10	173.10	146.5	136.5	34.0	Overburden (Clay)	Downgradient
PZ-8D	06/05/2014	521442.1	2305207.9	167.24	170.35	100.6	90.6	77.0	Bedrock	Downgradient
PZ-8S	06/05/2014	521440.2	2305217.4	167.67	170.78	142.9	132.9	35.2	Overburden (Sand)	Downgradient
PZ-9D	06/04/2014	521770.9	2305127.5	163.18	166.16	126.6	116.6	47.0	Bedrock	Downgradient
PZ-9S	06/05/2014	521763.7	2305125.7	163.06	166.02	145.5	135.5	28.0	Overburden (Sand)/Bedrock	Downgradient
PZ-10S	06/03/2014	522465.8	2305401.6	172.64	175.63	137.0	127.0	46.0	Bedrock	Downgradient
PZ-12S	06/04/2014	523794.9	2305676.8	170.93	173.92	133.3	123.3	48.0	Bedrock	Downgradient
PZ-13S	6/6/2014	524467.0	2305810.0	170.23	173.22	132.6	122.6	48.0	Overburden (Clay)	Downgradient
PZ-20	07/14/2016	524025.0	2306152.6	170.62	173.44	121.1	111.1	60.0	Bedrock	Downgradient
PZ-21	07/29/2016	524639.5	2306932.0	177.08	179.84	117.1	107.1	70.0	Bedrock	Downgradient
PZ-22	07/28/2016	524622.4	2307749.0	184.76	187.69	134.8	124.8	60.0	Bedrock	Downgradient
PZ-24A	03/06/2020	523151.8	2307445.9	192.25	194.97	142.3	132.3	60.0	Bedrock	Downgradient

TABLE 1
SUMMARY OF DETECTION MONITORING WELL AND PIEZOMETER CONSTRUCTION DATA
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Installation Date	Northing[1]	Easting[1]	Ground Surface Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Casing Elevation (feet NAVD88)[2] (June 2020 Re-survey)	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location
PIEZOMETERS - continued										
PZ-27	10/04/2016	522440.4	2305235.1	161.88	164.58	123.6	113.6	48.3	Bedrock	Downgradient
PZ-28	10/13/2016	522953.9	2305347.3	163.49	165.96	126.5	116.5	47.0	Bedrock	Downgradient
PZ-29	10/04/2016	523857.8	2305593.0	170.42	173.18	123.9	113.9	56.5	Bedrock	Downgradient
MW-101	2/14/1995	524507.6	2306160.1	168.14	170.93	154.8	145.3	23.4	Overburden (Sand and Clay)	Downgradient
MW-102	02/22/1995	524508.2	2306153.6	168.10	170.93	132.3	122.8	45.9	Bedrock	Downgradient
MW-111	02/21/1995	521618.2	2305308.8	165.28	168.06	128.3	118.8	47.0	Bedrock	Downgradient
MW-113	02/21/1995	522357.4	2305578.4	171.88	174.61	129.6	120.1	52.4	Bedrock	Downgradient
MW-116	02/23/1995	523649.9	2306082.5	168.93	171.69	100.9	94.5	75.0	Bedrock	Downgradient
MW-120	2/24/1995	525216.0	2307100.9	191.03	193.79	153.0	143.5	48.3	Overburden (Clay)/Bedrock	Downgradient

Notes:

(1) Coordinates are North American Datum of 1983 (NAD 83) (2011) Georgia State Plane, West Zone. Monitoring wells were re-surveyed by McKim & Creed, Inc. on June 15, 2020.

(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988. Monitoring wells were re-surveyed by McKim & Creed, Inc. on June 15, 2020.

(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey.

(4) Coordinates and elevations for piezometers PZ-01R and PZ-02R are from E&CS Civil Field Services March 2, 2016.
PZ-01R and PZ-02R were not re-surveyed in June 2020 as the piezometers were not accessible due to construction activities.

(5) Piezometer PZ-02R was abandoned on September 12, 2023.

TABLE 2
GROUNDWATER SAMPLING EVENTS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Ash Ponds Detection Monitoring Wells
		September 19, 2023 - September 21, 2023	February 27, 2024 - February 29, 2024	
Purpose of Sampling Event		Assessment	Assessment	
ASH PONDS DETECTION				
PZ-1D	Upgradient	X	X	Assessment Monitoring
PZ-2D	Upgradient	X	X	Assessment Monitoring
PZ-31	Upgradient	X	X	Assessment Monitoring
PZ-32	Upgradient	X	X	Assessment Monitoring
PZ-7D	Downgradient	X	X	Assessment Monitoring
PZ-14	Downgradient	X	X	Assessment Monitoring
PZ-15	Downgradient	X	X	Assessment Monitoring
PZ-16	Downgradient	X	X	Assessment Monitoring
PZ-17	Downgradient	X	X	Assessment Monitoring
PZ-18	Downgradient	X	X	Assessment Monitoring
PZ-19	Downgradient	X	X	Assessment Monitoring
PZ-23A	Downgradient	X	X	Assessment Monitoring
PZ-25	Downgradient	X	X	Assessment Monitoring
PZ-33	Downgradient	X	X	Assessment Monitoring
PZ-57	Downgradient	X	X	Assessment Monitoring

Notes:
1. X - indicates well sampled during event

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS

Georgia Power Company - Plant Mitchell

Ash Ponds A, 1, and 2

Putney, Georgia

Well ID	Groundwater Zone Screened	Top of Casing Elevation (feet NAVD88)[1] (June 2020 Re-survey)	Depth to Water (feet below TOC)[2]	Groundwater Elevation (feet NAVD88)[3]	Depth to Water (feet below TOC)[2]	Groundwater Elevation (feet NAVD88)[3]
Measurement Date			9/18/2023	9/18/2023	2/26/2024	2/26/2024
MW-101	Overburden (Sand and Clay)	170.93	20.51	150.42	14.64	156.29
MW-102	Bedrock	170.93	33.28	137.65	25.95	144.98
MW-111	Bedrock	168.06	31.48	136.58	25.17	142.89
MW-113	Bedrock	174.61	37.23	137.38	28.80	145.81
MW-116	Bedrock	171.69	34.65	137.04	27.19	144.50
MW-120	Overburden (Clay)/Bedrock	193.79	Dry	Dry	45.69	148.10
PZ-1D	Bedrock	196.44	55.13	141.31	46.31	150.13
PZ-01R	Overburden (Clay)/Bedrock	191.87[4]	54.41	137.46	47.39	144.48
PZ-1S	Overburden (Clay)	196.52	37.94	158.58	35.93	160.59
PZ-2D	Bedrock	178.51	38.66	139.85	29.80	148.71
PZ-02R	Overburden (Clay)/Bedrock	191.66[4]	Abandoned		Abandoned	
PZ-2S	Overburden (Sandy Clay)	178.61	38.74	139.87	29.88	148.73
PZ-3D	Bedrock	190.98	51.34	139.64	42.59	148.39
PZ-3S	Overburden (Sand/Clayey Sand)	191.12	48.26	142.86	39.40	151.72
PZ-4D	Bedrock	191.10	51.89	139.21	43.46	147.64
PZ-4S	Overburden (Sand/Clay)	191.20	27.75	163.45	22.79	168.41
PZ-6S	Overburden (Clay)	189.47	24.47	165.00	16.95	172.52
PZ-7D	Bedrock	173.08	36.21	136.87	29.00	144.08
PZ-7S	Overburden (Clay)	173.10	34.98	138.12	28.91	144.19
PZ-8D	Bedrock	170.35	33.79	136.56	27.36	142.99
PZ-8S	Overburden (Sand)	170.78	32.57	138.21	19.39	151.39
PZ-9D	Bedrock	166.16	29.45	136.71	22.74	143.42
PZ-9S	Overburden (Sand)/Bedrock	166.02	29.12	136.90	22.84	143.18
PZ-10S	Bedrock	175.63	38.81	136.82	29.29	146.34
PZ-12S	Bedrock	173.92	36.92	137.00	29.84	144.08
PZ-13S	Overburden (Clay)	173.22	35.73	137.49	29.23	143.99
PZ-14	Bedrock	183.46	46.05	137.41	37.97	145.49
PZ-15	Bedrock	170.37	33.73	136.64	26.86	143.51
PZ-16	Bedrock	173.92	37.15	136.77	28.78	145.14
PZ-17	Bedrock	172.91	35.95	136.96	28.11	144.80
PZ-18	Bedrock	170.11	33.06	137.05	25.81	144.30
PZ-19	Bedrock	172.05	34.94	137.11	27.42	144.63
PZ-20	Bedrock	173.44	36.20	137.24	28.81	144.63
PZ-21	Bedrock	179.84	41.66	138.18	33.94	145.90
PZ-22	Bedrock	187.69	48.89	138.80	40.13	147.56
PZ-23A	Bedrock	191.85	52.79	139.06	45.15	146.70
PZ-24A	Bedrock	194.97	56.68	138.29	49.37	145.60
PZ-25	Bedrock	171.14	33.50	137.64	26.15	144.99
PZ-27	Bedrock	164.58	27.80	136.78	18.07	146.51
PZ-28	Bedrock	165.96	29.06	136.90	21.15	144.81
PZ-29	Bedrock	173.18	36.18	137.00	29.36	143.82
PZ-31	Bedrock	182.96	41.75	141.21	32.80	150.16
PZ-32	Bedrock	180.75	40.71	140.04	31.41	149.34
PZ-33	Bedrock	189.61	51.87	137.74	44.13	145.48
PZ-57[5]	Bedrock	169.35	32.34	137.01	24.89	144.46

Notes:

(1) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Elevations are from June 15, 2020 re-survey of the monitoring wells and piezometers by McKim & Creed, Inc.

(2) TOC - Top of Casing

(3) Groundwater elevations for 2023-2024 are calculated using TOC elevations from the June 15, 2020 re-survey.

(4) Coordinates and elevations for piezometers PZ-01R and PZ-02R are from E&CS Civil Field Services March 2, 2016.
PZ-01R and PZ-02R were not re-surveyed in June 2020 as the piezometers were not accessible due to construction activities.
PZ-02R was abandoned on 9/12/2023.

(5) Well PZ-57 construction was completed on November 4, 2021 and was surveyed December 10, 2021 by McKim & Creed, Inc.
Groundwater elevations of wells and piezometers screened in the bedrock were used to generate potentiometric contours on the potentiometric maps.

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwater Elevations in Well Pairs (h_1, h_2) (feet)		Change in Elevation (Δh) (feet)	Distance Between Location 1 and 2 Measured Along Estimated Flow Path (L) (feet)	Hydraulic Gradient (i) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
September 2023	Limestone	PZ-1D to PZ-01R	141.31	137.46	3.85	2218	0.002	3.04	0.20	0.03	11.0
September 2023	Limestone	PZ-23A to PZ-19	139.06	137.11	1.95	1608	0.001	3.04	0.20	0.02	7.3
February 2024	Limestone	PZ-1D to PZ-01R	150.13	144.48	5.65	2218	0.003	3.04	0.20	0.04	14.6
February 2024	Limestone	PZ-23A to PZ-19	146.70	144.63	2.07	1608	0.001	3.04	0.20	0.02	7.3

Notes:

1. In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 1.08 to 5.81 feet/day with an average of 3.04 feet/day.
2. Effective porosity of 20% was selected for Ocala Limestone from Hydrology and Model Evaluation of the Principal Artesian Aquifer, Dougherty Plain, Southwest Georgia: Georgia Geologic Survey Bulletin 97 (Hayes, L.R., Maslia, M.L., Meeks, W.C., 1983)
3. Groundwater flow velocity equation: $V = (K * i)/n_e$

TABLE 5
ANALYTICAL DATA SUMMARY - SEPTEMBER 2023 AND FEBRUARY 2024
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chloride	Chromium	Cobalt	Fluoride
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
PZ-1D	09/19/2023	< 0.0012	< 0.0037	0.014	< 0.000054	0.024 J	< 0.00011	44.7	2.9	0.0015 J	< 0.00039	0.060 J
PZ-1D	02/28/2024	0.00059 J	< 0.00084	0.017	< 0.000094	0.016 J	< 0.00010	55.0	2.8	< 0.0019	0.00037 J	< 0.050
PZ-2D	09/19/2023	< 0.0012	< 0.0037	0.0027 J	< 0.000054	0.011 J	< 0.00011	13.7	2.3	0.0071	< 0.00039	0.094 J
PZ-2D	02/27/2024	0.00073 J	< 0.00084	0.0035 J	< 0.000094	< 0.012	< 0.00010	19.2	2.4	0.0090	< 0.00032	0.084 J
PZ-31	09/19/2023	0.0042	< 0.0037	0.0071	< 0.000054	0.022 J	< 0.00011	86.9	3.4	0.0012 J	< 0.00039	0.053 J
PZ-31	02/28/2024	0.0025 J	< 0.00084	0.0079	< 0.000094	0.016 J	< 0.00010	99.9	3.1	< 0.0019	< 0.00032	0.060 J
PZ-32	09/19/2023	< 0.0012	< 0.0037	0.015	< 0.000054	0.011 J	< 0.00011	64.6	2.6	< 0.0011	< 0.00039	< 0.050
PZ-32	02/27/2024	< 0.00054	< 0.00084	0.015	< 0.000094	< 0.012	< 0.00010	67.5	2.5	< 0.0019	< 0.00032	< 0.050
PZ-7D	09/20/2023	< 0.0012	< 0.0037	0.0059	< 0.000054	0.19	< 0.00011	94.3	3.4	0.0022 J	< 0.00039	< 0.050
PZ-7D	02/28/2024	0.00089 J	< 0.00084	0.0060	< 0.000094	0.17	< 0.00010	104	3.3	0.0025 J	< 0.00032	< 0.050
PZ-14	09/20/2023	< 0.0012	< 0.0037	0.010	< 0.000054	0.027 J	< 0.00011	98.2	4.3	0.0020 J	< 0.00039	< 0.050
PZ-14	02/29/2024	< 0.00054	< 0.00084	0.013	< 0.000094	0.030 J	< 0.00010	103	4.3	< 0.0019	< 0.00032	< 0.050
PZ-15	09/20/2023	< 0.0012	< 0.0037	0.050	< 0.000054	0.18	< 0.00011	89.3	6.2	< 0.0011	< 0.00039	0.064 J
PZ-15	02/28/2024	< 0.00054	< 0.00084	0.058	< 0.000094	0.20	< 0.00010	95.4	5.9	< 0.0019	< 0.00032	0.059 J
PZ-16	09/19/2023	< 0.0012	< 0.0037	0.038	< 0.000054	0.19	< 0.00011	83.3	5.9	< 0.0011	< 0.00039	< 0.050
PZ-16	02/29/2024	< 0.00054	< 0.00084	0.034	< 0.000094	0.18	< 0.00010	89.9	5.9	< 0.0019	< 0.00032	< 0.050
PZ-17	09/20/2023	< 0.0012	< 0.0037	0.058	< 0.000054	0.10	< 0.00011	73.3	2.1	< 0.0011	< 0.00039	0.073 J
PZ-17	02/29/2024	0.00076 J	< 0.00084	0.052	< 0.000094	0.13	< 0.00010	87.8	2.4	< 0.0019	< 0.00032	0.068 J
PZ-18	09/20/2023	0.0040	< 0.0037	0.022	< 0.000054	0.41	< 0.00011	129	4.2	< 0.0011	< 0.00039	< 0.050
PZ-18	02/29/2024	< 0.00054	< 0.00084	0.031	< 0.000094	0.35	< 0.00010	152	4.1	< 0.0019	< 0.00032	< 0.050
PZ-19	09/20/2023	< 0.0012	< 0.0037	0.053	< 0.000054	0.62	< 0.00011	143	4.1	< 0.0011	< 0.00039	0.082 J
PZ-19	02/29/2024	< 0.00054	< 0.00084	0.051	< 0.000094	0.43	< 0.00010	146	3.3	< 0.0019	< 0.00032	0.078 J
PZ-23A	09/20/2023	< 0.0012	< 0.0037	0.035	< 0.000054	0.15	< 0.00011	131	2.8	0.0020 J	< 0.00039	0.062 J
PZ-23A	02/28/2024	< 0.00054	< 0.00084	0.036	< 0.000094	0.12	< 0.00010	144	3.6	0.0020 J	< 0.00032	0.070 J
PZ-25	09/19/2023	< 0.0012	< 0.0037	0.11	< 0.000054	0.18	< 0.00011	80.3	1.6	< 0.0011	0.0017 J	0.14
PZ-25	02/27/2024	< 0.00054	< 0.00084	0.13	< 0.000094	0.17	< 0.00010	94.6	1.5	< 0.0019	0.0017 J	0.13
PZ-33	09/21/2023	< 0.0012	< 0.0037	0.041	< 0.000054	0.45	< 0.00011	81.4	2.8	< 0.0011	< 0.00039	0.074 J
PZ-33	02/29/2024	< 0.00054	< 0.00084	0.039	< 0.000094	0.32	< 0.00010	100	2.7	< 0.0019	< 0.00032	0.068 J
PZ-57	09/21/2023	< 0.0012	< 0.0037	0.062	< 0.000054	0.20	< 0.00011	79.5	2.0	0.0013 J	< 0.00039	0.074 J
PZ-57	02/29/2024	< 0.00054	< 0.00084	0.052	< 0.000094	0.17	< 0.00010	101	1.9	0.0032 J	< 0.00032	0.067 J

Notes:

1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (s.u.).
2. < indicates the constituent was not detected above the analytical method detection limit.
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit.
   Therefore, the value displayed (J) is qualified by the laboratory as an estimated number.
4. Radium units are in picocuries per liter (pCi/L). Radium data are a combination of radium isotopes 226 and 228.
5. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce as reliable of a value.
   Therefore, the value followed by U is qualified by the laboratory as estimated.
6. TDS = Total Dissolved Solids

wsp

TABLE 5
ANALYTICAL DATA SUMMARY - SEPTEMBER 2023 AND FEBRUARY 2024
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Well Name	Sample Date	Lead	Lithium	Mercury	Molybdenum	pH	Radium	Selenium	Sulfate	Thallium	TDS
Units		mg/L	mg/L	mg/L	mg/L	s.u.	pCi/L	mg/L	mg/L	mg/L	mg/L
PZ-1D	09/19/2023	< 0.00012	< 0.00073	< 0.00013	0.0013 J	7.44	0.550 U	< 0.0014	2.2	0.00028 J	146
PZ-1D	02/28/2024	< 0.00016	< 0.0016	< 0.00013	0.00083 J	7.41	0.498 U	< 0.00096	< 0.50	< 0.00038	176
PZ-2D	09/19/2023	< 0.00012	< 0.00073	< 0.00013	0.00080 J	8.82	0.769 U	< 0.0014	3.2	< 0.00018	86.0
PZ-2D	02/27/2024	< 0.00016	< 0.0016	< 0.00013	0.00069 J	8.49	0.588 U	< 0.00096	2.6	< 0.00038	75.0
PZ-31	09/19/2023	< 0.00012	0.00079 J	< 0.00013	< 0.00074	7.02	1.07 U	< 0.0014	0.61 J	< 0.00018	265
PZ-31	02/28/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.11	0.186 U	< 0.00096	0.54 J	< 0.00038	276
PZ-32	09/19/2023	< 0.00012	< 0.00073	< 0.00013	< 0.00074	7.43	0.804 U	< 0.0014	1.5	< 0.00018	217
PZ-32	02/27/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.39	1.41	< 0.00096	1.4	< 0.00038	192
PZ-7D	09/20/2023	< 0.00012	0.0023 J	< 0.00013	< 0.00074	7.15	0.623 U	0.0015 J	40.7	< 0.00018	302
PZ-7D	02/28/2024	< 0.00016	0.0024 J	< 0.00013	< 0.00062	7.07	0.676 U	0.0019 J	40.3	< 0.00038	325
PZ-14	09/20/2023	< 0.00012	< 0.00073	< 0.00013	< 0.00074	6.94	0.707 U	< 0.0014	12.5	< 0.00018	293
PZ-14	02/29/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.07	0.433 U	< 0.00096	13.3	< 0.00038	308
PZ-15	09/20/2023	< 0.00012	0.0014 J	< 0.00013	< 0.00074	7.07	0.644 U	< 0.0014	74.9	< 0.00018	328
PZ-15	02/28/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.18	0.948 U	< 0.00096	77.4	< 0.00038	342
PZ-16	09/19/2023	< 0.00012	< 0.00073	< 0.00013	< 0.00074	7.08	0.531 U	< 0.0014	37.5	< 0.00018	298
PZ-16	02/29/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.19	0.463 U	< 0.00096	37.9	< 0.00038	292
PZ-17	09/20/2023	< 0.00012	0.0012 J	< 0.00013	< 0.00074	7.16	0.684 U	< 0.0014	34.3	0.00024 J	256
PZ-17	02/29/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.20	0.621 U	< 0.00096	45.4	< 0.00038	277
PZ-18	09/20/2023	< 0.00012	0.0028 J	< 0.00013	< 0.00074	6.76	0.784 U	< 0.0014	93.8	< 0.00018	451
PZ-18	02/29/2024	< 0.00016	0.0054 J	< 0.00013	< 0.00062	6.94	0.228 U	< 0.00096	92.7	< 0.00038	473
PZ-19	09/20/2023	< 0.00012	0.014 J	< 0.00013	0.0019 J	6.83	1.02 U	0.0024 J	83.4	0.00052 J	512
PZ-19	02/29/2024	< 0.00016	0.012 J	< 0.00013	0.0018 J	6.82	0.744 U	0.0043 J	71.5	0.00050 J	470
PZ-23A	09/20/2023	< 0.00012	0.00088 J	< 0.00013	< 0.00074	6.86	0.235 U	0.0023 J	44.3	< 0.00018	421
PZ-23A	02/28/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	6.79	0.261 U	0.0018 J	33.5	< 0.00038	430
PZ-25	09/19/2023	< 0.00012	0.0064 J	< 0.00013	< 0.00074	7.18	1.21 U	< 0.0014	34.7	0.00061 J	311
PZ-25	02/27/2024	< 0.00016	0.0070 J	< 0.00013	< 0.00062	7.13	0.437 U	< 0.00096	34.0	0.00065 J	287
PZ-33	09/21/2023	< 0.00012	< 0.00073	< 0.00013	< 0.00074	7.05	0.809 U	< 0.0014	34.8	< 0.00018	300
PZ-33	02/29/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.14	0.478 U	< 0.00096	32.2	< 0.00038	314
PZ-57	09/21/2023	< 0.00012	0.00089 J	< 0.00013	< 0.00074	7.21	0.401 U	< 0.0014	66.7	< 0.00018	311
PZ-57	02/29/2024	< 0.00016	< 0.0016	< 0.00013	< 0.00062	7.13	0.700 U	< 0.00096	65.1	< 0.00038	334

Notes:

1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units (s.u.).
2. < indicates the constituent was not detected above the analytical method detection limit.
3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit. Therefore, the value displayed (J) is qualified by the laboratory as an estimated number.
4. Radium units are in picocuries per liter (pCi/L). Radium data are a combination of radium isotopes 226 and 228.
5. U indicates the constituent was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value followed by U is qualified by the laboratory as estimated.
6. TDS = Total Dissolved Solids

TABLE 6
STATISTICAL METHOD SUMMARY
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1, and 2
Putney, Georgia

Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available.
	Statistical Limits	Interwell statistical limits will be applied on a parameter basis, depending on the appropriateness of the method as determined by the Analysis of Variance.
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable. Non-parametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Management of Non-Detects	When data contain less than 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 quantitation 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.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters containing 100% non-detects (US EPA Unified Guidance, 2009, Chapter 6).
	Verification Re-sample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.
	Optional	▪ Initial statistical exceedance warrants optional independent re-sampling within 90 days. ▪ If re-sample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If re-sample exceeds, well/parameter has a confirmed SSI. ▪ If no re-sample is collected, the original result is deemed verified.

TABLE 7

SUMMARY OF GROUNDWATER PROTECTION STANDARDS

Georgia Power Company - Plant Mitchell

Ash Ponds A, 1, and 2

Putney, Georgia

Constituent	Units	MCL	Federal Regional Screening Level [1]	Site-Specific Background September 2023	Site-Specific Background February 2024	GWPS [4] September 2023	GWPS [4] February 2024
Antimony	mg/L	0.006		0.0042	0.0042	0.006	0.006
Arsenic	mg/L	0.01		0.005	0.005	0.01	0.01
Barium	mg/L	2.0		0.0456	0.045	2.0	2.0
Beryllium	mg/L	0.004		0.0005	0.0005	0.004	0.004
Cadmium	mg/L	0.005		0.0005	0.0005	0.005	0.005
Chromium	mg/L	0.1		0.011	0.011	0.1	0.1
Cobalt [2]	mg/L		0.006	0.005	0.005	0.006	0.006
Combined Radium	pCi/L	5.0		1.61	1.61	5.0	5.0
Fluoride	mg/L	4.0		0.29	0.29	4.0	4.0
Lead [2] [3]	mg/L		0.015	0.001	0.001	0.015	0.015
Lithium [2]	mg/L		0.04	0.03	0.03	0.04	0.04
Mercury	mg/L	0.002		0.0002	0.0002	0.002	0.002
Molybdenum [2]	mg/L		0.1	0.01	0.01	0.1	0.1
Selenium	mg/L	0.05		0.005	0.005	0.05	0.05
Thallium	mg/L	0.002		0.001	0.001	0.002	0.002

Notes:

mg/L - milligrams per liter

pCi/L - picoCuries per liter

CCR - coal combustion residuals

MCL - Maximum Contaminant Level

GWPS - Groundwater Protection Standard

Combined Radium data are a combination of radium isotopes 226 and 228.

(1) Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018 lists levels for cobalt, lead, lithium, and molybdenum.

(2) Constituent without an established MCL.

(3) Currently, there is no MCL established for lead. The value listed is the established US EPA Action Level for lead in drinking water.

(4) Effective on February 22, 2022, the Georgia EPD has incorporated the updated GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). As described in the updated Rules, the GWPS is:

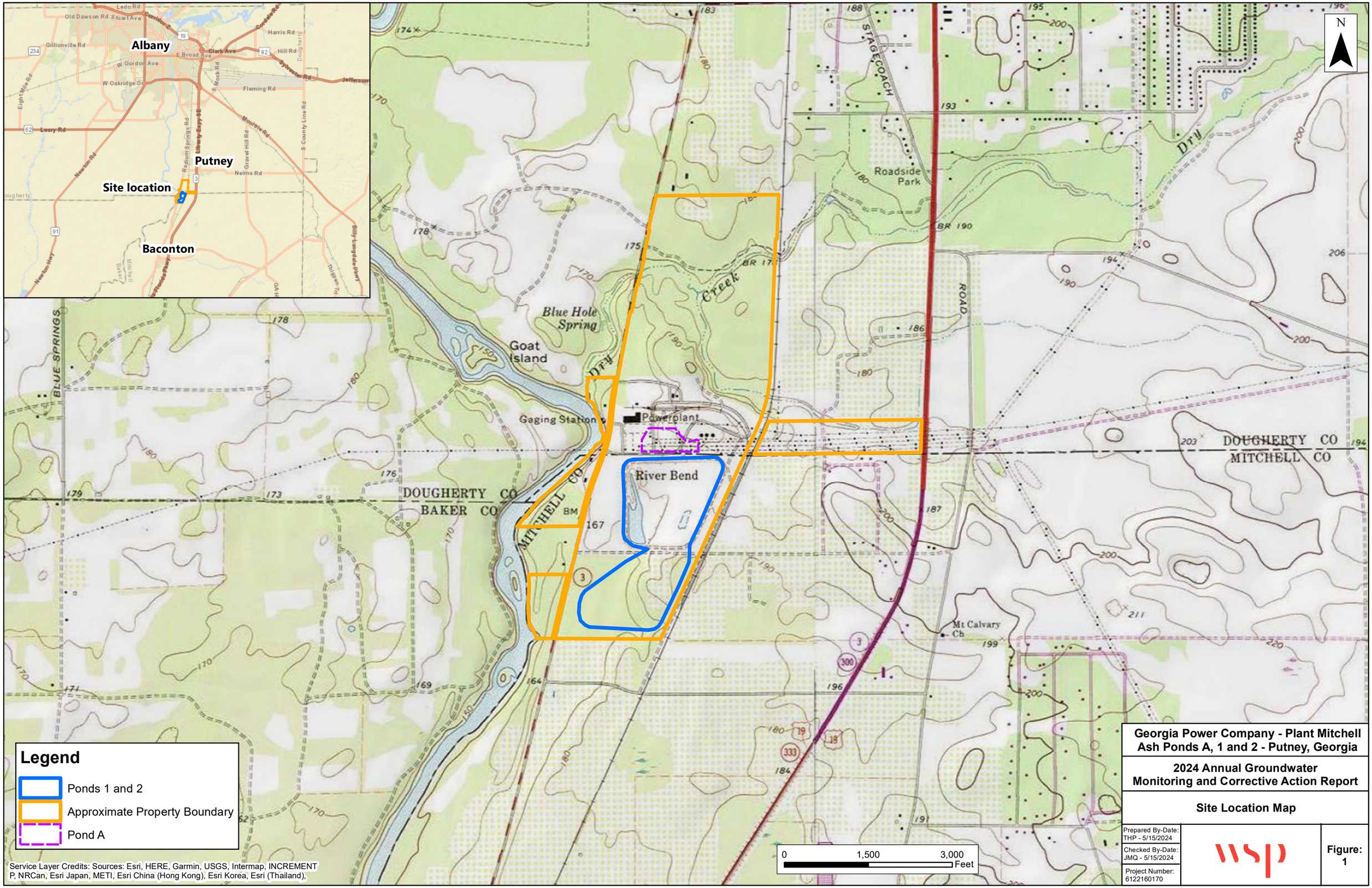
(i) the MCL

(ii) where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)

(iii) the respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule specified GWPS

wsp

FIGURES



Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2 - Putney, Georgia

2024 Annual Groundwater
Monitoring and Corrective Action Report

Site Location Map

Prepared By-Date: THP - 5/15/2024
Checked By-Date: JMQ - 5/15/2024
Project Number: 6122160170

wsp

Figure: 1

N

PZ-31

PZ-1D

PZ-32

PZ-2D

ASH POND A

PZ-25

ASH POND 1

PZ-23A

PZ-19

PZ-18

PZ-57

PZ-17

PZ-16

ASH POND 2

PZ-33

PZ-15

PZ-7D

PZ-14

Legend

- Detection Monitoring Well in CCR Monitoring Network
- Approximate CCR Permit Boundary
- Approximate Property Boundary
- Approximate Ash Pond Boundary

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 600 1,200 Feet

Georgia Power Company - Plant Mitchell Ash Ponds A, 1 and 2 - Putney, Georgia

2024 Annual Groundwater Monitoring and Corrective Action Report

Monitoring Network Well Location Map

Prepared By-Date: JRM - 5/15/2024

Checked By-Date: RNQ - 5/15/2024

Project Number: 6122160170

wsp

Figure: 2

Notes:
1. Piezometers (PZ-2S and PZ-6S) screened in the Overburden were not used to generate potentiometric contours.

2. September 2023 groundwater elevations calculated using top of well casing elevations from the June 2020 re-surveying except for PZ-01R which was not re-surveyed in June 2020 because construction prevented access to the wells.

N

PZ-31 141.21
PZ-1D 141.31
PZ-32 140.04
PZ-2D 139.85
PZ-2S 139.87
PZ-3D 139.64
ASH POND A
PZ-21 138.18
PZ-22 138.80
MW-102 137.65
PZ-25 137.64
PZ-01R 137.46
PZ-4D 139.21
PZ-20 137.24
PZ-23A 139.06
PZ-12S 137.00
PZ-29 137.00
MW-116 137.04
PZ-19 137.11
ASH POND 1
PZ-18 137.05
PZ-24A 138.29
PZ-28 136.90
PZ-57 137.01
PZ-02R Abandoned
PZ-27 136.78
PZ-10S 136.82
PZ-17 136.96
MW-113 137.38
ASH POND 2
PZ-6S 165.00
PZ-33 137.74
PZ-16 136.77
PZ-9D 136.71
PZ-15 136.64
MW-111 136.58
PZ-7D 136.87
PZ-14 137.41
PZ-8D 136.56

141 140 139 138 137

Legend

- 141.31 Groundwater Elevation (ft NAVD88)
- Groundwater Elevation Well (Piezometer) Screened in Bedrock
- Piezometer Abandoned
- Detection Monitoring Well in CCR Monitoring Network
- Piezometer Screened in the Overburden
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Approximate Ash Pond A Location

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 600 1,200 Feet

Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2 - Putney, Georgia

2024 Annual Groundwater Monitoring and Corrective Action Report

Potentiometric Surface Map
Upper Bedrock - September 18, 2023

Prepared By-Date: THP - 12/19/2023	Figure: 3
Checked By-Date: RNQ - 12/19/2023	
Project Number: 6122160170	

Notes:
1. Piezometers (PZ-2S and PZ-6S) screened in the Overburden were not used to generate potentiometric contours.

2. February 2024 groundwater elevations calculated using top of well casing elevations from the June 2020 re-surveying except for PZ-01R which was not re-surveyed in June 2020 because construction prevented access to the wells.

N

PZ-31
150.16

PZ-1D
150.13

PZ-32
149.34

PZ-2S
148.73

PZ-2D
148.71

PZ-3D
148.39

ASH
POND A

ASH
POND 1

ASH
POND 2

MW-102
144.98

PZ-21
145.90

PZ-22
147.56

PZ-25
144.99

PZ-01R
144.48

PZ-4D
147.64

PZ-20
144.63

PZ-29
143.82

PZ-12S
144.08

MW-116
144.50

PZ-19
144.63

PZ-23A
146.70

PZ-18
144.30

PZ-24A
145.60

PZ-28
144.81

PZ-57
144.46

PZ-17
144.80

PZ-27
146.51

PZ-10S
146.34

MW-113
145.81

PZ-16
145.14

PZ-6S
172.52

PZ-33
145.48

PZ-9D
143.42

MW-111
142.89

PZ-15
143.51

PZ-8D
142.99

PZ-7D
144.08

PZ-14
145.49

148 149 150 147 146 145 144 143

Legend

- Detection Monitoring Well in the CCR Monitoring Network
- Groundwater Elevation Well (Piezometer) Screened in Bedrock
- Piezometer Screened in the Overburden
- Potentiometric Surface Contour (ft NAVD88)
- Interpreted Groundwater Flow Direction
- Approximate Property Boundary
- Approximate CCR Permit Boundary
- Approximate Ash Pond A Location

150.13 Groundwater Elevation (ft NAVD88)

0 600 1,200 Feet

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2 - Putney, Georgia

2024 Annual Groundwater Monitoring and Corrective Action Report

Potentiometric Surface Map
Upper Bedrock - February 26, 2024

Prepared By-Date: SLH - 4/8/2024	Figure: 4
Checked By-Date: RNQ - 4/8/2024	
Project Number: 6122160170	

APPENDIX A
WELL REPAIRS AND INSPECTIONS

APPENDIX A
WELL REPAIRS

MEMORANDUM

Date: January 8, 2024

To: Kristen Jurinko – Georgia Power

CC: Ben Hodges

From: WSP USA Environment & Infrastructure, Inc.

Subject: Plant Mitchell Ash Ponds A, 1, and 2 - Well Maintenance and Repair Documentation
Georgia Power Company

WSP USA Environment & Infrastructure, Inc.(WSP) (formerly Wood Environment & Infrastructure Solutions, Inc.) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MITCHELL during the semi-annual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2	9/18/2023	PZ-19, PZ-20	Hornet nests removed from inside protective casing
Mitchell Ash Ponds A, 1, & 2	9/18/2023	MW-111 (non-permit piezometer)	Needs weep hole in protective casing base. Repair completed.
Mitchell Ash Ponds A, 1, & 2	9/18/2023	MW-113 (non-permit piezometer)	Well pad is cracked. Repair completed.
Mitchell Ash Ponds A, 1, & 2	9/18/2023	PZ-29	Annular space in protective cover needs more pea gravel. Repair completed.
Mitchell Ash Ponds A, 1, & 2	9/18/2023	PZ-57	PVC casing needs vent hole at top of casing. Repair completed.

MEMORANDUM

Date: June 27, 2024

To: Kristen Jurinko – Georgia Power

CC: Ben Hodges

From: WSP USA Environment & Infrastructure, Inc.

Subject: Plant Mitchell Ash Ponds A, 1, and 2 - Well Maintenance and Repair Documentation
Georgia Power Company

WSP USA Environment & Infrastructure, Inc.(WSP) (formerly Wood Environment & Infrastructure Solutions, Inc.) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at PLANT MITCHELL during the semi-annual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Mitchell Ash Ponds A, 1, & 2	2/26/2024	MW-113 (non-permit piezometer)	Well pad is cracked. Repair to be completed.
Mitchell Ash Ponds A, 1, & 2	2/27/2024	MW-111 (non-permit piezometer)	Weep hole installed in protective casing base.
Mitchell Ash Ponds A, 1, & 2	2/27/2024	PZ-29	Added 4 bags of pea gravel to annular space in protective cover.
Mitchell Ash Ponds A, 1, & 2	2/27/2024	PZ-33	Added 3 bags of pea gravel to annular space in protective cover.
Mitchell Ash Ponds A, 1, & 2	2/26/2024	PZ-57	Vent hole installed in PVC casing at top of casing.
Mitchell Ash Ponds A, 1, & 2	6/27/2024	PZ-22	Replaced concrete well pad due to recent nearby construction work created a depression around the piezometer.

PLANT MITCHELL JUNE 2024 WELL REPAIR



PZ-22 – New concrete well pad

APPENDIX A

WELL INSPECTIONS SEPTEMBER 2023

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
MW-101	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No*	Yes
MW-113	Yes	Yes	No*	Yes
MW-116	Yes	Yes	No*	Yes
MW-120	Yes	Yes	No*	Yes
PZ-1D	Yes	Yes	No*	Yes
PZ-1S	Yes	Yes	No*	Yes
PZ-01R	Yes	Yes	No*	Yes
PZ-2D	Yes	Yes	No*	Yes
PZ-2S	Yes	Yes	No*	Yes
PZ-3D	Yes	Yes	No*	Yes
PZ-3S	Yes	Yes	No*	Yes
PZ-4D	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
PZ-8D	Yes	Yes	No*	Yes
PZ-8S	Yes	Yes	No*	Yes
PZ-9D	Yes	Yes	No*	Yes
PZ-9S	Yes	Yes	No*	Yes
PZ-10S	Yes	Yes	No*	Yes
PZ-12S	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	No*	Yes
PZ-19	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes
PZ-24A	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
PZ-25	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	Yes
PZ-31	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	No*	Yes

Notes:
No* indicates the well is not located in a high traffic area and therefore does not reqire protection from traffic.
NA - criteria not applicable

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
MW-101	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No	Yes	Yes
MW-113	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-01R	Yes	Yes	NA	NA	NA
PZ-2D	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
PZ-8D	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes
PZ-24A	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
PZ-25	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	No	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MW-101	Yes	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	Yes	Yes	Yes	Yes
MW-113	No	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-01R	NA	NA	NA	Yes	Yes	Yes
PZ-2D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-8D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24A	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-25	Yes	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes	No

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
MW-101		permit piezometer
MW-102		permit piezometer
MW-111	Needs weep hole in protective casing base	non-permit piezometer
MW-113	Well pad is cracked.	non-permit piezometer
MW-116		permit piezometer
MW-120		permit piezometer
PZ-1D		permit monitoring well
PZ-1S		permit piezometer
PZ-01R		non-permit piezometer
PZ-2D		permit monitoring well
PZ-2S		permit piezometer
PZ-3D		permit piezometer
PZ-3S		permit piezometer
PZ-4D		permit piezometer
PZ-4S		permit piezometer
PZ-6S		permit piezometer
PZ-7D		permit monitoring well
PZ-7S		permit piezometer

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
PZ-8D		permit piezometer
PZ-8S		permit piezometer
PZ-9D		permit piezometer
PZ-9S		permit piezometer
PZ-10S		non-permit piezometer
PZ-12S		permit piezometer
PZ-13S		permit piezometer
PZ-14		permit monitoring well
PZ-15		permit monitoring well
PZ-16		permit monitoring well
PZ-17		permit monitoring well
PZ-18		permit monitoring well
PZ-19	removed hornets nest from inside protective casing	permit monitoring well
PZ-20	removed hornets nest from inside protective casing	permit piezometer
PZ-21		permit piezometer
PZ-22		permit piezometer
PZ-23A		permit monitoring well
PZ-24A		permit piezometer

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 9/18/2023

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
PZ-25		permit monitoring well
PZ-27		permit piezometer
PZ-28		permit piezometer
PZ-29	Annular space within protective cover needs more pea gravel	permit piezometer
PZ-31		permit monitoring well
PZ-32		permit monitoring well
PZ-33		permit monitoring well
PZ-57	PVC casing needs vent hole at top of casing	permit monitoring well

APPENDIX A

WELL INSPECTIONS FEBRUARY 2024

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
MW-101	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No*	Yes
MW-113	Yes	Yes	No*	Yes
MW-116	Yes	Yes	No*	Yes
MW-120	Yes	Yes	No*	Yes
PZ-1D	Yes	Yes	No*	Yes
PZ-1S	Yes	Yes	No*	Yes
PZ-01R	Yes	Yes	No*	Yes
PZ-2D	Yes	Yes	No*	Yes
PZ-2S	Yes	Yes	No*	Yes
PZ-3D	Yes	Yes	No*	Yes
PZ-3S	Yes	Yes	No*	Yes
PZ-4D	Yes	Yes	No*	Yes
PZ-4S	Yes	Yes	No*	Yes
PZ-6S	Yes	Yes	No*	Yes
PZ-7D	Yes	Yes	No*	Yes
PZ-7S	Yes	Yes	No*	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
PZ-8D	Yes	Yes	No*	Yes
PZ-8S	Yes	Yes	No*	Yes
PZ-9D	Yes	Yes	No*	Yes
PZ-9S	Yes	Yes	No*	Yes
PZ-10S	Yes	Yes	No*	Yes
PZ-12S	Yes	Yes	No*	Yes
PZ-13S	Yes	Yes	No*	Yes
PZ-14	Yes	Yes	No*	Yes
PZ-15	Yes	Yes	No*	Yes
PZ-16	Yes	Yes	No*	Yes
PZ-17	Yes	Yes	No*	Yes
PZ-18	Yes	Yes	No*	Yes
PZ-19	Yes	Yes	No*	Yes
PZ-20	Yes	Yes	No*	Yes
PZ-21	Yes	Yes	No*	Yes
PZ-22	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	No*	Yes
PZ-24A	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Location/Identification			
	Visible and accessible	**Properly identified with correct well ID**	**Located in high traffic area; does the well require protection from traffic**	**Acceptable drainage around well (no standing water, not located in obvious drainage flow path)**
PZ-25	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	No*	Yes
PZ-28	Yes	Yes	No*	Yes
PZ-29	Yes	Yes	No*	Yes
PZ-31	Yes	Yes	No*	Yes
PZ-32	Yes	Yes	No*	Yes
PZ-33	Yes	Yes	No*	Yes
PZ-57	Yes	Yes	No*	Yes

Notes:
No* indicates the well is not located in a high traffic area and therefore does not reqire protection from traffic.
NA - criteria not applicable

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
MW-101	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	No	Yes	Yes
MW-113	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes
PZ-01R	Yes	Yes	NA	NA	NA
PZ-2D	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
PZ-8D	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes
PZ-24A	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	**No degradation or deterioration**	**Functioning weep hole**	**Annular space clear of debris and water, or filled with pea gravel/sand**	**Locked and is the lock in good condition**
PZ-25	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	No	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	No	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MW-101	Yes	Yes	Yes	Yes	Yes	Yes
MW-102	Yes	Yes	Yes	Yes	Yes	Yes
MW-111	Yes	Yes	Yes	Yes	Yes	Yes
MW-113	No	Yes	Yes	Yes	Yes	Yes
MW-116	Yes	Yes	Yes	Yes	Yes	Yes
MW-120	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-01R	NA	NA	NA	Yes	Yes	Yes
PZ-2D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-2S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-6S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-7S	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-8D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-8S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9D	Yes	Yes	Yes	Yes	Yes	Yes
PZ-9S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-10S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-12S	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13S	Yes	Yes	No	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes	Yes
PZ-19	Yes	Yes	Yes	Yes	Yes	Yes
PZ-20	Yes	Yes	Yes	Yes	Yes	Yes
PZ-21	Yes	Yes	Yes	Yes	Yes	Yes
PZ-22	Yes	Yes	Yes	Yes	Yes	Yes
PZ-23A	Yes	Yes	Yes	Yes	Yes	Yes
PZ-24A	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2 Date: 2/26/2024

Permit Number: 047-024D(CCR)

Field Conditions:_____

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-25	Yes	Yes	Yes	Yes	Yes	Yes
PZ-27	Yes	Yes	Yes	Yes	Yes	Yes
PZ-28	Yes	Yes	Yes	Yes	Yes	Yes
PZ-29	Yes	Yes	Yes	Yes	Yes	Yes
PZ-31	Yes	Yes	Yes	Yes	Yes	Yes
PZ-32	Yes	Yes	Yes	Yes	Yes	Yes
PZ-33	Yes	Yes	Yes	Yes	Yes	Yes
PZ-57	Yes	Yes	Yes	Yes	Yes	No

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2
Permit Number: 047-024D(CCR)

Date: 2/26/2024

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
MW-101		permit piezometer
MW-102		permit piezometer
MW-111	Installed weep hole in protective casing on 2/27/2024	non-permit piezometer
MW-113	Well pad is cracked, needs repair or replacement.	non-permit piezometer
MW-116		permit piezometer
MW-120		permit piezometer
PZ-1D		permit monitoring well
PZ-1S		permit piezometer
PZ-01R		non-permit piezometer
PZ-2D		permit monitoring well
PZ-2S		permit piezometer
PZ-3D		permit piezometer
PZ-3S		permit piezometer
PZ-4D		permit piezometer
PZ-4S		permit piezometer
PZ-6S		permit piezometer
PZ-7D		permit monitoring well
PZ-7S		permit piezometer

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2 Date: 2/26/2024

Permit Number: 047-024D(CCR)

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
PZ-8D		permit piezometer
PZ-8S		permit piezometer
PZ-9D		permit piezometer
PZ-9S		permit piezometer
PZ-10S		non-permit piezometer
PZ-12S		permit piezometer
PZ-13S	Some erosion around well pad from construction	permit piezometer
PZ-14		permit monitoring well
PZ-15		permit monitoring well
PZ-16		permit monitoring well
PZ-17		permit monitoring well
PZ-18		permit monitoring well
PZ-19		permit monitoring well
PZ-20		permit piezometer
PZ-21		permit piezometer
PZ-22	Well pad replaced	permit piezometer
PZ-23A		permit monitoring well
PZ-24A		permit piezometer

Well Inspection

Site Name: Plant Mitchell AP-A, 1 and 2 Date: 2/26/2024

Permit Number: 047-024D(CCR)___

Field Conditions:_____

Well ID:	Corrective actions as needed, by date:	
PZ-25		permit monitoring well
PZ-27		permit piezometer
PZ-28		permit piezometer
PZ-29	Added 4 bags pea gravel to annular space within protective cover	permit piezometer
PZ-31		permit monitoring well
PZ-32		permit monitoring well
PZ-33	Added 3 bags pea gravel to annular space within protective cover	permit monitoring well
PZ-57	Installed vent hole in PVC casing at top of casing	permit monitoring well

APPENDIX B

ABANDONMENT OF SELECT PIEZOMETERS

Report of Abandonment of Select Piezometers

Georgia Power Company – Plant Mitchell

Project No.: 6122160170

Prepared for:

Georgia Power

Atlanta, Georgia

11/10/2023

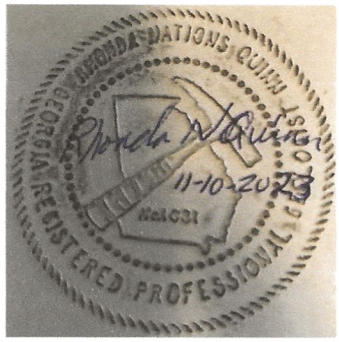
Professional Groundwater Scientist Certification

I certify that I am a qualified ground-water scientist in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01 who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. We certify that the information included is to the best of our knowledge and belief, true, accurate and complete. In preparing this report, we have relied on information provided by Southern Company Services and Georgia Power.



Gregory J. Wrenn, P.E.
Registered Professional Engineer
Professional Engineer No. 025565

Date: *11/10/2023*



Rhonda N. Quinn, P.G.
Registered Professional Geologist
Georgia Registration No. 1031

Date: *11/10/2023*

Table of Contents

1.0 INTRODUCTION 1
2.0 PIEZOMETER ABANDONMENT 2
3.0 GENERAL REFERENCES 3

List of Tables

Table 1 Summary of Piezometer Construction

List of Figures

Figure 1 Locations of Piezometers Abandoned

List of Appendices

Appendix A Piezometer Abandonment Records

1.0 INTRODUCTION

This Report of Abandonment of Select Piezometers was prepared to meet the requirements of Georgia Environmental Protection Division (EPD) Solid Waste Rules and provides details regarding the decommissioning of piezometers located at Plant Mitchell in and around Ash Ponds 1 and 2 (AP-1 and AP-2).

The Georgia Power Company (GPC) Plant Mitchell is located on the boundary of Dougherty and Mitchell Counties off Radium Springs Road (Georgia Route 3), approximately 2 miles southwest of Putney and 10 miles south of Albany, and east of the Flint River.

Construction activities associated with the ash removal and closure of AP-1 and AP-2 necessitated the abandonment of an additional nine piezometers located within and downgradient of the former ash ponds. The piezometers were installed between 2016 and 2017 for environmental investigations associated with the coal combustion residuals (CCR) program but were not included in the certified CCR groundwater monitoring or water level gauging network. Eight of the nine piezometers were abandoned during the period of September 11 to 13, 2023. One of the nine piezometers, PZ-45, could not be located. Surveyors marked the piezometer's location from prior survey coordinates and the ground surface was scraped using a skid steer to attempt to locate the piezometer. The dwelling that was located near this piezometer was demolished and Georgia Power believes the piezometer was also abandoned at that time. The construction details of the piezometers are summarized on **Table 1: Summary of Piezometer Construction**. **Figure 1: Locations of Piezometers Abandoned** shows the location of the abandoned piezometers. Seven of the nine piezometers were located outside the Plant Mitchell CCR permit boundary, were no longer needed, and were abandoned. Piezometers PZ-02A and PZ-02R were located within AP-2 and were abandoned because the ongoing ash removal had reached the location of the two piezometers.

2.0 PIEZOMETER ABANDONMENT

Piezometers PZ-02A, PZ-02R, PZ-42, PZ-46, PZ-47, PZ-50, PZ-51, PZ-52 (**Figure 1**) were abandoned following guidance in Georgia Water Well Standards Act (O.C.G.A. §12-5-120 through 138), Georgia Geologic Survey (GGS) Circular 13 (Grouting and Plugging of Domestic Water Wells in Georgia), and the U.S. EPA Region 4 Science and Ecosystem Support Division (SESD) guidance (SESDGUID-101-R2, Design and Installation of Monitoring Wells), dated January 16, 2018. The piezometers were abandoned under the direction of a Georgia Professional Geologist. The depth to groundwater and total depth of each piezometer were measured prior to its abandonment and recorded on the well abandonment documents presented in **Appendix A: Piezometer Abandonment Records**.

The piezometers were abandoned by filling the screened interval and casing up to ground surface with a bentonite grout mix (AquaGuard). AquaGuard by Baroid Industrial Drilling Products, a sodium bentonite blended grout, was emplaced from the bottom of the well to the ground surface utilizing the tremie method. The grout was prepared in accordance with the manufacturer's instructions. The mix was allowed to set up overnight. The concrete pad, bollards, and protective cover were removed from each piezometer before the grouting. After the overnight set up of the grout, the top 10 feet of the well casing was overdrilled with a six-inch outside diameter auger. The top 10 feet of the well casing and aboveground riser pipe were removed. The overdrilled interval was then filled with a mixture of Type I Portland Cement and bentonite grout (AquaGuard). The grout was injected at a low velocity and the tremie pipe was raised as grout filled the annular space. Grouting ceased when the grout mixture daylighted at the surface as visible grout, see **Appendix A.** Based on the grout volumes recorded, there were no significant grout losses. Minor overnight settling of the upper 10 feet of grout mixture was observed at the abandoned piezometers, and the settling was topped off on each abandoned piezometer with additional grout mixture to ground surface. Each abandoned piezometer was checked the following week during the semi-annual CCR groundwater sampling and Portland cement was again added to bring each boring to ground surface where additional minor settling had occurred.

3.0 GENERAL REFERENCES

Georgia Department of Natural Resources, Environmental Protection Division, Georgia Geological Survey, 1988, Grouting and Plugging of Domestic Water Wells in Georgia, Circular 13.

Southern Company Services, Inc., 2016, Draft Monitoring Well Development Procedures, Birmingham, Alabama, March 2016.

United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, January 16, 2018. Operating Procedure for Design and Installation of Monitoring Wells. SESDGUID-101-R2.

United States Environmental Protection Agency, Region 4 Laboratory Services and Applied Science Division, June 22, 2020. Operating Procedure for Field Equipment Cleaning and Decontamination. LSASDPROC-205-R4.

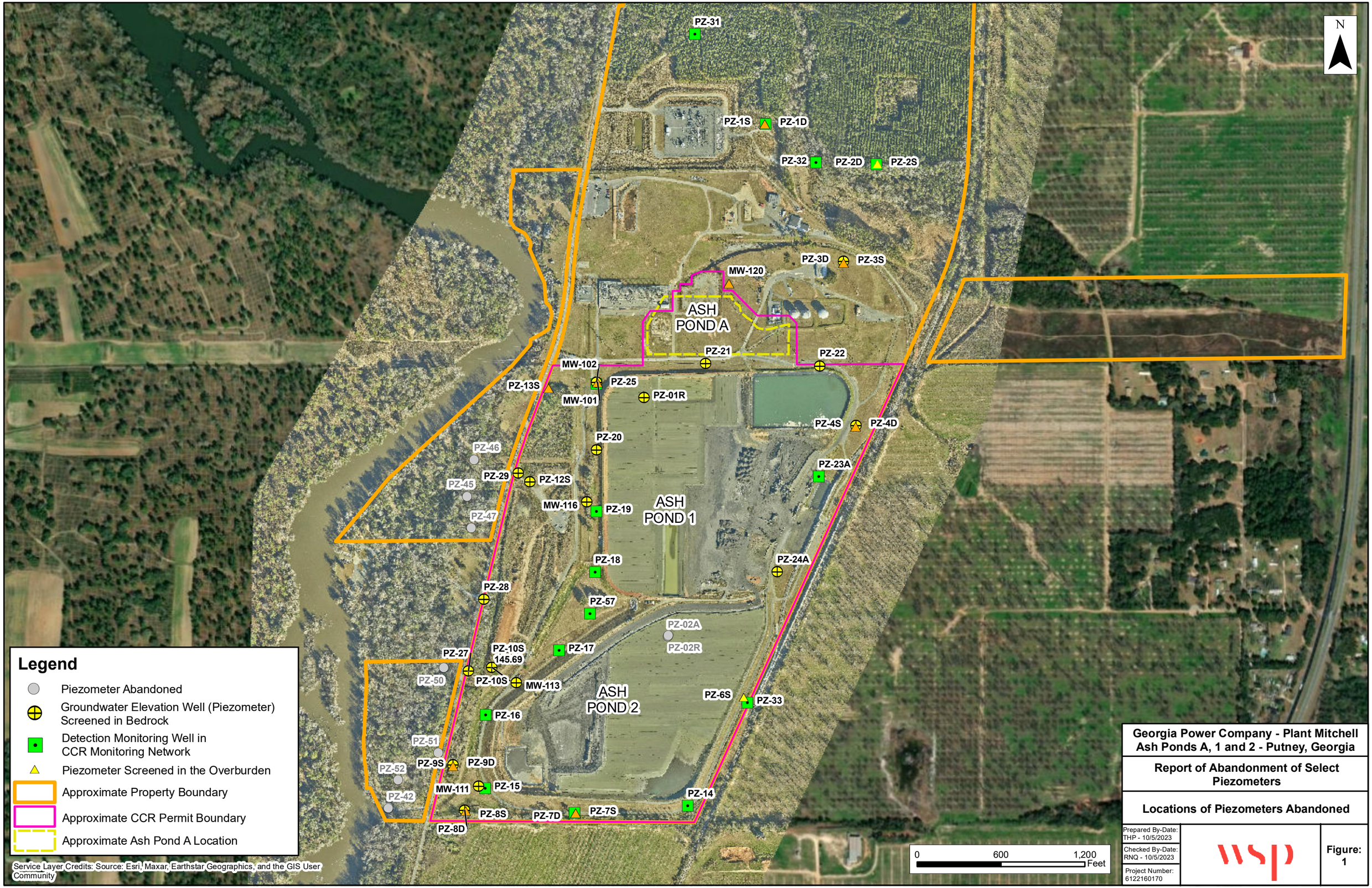
TABLE

TABLE 1
SUMMARY OF PIEZOMETER CONSTRUCTION
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2
Putney, Georgia

Well	Installation Date	Northing [1]	Easting [1]	Top of Casing Elevation (feet NAVD88)[2]	Ground Surface Elevation (feet NAVD88)[2]	Top of Screen Elevation (feet NAVD88)[3]	Bottom of Screen Elevation (feet NAVD88)[3]	Screen Length (feet)	Total Well Depth on Construction Log (feet below land surface)	Total Well Depth Measured Prior to Abandonment (feet below TOC)[4]	Groundwater Zone Screened	Date Abandoned Completed
PZ-02A	2/3/2016	522689.7[5]	2306663.3[5]	191.92[5]	188.79[5]	178.1	168.1	10.0	21.0	24.60	Ash	9/12/2023
PZ-02R	2/3/2016	522696.6[5]	2306666.5[5]	191.66[5]	188.51[5]	131.3	121.3	10.0	67.5	70.96	Bedrock	9/12/2023
PZ-42	10/25/2016	521459.1	2304661.2	145.66	142.61	124.3	114.3	10.0	28.3	31.70	Overburden (Sand and Clay)	9/11/2023
PZ-45*	11/14/2016	523691.3	2305224.5	185.71	182.89	143.9	133.9	10.0	49.0	N/A	Bedrock	Not found
PZ-46	3/21/2017	523954.3	2305276.0	166.79	166.50	126.8	116.8	10.0	50.0	49.90	Bedrock	9/11/2023
PZ-47	3/22/2017	523464.4	2305254.9	164.08	164.46	124.5	114.5	10.0	50.3	49.84	Bedrock	9/12/2023
PZ-50	3/25/2017	522462.8	2305060.4	162.68	162.96	133.0	123.0	10.0	40.0	40.02	Bedrock	9/12/2023
PZ-51	3/28/2017	521779.2	2304836.5	155.52	155.85	121.2	111.2	10.0	45.0	44.90	Bedrock	9/12/2023
PZ-52	3/26/2017	521659.4	2304731.1	156.22	156.27	121.6	111.6	10.0	44.7	44.90	Bedrock	9/12/2023

Notes:
(1) Northing and Easting coordinates are in feet (ft) referenced to the North American Datum of 1983 (NAD 83) (2011) Georgia West Zone.
(2) NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
(3) Screen elevations calculated using depth below land surface and ground surface elevations from the June 2020 re-survey and earlier surveys.
(4) TOC indicates top of casing
(5) Coordinates and elevations for piezometers PZ-02R and PZ-02A are from E&CS Civil Field Services March 2, 2016.
* PZ-45 could not be located to be abandoned and may have already been abandoned.
N/A indicates data not available

FIGURE


N
PZ-31
PZ-1S
PZ-1D
PZ-32
PZ-2D
PZ-2S
PZ-3D
PZ-3S
MW-120
ASH POND A
PZ-21
PZ-22
MW-102
PZ-13S
PZ-25
MW-101
PZ-01R
PZ-4S
PZ-4D
PZ-20
PZ-46
PZ-23A
PZ-29
PZ-12S
PZ-45
MW-116
PZ-19
ASH POND 1
PZ-47
PZ-18
PZ-24A
PZ-28
PZ-57
PZ-02A
PZ-02R
PZ-27
PZ-10S 145.69
PZ-17
PZ-50
PZ-10S
MW-113
ASH POND 2
PZ-6S
PZ-33
PZ-16
PZ-51
PZ-9S
PZ-9D
PZ-52
MW-111
PZ-15
PZ-14
PZ-42
PZ-8S
PZ-7D
PZ-7S
PZ-8D
Legend
Piezometer Abandoned
Groundwater Elevation Well (Piezometer) Screened in Bedrock
Detection Monitoring Well in CCR Monitoring Network
Piezometer Screened in the Overburden
Approximate Property Boundary
Approximate CCR Permit Boundary
Approximate Ash Pond A Location
Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
0
600
1,200
Feet
Georgia Power Company - Plant Mitchell
Ash Ponds A, 1 and 2 - Putney, Georgia
Report of Abandonment of Select Piezometers
Locations of Piezometers Abandoned
Prepared By-Date: THP - 10/5/2023
Checked By-Date: RNQ - 10/5/2023
Project Number: 6122160170
wsp
Figure: 1

APPENDIX A

PIEZOMETER ABANDONMENT RECORDS

CONTINUATION CERTIFICATE

SAFECO Insurance Company of America , Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2024
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 ($15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: $100.00

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 05/22/2023
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, LLC
Agent

2211 7th Avenue South, Birmingham, AL 35233
Address of Agent

(205) 252-9871
Telephone Number of Agent

S-0157/GE 8/08

XDP

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual. SURETY

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: **8205019-016032**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II; Richard H. Mitchell; Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: _____
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 22nd day of May, 2023.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

McGriff
SURETY DIVISION
2211 7TH AVENUE SOUTH, BIRMINGHAM, AL 35233
MEAGAN CARTER

LETTER OF TRANSMITTAL

To: Clementine Broaders
Southern Power Company

Date: 5/22/2023

We are sending you:

☐	Duplicate Original	☐	Consent of Surety	☐	Certificate of Insurance
☒	CC / VC	☐	Change Order	☐	Motor Fuel Bonds
☐	Invoice	☐	Financial/ Indemnity	☐	Bond

No. of Copies:	Description:
(1) CC	
Bond No. 4993104	
**Please review and notify if you should have any questions, or if changes or amendments are needed. **	

These are transmitted as checked below:

☐	Info and/or necessary action in remarks	☐	For your file	☒	As requested
☒	For your use	☐	Returned for corrections	☐	Please sign as indicated and return

REMARKS: UPS

If enclosures are not as noted, kindly notify at once.

Signed: Meagan Carter, *Senior Client Service Specialist – Surety*

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-02A

PROJECT NAME: GPC-Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 24.6 ft btoc

Total Well Depth: 21.43* ft bgs

*Original ground elevation no longer exists due to pond closure excavation. Ground surface was ~38 inches (3.17 ft) below TOC

Total
Boring Depth: 21 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft

Screen Interval: 10.7 to 20.7 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 24.6 ft (well was dry, wet mud in bottom of casing) (13.6 ft + 11 ft of riser that drillers cut off)

Description of Well Abandonment Method: Tremie grout with Aquaguard® from bottom of well up to TOC cutoff. Then overdrill to bottom of well, removing all PVC, sand pack, bentonite and grout.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® bentonite grout
Gallons of: 20 gallons of water to 1 x 50 lb. Aquaguard® bag + 10 gallons of water to ½ bag of Aquaguard® - 30 gallons total.

Riser and Screen Removed or Left in Place: Riser and screen fully removed

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

15:20 - Drillers setup to grout PZ-02A after excavator is used to create earthen bench to work from. (Note add 11 ft to WL measurement after drillers cut off riser to new ground surface) 15:45 - Drillers overdrill PZ-02A. 15:54 - Drillers overdrill to 14 ft bgs (to complete overdrill of entire well depth). 15:58 - Fill boring with Aquaguard by tremie grouting. 30 gallons total of Aquaguard tremie grouted into open boring to 14 ft bgs.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/12/2023 @ 16:00

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-02R

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 70.96 ft btoc

Total Well Depth: 67.79* ft bgs

Total
Boring Depth: 69 ft bgs

*Original ground elevation no longer exists due to pond closure excavation. Ground surface was originally ~38 inches (3.17 ft) below TOC

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft

Screen Interval: 57.2 to 67.2 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 55.6 ft (45.7 ft + 9.9 ft of riser that drillers cut off)

Description of Well Abandonment Method: Tremie grout with Aquaguard® from bottom of well to TOC cutoff. Then overdrill to top of original annular seal.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard® bentonite grout
Gallons of: 20 gallons of water to 1 x 50 lb. Aquaguard® bag (inside 2 inch screened interval and well casing). 40 gallons of water to 2 bags of Aquaguard® to fill overdrill boring. Topped off with 4 gallons

Riser and Screen Removed or Left in Place: Overdrilled to top of original annular seal. (Screen was grouted on 9/12/23) and left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/12/2023 15:30 Drillers cut off 9.96 ft of 2 inch casing (ash had been removed from around well). 15:42 Began grouting PZ-02R with Aquaguard®. Site shut down due to approaching weather and lightning. 9/13/2023 08:52 Because drill bit would not fit inside 6 inch PVC outer casing, GPC proposes to attempt to pull the 6 inch outer casing with an excavator and then, grout to the surface. Was able to remove 11 ft 2 inches of the 6 inch outer PVC casing with the excavator without disturbing the 2 inch inner casing. Cut off 28 inches of 2 inch casing and overdrilled to original annular seal. Additional 26 inches of 6 inch casing removed with the drill rods. Another 46 inches of 6 inch casing removed. All 27 ft of 6 inch casing was recovered. Overdrilled to 42 ft below new ground surface (adjusted drill depth by adding 6.96 ft and 2.33 ft of cutoff casing = 51.29 ft bgs) 11:10 Augers pulled. Bottom 6 ft of boring collapsed and only 36 ft of tremie pipe could be used to tremie grout the overdrilled boring. 11:25 began tremie grouting overdrilled boring.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/13/2023 @ 12:00

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-42

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/11/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 31.7 ft btoc Total Well Depth: 28.6 ft bgs
Riser = 3.1'

Total
Boring Depth: 30 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft Screen Interval: 18.3 to 28.3 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 10.40 on 9/11/2023

Description of Well Abandonment Method: 1st added bentonite chips to 19.88 ft btoc, pre full hydration (finish 17:00). At 17:39 depth to Bentonite chips is 19.85 ft btoc.

Type and Volume of Materials Used to Plug Well/Borehole: Pel Plug – Uncoated bentonite pellets added.
Gallons of: ~3 gallons water and ½ bag (94 lb) of Portland Cement (slowly to prevent bridging) ~4 gallons of mixed cement.

Riser and Screen Removed or Left in Place: Upper 6 ft of casing removed and cut off below ground surface. Screen and below-ground riser left in place. Cannot overdrill because equipment cannot access the well as result of the river having eroded the ground surface away from around well area.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/11/2023 Drillers indicate cap on PZ-42 was broken and fell into the well. Drillers tapped the cap down to the bottom of well. 16:30 Drillers began adding bentonite to the well (uncoated). Attached chains and sling to protective casing and skid steer. 17:50 protective casing pulled off PVC casing successfully without breaking PVC casing. 18:00 began mixing portland cement in 5-gallon bucket and pouring down PVC casing. Filled 2 inch PVC casing with grout. Remaining Portland cement (dry) packed on top of well PVC.
9/13/2023 No settling of grout observed.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/11/2023 @ 18:17

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-45 (not found)

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/11/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): _____ ft btoc Total Well Depth: _____ ft bgs

Total
Boring Depth: ____ ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft Screen Interval: _____ ft bgs

Depth to Water/Date
(Measure from Top of Riser): _____

Description of Well Abandonment Method: _____

Type and Volume of Materials Used to Plug Well/Borehole: _____

Riser and Screen Removed or Left in Place: _____

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/11/2023 Drillers used a skid steer to dig a few inches of soil away at well location marked by surveyors. No well pad found. Some soil with vegetation is piled around the perimeter of area indicating previous ground disturbance by heavy equipment.
9/12/2023 @ 07:10 mob to PZ-45-marked location with skid steer and move additional soil in attempt to find PZ-45. Found multiple buried power cables – abandoned and de-energized, grounding rod and several concrete mounds. One piece of concrete appeared to have had 2 inch pipe in it, but when removed, there was nothing below the concrete.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: Well Not Found

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-46

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/11/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 49.90 ft btoc

Total Well Depth: 49.9* ft bgs
*TOC level with ground surface.

Total
Boring Depth: 50 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft

Screen Interval: 39.7 to 49.7 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 29.9 on 9/11/2023

Description of Well Abandonment Method: Tremie grout from bottom of well to TOC with Aquaguard® grout mix. Then overdrilled casing with 6 inch augers to 10 ft bgs. Filled boring to ground surface with Aquaguard® grout mix.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® - bentonite grout.
Gallons of: Water = 20 gallons and 1 x 50 lb. bag of grout.

Riser and Screen Removed or Left in Place: Top 10 ft of riser overdrilled and removed. Screen and Riser below depth of 10 ft left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/11/2023 15:18 Well pad and cover removed. Drillers began mixing grout (50 lb. bags of Aquaguard – bentonite grout). 15:22 Drillers began tremie grouting. 15:25 Drillers top off PZ-46 casing with grout after removing tremie pipe. 15:27 Drillers began overdrilling the upper 10 ft of riser. Remainder of riser and screen interval below 10 ft left in place. 15:30 15:37 Finish removing augers and topped off upper 10 ft of overdrilled boring to surface with grout.
9/13/2023 Drillers topped off Aquaguard grout after about 2 ft of settling.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/11/2023 @ 15:39

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-47

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 49.84 ft btoc Total Well Depth: 50.3 ft bgs Total Boring Depth: 50.3 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10.0 ft Screen Interval: 40 to 50.0 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 27.52 ft on 9/12/2023

Description of Well Abandonment Method: Tremie grout from bottom of well to TOC with Aquaguard® grout mix. Then overdrilled casing with 6 inch augers to 10 ft bgs. Filled boring to ground surface with Aquaguard® grout mix.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® - bentonite grout.
Gallons of: Water = 20 gallons and 1 x 50 lb. bag of Aquaguard ® grout.

Riser and Screen Removed or Left in Place: Top 10 ft of riser overdrilled and removed. Screen and Riser below depth of 10 ft left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/12/2023 08:15 Drillers arrive with Geoprobe rig (Model 7822DT) and 6 inch augers. Measured WL and TD. Removed well pad and protective cover (flush-mount well). 08:40 Mixed grout. 08:45 Began tremie grouting. 08:46 Removed 50 ft. of 1 inch PVC tremie pipe and top off casing with grout. 08:47 Began overdrilling upper 10 ft of PVC casing with 6 inch augers. 08:53 Complete overdrilling to 10 ft bgs and remove augers. 08:59 Complete filling overdrilled boring to ground surface with Aquaguard ® grout mix.
9/13/2023 Drillers topped off Aquaguard grout after about 2 ft of settling.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/12/2023 @ 09:00

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-50

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 40.02 ft btoc Total Well Depth: 40.02 ft bgs Total Boring Depth: 40.0 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10.0 ft Screen Interval: 30 to 40 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 26.20 ft on 9/12/2023

Description of Well Abandonment Method: Tremie grout from bottom of well to TOC with Aquaguard® grout mix. Then overdrilled casing with 6 inch augers to 10 ft bgs. Filled boring to ground surface with Aquaguard® grout mix.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® - bentonite grout.
Gallons of: Water = 18 gallons and 1 x 50 lb. bag of Aquaguard ® grout.

Riser and Screen Removed or Left in Place: Top 10 ft of riser overdrilled and removed. Screen and Riser below depth of 10 ft left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/12/2023 09:07 Drillers setup on PZ-50. 09:12 Measured WL and TD. 09:15 Drillers removed pad and protective vault. 09:20 mix Aquaguard ® (18 gallons water to 1 x 50 lb. bag of Aquaguard ®). 09:22 Began tremie grouting through 40 ft of 1 inch tremie pipe. 09:24 Remove 1 inch tremie pipe and top off 2 inch well casing with grout. 09:25 Began overdrilling to 10 ft bgs of PZ-50 casing. 09:37 Complete overdrill to 10 ft bgs and remove drill augers. 09:41 Began filling 10 ft overdrilled borehole with Aquaguard mix. 09:42 PZ-50 overdrilled borehole filled to overflowing.
9/13/2023 Drillers topped off Aquaguard grout after about 2 ft of settling overnight.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/12/2023 @ 09:42

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-51

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 44.90 ft btoc Total Well Depth: 45.0 ft bgs Total Boring Depth: 45.0 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft Screen Interval: 34.7 to 44.7 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 19.22 ft on 9/12/2023 @11:06

Description of Well Abandonment Method: Tremie grout from bottom of well to TOC with Aquaguard® grout mix. Then overdrilled casing with 6 inch augers to 10 ft bgs. Filled boring to ground surface with Aquaguard® grout mix.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® - bentonite grout.
Gallons of: Water = 20 gallons and 1 x 50 lb. bag of Aquaguard ® grout.

Riser and Screen Removed or Left in Place: Top 10 ft of riser overdrilled and removed. Screen and Riser below depth of 10 ft left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/12/2023 09:50 Drillers arrive and began clearing a path with the geoprobe blade. 10:27 Complete clearing for access to PZ-51 and PZ-52. Removed well pad and protective cover. 11:00 Drillers setup on PZ-51. 11:12 Drillers mix Aquaguard ® grout. 11:14 Began tremie grouting from bottom of well to TOC. 11:17 Complete grouting to TOC. 11:18 Began overdrilling upper 10 ft of 2 inch casing. 11:25 Complete overdrilling PZ-51 to 10 ft bgs. 11:28 Filled 6 inch overdrilled borehole with Aquaguard to ground surface until overflowing. 9/13/2023 Drillers topped off Aquaguard grout after about 1 ft of settling overnight.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/12/2023 @ 11:30

MONITORING WELL ABANDONMENT RECORD

WELL NO.: PZ-52

PROJECT NAME: GPC – Plant Mitchell

PROJECT NO.: 6122 16 0170

DATE: 09/12/2023

Name of Property Owner: Georgia Power Company

Address of Property: 5200 Radium Springs Rd, Albany, GA 31075

Original Purpose of Well Installation: Groundwater monitoring and water level

Total Depth of Well
(Measured from Top of Riser): 44.90 ft btoc Total Well Depth: 44.9 ft bgs Total Boring Depth: 44.7 ft bgs

Well Diameter: 2 inches

Screen Slot Size: 0.01 - inch

Length of Screen: 10 ft Screen Interval: 34.7 to 44.7 ft bgs

Depth to Water/Date
(Measure from Top of Riser): 20.30 ft on 9/12/2023 @10:36

Description of Well Abandonment Method: Tremie grout from bottom of well to TOC with Aquaguard® grout mix. Then overdrilled casing with 6 inch augers to 10 ft bgs. Filled boring to ground surface with Aquaguard® grout mix.

Type and Volume of Materials Used to Plug Well/Borehole: Aquaguard ® - bentonite grout.
Gallons of: Water = 20 gallons and 1 x 50 lb. bag of Aquaguard ® grout.

Riser and Screen Removed or Left in Place: Top 10 ft of riser overdrilled and removed. Screen and Riser below depth of 10 ft left in place.

Drilling Contractor Southern Company Services Driller's Name Shawn Milan

Additional Notes:

9/12/2023 10:30 Drillers setup on PZ-52. 10:36 Measure WL and TD. Drillers remove well pad and cover. 10:40 Drillers mixing Aquaguard grout. 10:46 Drillers finish tremie grouting PZ-52 casing from bottom of well to TOC. 10:47 Began overdrilling with 6 inch augers. 10:56 Complete overdrilling to 10 ft bgs and remove augers. 10:58 Complete filling overdrilled boring to ground surface with Aquaguard ® grout mix.
9/13/2023 Drillers topped off Aquaguard grout after about 1 ft of settling overnight.

WSP USA Environment & Infrastructure Field Representative Terrell Parker

Date Well Abandonment Completed: 9/12/2023 @ 11:00

APPENDIX C

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS SEPTEMBER 2023 AND FEBRUARY 2024

APPENDIX C

LABORATORY ANALYTICAL SEPTEMBER 2023

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

October 19, 2023

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 21, 2023 and September 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

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

Pace Analytical Services 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
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92689423001	**MIT-PZ-1D**	Water	09/19/23 11:05	09/21/23 09:07
92689423002	**MIT-PZ-31**	Water	09/19/23 13:25	09/21/23 09:07
92689423003	**MIT-PZ-16**	Water	09/19/23 15:25	09/21/23 09:07
92689423004	**MIT-APA12-EB-1**	Water	09/20/23 09:00	09/21/23 09:07
92689423005	**MIT-APA12-FB-1**	Water	09/19/23 10:15	09/21/23 09:07
92689423006	**MIT-PZ-2D**	Water	09/19/23 11:06	09/21/23 09:07
92689423007	**MIT-PZ-32**	Water	09/19/23 13:00	09/21/23 09:07
92689423008	**MIT-PZ-25**	Water	09/19/23 15:28	09/21/23 09:07
92689423009	**MIT-PZ-23A**	Water	09/20/23 10:20	09/21/23 09:07
92689423010	**MIT-PZ-19**	Water	09/20/23 12:36	09/21/23 09:07
92689423011	**MIT-PZ-7D**	Water	09/20/23 14:30	09/21/23 09:07
92689423012	**MIT-APA12-FB-2**	Water	09/20/23 15:05	09/21/23 09:07
92689423013	**MIT-PZ-15**	Water	09/20/23 09:40	09/21/23 09:07
92689423014	**MIT-PZ-14**	Water	09/20/23 11:20	09/21/23 09:07
92689423015	**MIT-PZ-17**	Water	09/20/23 13:25	09/21/23 09:07
92689423016	**MIT-PZ-18**	Water	09/20/23 14:55	09/21/23 09:07
92689423017	**MIT-APA12-EB-2**	Water	09/21/23 09:00	09/22/23 10:28
92689423018	**MIT-PZ-33**	Water	09/21/23 09:15	09/22/23 10:28
92689423019	**MIT-APA12-FD-1**	Water	09/21/23 00:00	09/22/23 10:28
92689423020	**MIT-PZ-57**	Water	09/21/23 10:45	09/22/23 10:28
92689423021	**MIT-APA12-FD-2**	Water	09/21/23 00:00	09/22/23 10:28

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92689423001	**MIT-PZ-1D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423002	**MIT-PZ-31**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423003	**MIT-PZ-16**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423004	**MIT-APA12-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423005	**MIT-APA12-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423006	**MIT-PZ-2D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423007	**MIT-PZ-32**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423008	**MIT-PZ-25**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423009	**MIT-PZ-23A**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423010	**MIT-PZ-19**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423011	**MIT-PZ-7D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423012	**MIT-APA12-FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423013	**MIT-PZ-15**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423014	**MIT-PZ-14**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423015	**MIT-PZ-17**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423016	**MIT-PZ-18**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423017	**MIT-APA12-EB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423018	**MIT-PZ-33**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423019	**MIT-APA12-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423020	**MIT-PZ-57**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92689423021	**MIT-APA12-FD-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689423001	**MIT-PZ-1D**					
EPA 6010D	Calcium	44.7	mg/L	1.0	10/11/23 17:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	10/02/23 18:51	
EPA 6020B	Boron	0.024J	mg/L	0.040	10/02/23 18:51	B
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	10/02/23 18:51	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	10/02/23 18:51	
EPA 6020B	Thallium	0.00028J	mg/L	0.0010	10/02/23 18:51	
SM 2540C-2015	Total Dissolved Solids	146	mg/L	25.0	09/26/23 11:30	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/23/23 15:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/23/23 15:44	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	09/23/23 15:44	
92689423002	**MIT-PZ-31**					
EPA 6010D	Calcium	86.9	mg/L	1.0	10/11/23 17:22	M1
EPA 6020B	Antimony	0.0042	mg/L	0.0030	10/02/23 19:07	
EPA 6020B	Barium	0.0071	mg/L	0.0050	10/02/23 19:07	
EPA 6020B	Boron	0.022J	mg/L	0.040	10/02/23 19:07	B
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	10/02/23 19:07	
EPA 6020B	Lithium	0.00079J	mg/L	0.030	10/02/23 19:07	
SM 2540C-2015	Total Dissolved Solids	265	mg/L	25.0	09/26/23 11:31	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/23/23 15:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/23/23 15:59	
EPA 300.0 Rev 2.1 1993	Sulfate	0.61J	mg/L	1.0	09/23/23 15:59	
92689423003	**MIT-PZ-16**					
EPA 6010D	Calcium	83.3	mg/L	1.0	10/11/23 17:43	
EPA 6020B	Barium	0.038	mg/L	0.0050	10/02/23 19:12	
EPA 6020B	Boron	0.19	mg/L	0.040	10/03/23 18:28	
SM 2540C-2015	Total Dissolved Solids	298	mg/L	25.0	09/26/23 11:31	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	09/23/23 16:13	
EPA 300.0 Rev 2.1 1993	Sulfate	37.5	mg/L	1.0	09/23/23 16:13	
92689423006	**MIT-PZ-2D**					
EPA 6010D	Calcium	13.7	mg/L	1.0	10/11/23 17:58	
EPA 6020B	Barium	0.0027J	mg/L	0.0050	10/02/23 19:32	
EPA 6020B	Boron	0.011J	mg/L	0.040	10/02/23 19:32	B
EPA 6020B	Chromium	0.0071	mg/L	0.0050	10/02/23 19:32	
EPA 6020B	Molybdenum	0.00080J	mg/L	0.010	10/02/23 19:32	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	09/26/23 11:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	09/23/23 17:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	09/23/23 17:25	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	09/23/23 17:25	
92689423007	**MIT-PZ-32**					
EPA 6010D	Calcium	64.6	mg/L	1.0	10/11/23 18:03	
EPA 6020B	Barium	0.015	mg/L	0.0050	10/02/23 19:36	
EPA 6020B	Boron	0.011J	mg/L	0.040	10/02/23 19:36	B
SM 2540C-2015	Total Dissolved Solids	217	mg/L	25.0	09/26/23 11:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	09/23/23 17:39	
EPA 300.0 Rev 2.1 1993	Sulfate	1.5	mg/L	1.0	09/23/23 17:39	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689423008	**MIT-PZ-25**					
EPA 6010D	Calcium	80.3	mg/L	1.0	10/11/23 18:19	
EPA 6020B	Barium	0.11	mg/L	0.0050	10/02/23 19:41	
EPA 6020B	Boron	0.18	mg/L	0.040	10/02/23 19:41	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	10/02/23 19:41	
EPA 6020B	Lithium	0.0064J	mg/L	0.030	10/02/23 19:41	
EPA 6020B	Thallium	0.00061J	mg/L	0.0010	10/02/23 19:41	
SM 2540C-2015	Total Dissolved Solids	311	mg/L	25.0	09/26/23 11:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	09/23/23 17:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	09/23/23 17:53	
EPA 300.0 Rev 2.1 1993	Sulfate	34.7	mg/L	1.0	09/23/23 17:53	
92689423009	**MIT-PZ-23A**					
EPA 6010D	Calcium	131	mg/L	1.0	10/11/23 18:24	
EPA 6020B	Barium	0.035	mg/L	0.0050	10/02/23 19:45	
EPA 6020B	Boron	0.15	mg/L	0.040	10/02/23 19:45	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	10/02/23 19:45	
EPA 6020B	Lithium	0.00088J	mg/L	0.030	10/02/23 19:45	
EPA 6020B	Selenium	0.0023J	mg/L	0.0050	10/02/23 19:45	
SM 2540C-2015	Total Dissolved Solids	421	mg/L	25.0	09/26/23 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/23/23 18:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	09/23/23 18:08	
EPA 300.0 Rev 2.1 1993	Sulfate	44.3	mg/L	1.0	09/23/23 18:08	
92689423010	**MIT-PZ-19**					
EPA 6010D	Calcium	143	mg/L	1.0	10/11/23 18:29	
EPA 6020B	Barium	0.053	mg/L	0.0050	10/02/23 19:49	
EPA 6020B	Boron	0.62	mg/L	0.040	10/02/23 19:49	
EPA 6020B	Lithium	0.014J	mg/L	0.030	10/02/23 19:49	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	10/02/23 19:49	
EPA 6020B	Selenium	0.0024J	mg/L	0.0050	10/02/23 19:49	
EPA 6020B	Thallium	0.00052J	mg/L	0.0010	10/02/23 19:49	
SM 2540C-2015	Total Dissolved Solids	512	mg/L	25.0	09/26/23 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	09/23/23 18:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	09/23/23 18:51	
EPA 300.0 Rev 2.1 1993	Sulfate	83.4	mg/L	1.0	09/23/23 18:51	M1
92689423011	**MIT-PZ-7D**					
EPA 6010D	Calcium	94.3	mg/L	1.0	10/11/23 18:34	
EPA 6020B	Barium	0.0059	mg/L	0.0050	10/02/23 19:53	
EPA 6020B	Boron	0.19	mg/L	0.040	10/02/23 19:53	
EPA 6020B	Chromium	0.0022J	mg/L	0.0050	10/02/23 19:53	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	10/02/23 19:53	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	10/02/23 19:53	
SM 2540C-2015	Total Dissolved Solids	302	mg/L	25.0	09/26/23 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/23/23 20:02	
EPA 300.0 Rev 2.1 1993	Sulfate	40.7	mg/L	1.0	09/23/23 20:02	
92689423013	**MIT-PZ-15**					
EPA 6010D	Calcium	89.3	mg/L	1.0	10/11/23 18:45	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689423013	**MIT-PZ-15**					
EPA 6020B	Barium	0.050	mg/L	0.0050	10/02/23 20:01	
EPA 6020B	Boron	0.18	mg/L	0.040	10/02/23 20:01	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	10/02/23 20:01	
SM 2540C-2015	Total Dissolved Solids	328	mg/L	25.0	09/26/23 16:42	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	09/23/23 20:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	09/23/23 20:31	
EPA 300.0 Rev 2.1 1993	Sulfate	74.9	mg/L	1.0	09/23/23 20:31	
92689423014	**MIT-PZ-14**					
EPA 6010D	Calcium	98.2	mg/L	1.0	10/11/23 18:50	
EPA 6020B	Barium	0.010	mg/L	0.0050	10/02/23 20:06	
EPA 6020B	Boron	0.027J	mg/L	0.040	10/02/23 20:06	B
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	10/02/23 20:06	
SM 2540C-2015	Total Dissolved Solids	293	mg/L	25.0	09/26/23 16:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/23/23 20:45	
EPA 300.0 Rev 2.1 1993	Sulfate	12.5	mg/L	1.0	09/23/23 20:45	
92689423015	**MIT-PZ-17**					
EPA 6010D	Calcium	73.3	mg/L	1.0	10/11/23 18:55	
EPA 6020B	Barium	0.058	mg/L	0.0050	10/02/23 20:10	
EPA 6020B	Boron	0.10	mg/L	0.040	10/02/23 20:10	B
EPA 6020B	Lithium	0.0012J	mg/L	0.030	10/02/23 20:10	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	10/02/23 20:10	
SM 2540C-2015	Total Dissolved Solids	256	mg/L	25.0	09/26/23 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	09/23/23 20:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	09/23/23 20:59	
EPA 300.0 Rev 2.1 1993	Sulfate	34.3	mg/L	1.0	09/23/23 20:59	
92689423016	**MIT-PZ-18**					
EPA 6010D	Calcium	129	mg/L	1.0	10/11/23 19:00	
EPA 6020B	Antimony	0.0040	mg/L	0.0030	10/04/23 19:26	
EPA 6020B	Barium	0.022	mg/L	0.0050	10/04/23 19:26	
EPA 6020B	Boron	0.41	mg/L	0.040	10/04/23 19:26	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	10/04/23 19:26	
SM 2540C-2015	Total Dissolved Solids	451	mg/L	25.0	09/26/23 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	09/23/23 21:14	
EPA 300.0 Rev 2.1 1993	Sulfate	93.8	mg/L	1.0	09/23/23 21:14	
92689423017	**MIT-APA12-EB-2**					
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	10/04/23 19:31	
92689423018	**MIT-PZ-33**					
EPA 6010D	Calcium	81.4	mg/L	1.0	10/12/23 17:04	
EPA 6020B	Barium	0.041	mg/L	0.0050	10/04/23 19:35	
EPA 6020B	Boron	0.45	mg/L	0.20	10/05/23 13:41	
SM 2540C-2015	Total Dissolved Solids	300	mg/L	25.0	09/26/23 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/24/23 22:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/24/23 22:06	
EPA 300.0 Rev 2.1 1993	Sulfate	34.8	mg/L	1.0	09/24/23 22:06	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689423019	**MIT-APA12-FD-1**					
EPA 6010D	Calcium	83.7	mg/L	1.0	10/12/23 17:20	
EPA 6020B	Barium	0.040	mg/L	0.0050	10/04/23 19:39	
EPA 6020B	Boron	0.39	mg/L	0.20	10/05/23 13:45	
SM 2540C-2015	Total Dissolved Solids	336	mg/L	25.0	09/26/23 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	09/24/23 22:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/24/23 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	34.4	mg/L	1.0	09/24/23 22:49	
92689423020	**MIT-PZ-57**					
EPA 6010D	Calcium	79.5	mg/L	1.0	10/12/23 17:25	
EPA 6020B	Barium	0.062	mg/L	0.0050	10/04/23 19:51	
EPA 6020B	Boron	0.20	mg/L	0.040	10/05/23 13:50	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	10/04/23 19:51	
EPA 6020B	Lithium	0.00089J	mg/L	0.030	10/04/23 19:51	
SM 2540C-2015	Total Dissolved Solids	311	mg/L	25.0	09/26/23 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	09/24/23 23:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	09/24/23 23:03	
EPA 300.0 Rev 2.1 1993	Sulfate	66.7	mg/L	1.0	09/24/23 23:03	
92689423021	**MIT-APA12-FD-2**					
EPA 6010D	Calcium	89.2	mg/L	1.0	10/12/23 17:30	
EPA 6020B	Barium	0.058	mg/L	0.0050	10/04/23 19:55	
EPA 6020B	Boron	0.18	mg/L	0.040	10/06/23 16:12	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	10/04/23 19:55	
EPA 6020B	Lithium	0.00083J	mg/L	0.030	10/04/23 19:55	
SM 2540C-2015	Total Dissolved Solids	304	mg/L	25.0	09/26/23 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	09/26/23 20:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	09/26/23 20:31	
EPA 300.0 Rev 2.1 1993	Sulfate	65.5	mg/L	1.0	09/26/23 20:31	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-1D **Lab ID: 92689423001** Collected: 09/19/23 11:05 Received: 09/21/23 09:07 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	**44.7**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 17:17	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	0.0012	1	09/29/23 12:00	10/02/23 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 18:51	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 18:51	7440-41-7	
Boron	**0.024J**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 18:51	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 18:51	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 18:51	7439-93-2	
Molybdenum	**0.0013J**	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 18:51	7782-49-2	
Thallium	**0.00028J**	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 18:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/09/23 09:00	10/09/23 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**146**	mg/L	25.0	25.0	1		09/26/23 11:30		
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		09/23/23 15:44	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/23/23 15:44	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		09/23/23 15:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-31 **Lab ID: 92689423002** Collected: 09/19/23 13:25 Received: 09/21/23 09:07 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	**86.9**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 17:22	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0042**	mg/L	0.0030	0.0012	1	09/29/23 12:00	10/02/23 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:07	7440-38-2	
Barium	**0.0071**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:07	7440-41-7	
Boron	**0.022J**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:07	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:07	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:07	7439-92-1	
Lithium	**0.00079J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:07	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	0.00013	1	10/09/23 09:00	10/09/23 12:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**265**	mg/L	25.0	25.0	1		09/26/23 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/23/23 15:59	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		09/23/23 15:59	16984-48-8	
Sulfate	**0.61J**	mg/L	1.0	0.50	1		09/23/23 15:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-16 **Lab ID: 92689423003** Collected: 09/19/23 15:25 Received: 09/21/23 09:07 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	**83.3**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 17:43	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	0.0012	1	09/29/23 12:00	10/02/23 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:12	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:12	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/03/23 18:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:12	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	0.00013	1	10/09/23 09:00	10/09/23 12:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**298**	mg/L	25.0	25.0	1		09/26/23 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		09/23/23 16:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 16:13	16984-48-8	
Sulfate	**37.5**	mg/L	1.0	0.50	1		09/23/23 16:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-EB-1 **Lab ID: 92689423004** Collected: 09/20/23 09:00 Received: 09/21/23 09:07 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	0.12	1	10/06/23 13:02	10/11/23 17:48	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	0.0012	1	09/29/23 12:00	10/02/23 19:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:16	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 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	0.00020	0.00013	1	10/09/23 09:00	10/09/23 13:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/26/23 11:38		
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		09/23/23 16:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 16:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/23/23 16:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-FB-1 **Lab ID: 92689423005** Collected: 09/19/23 10:15 Received: 09/21/23 09:07 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	0.12	1	10/06/23 13:02	10/11/23 17:53	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	0.0012	1	09/29/23 12:00	10/03/23 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/03/23 18:32	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/03/23 18:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/03/23 18:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/23 12:00	10/03/23 18:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/03/23 18:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/03/23 18:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/03/23 18:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/03/23 18:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/03/23 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/03/23 18:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/03/23 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/03/23 18:32	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	0.00013	1	10/09/23 09:00	10/09/23 13:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/26/23 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		09/23/23 17:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 17:10	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/23/23 17:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-2D **Lab ID: 92689423006** Collected: 09/19/23 11:06 Received: 09/21/23 09:07 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	**13.7**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 17:58	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	0.0012	1	09/29/23 12:00	10/02/23 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:32	7440-38-2	
Barium	**0.0027J**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:32	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:32	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:32	7440-43-9	
Chromium	**0.0071**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:32	7439-93-2	
Molybdenum	**0.00080J**	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:32	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	0.00013	1	10/09/23 09:00	10/09/23 13:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		09/26/23 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		09/23/23 17:25	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		09/23/23 17:25	16984-48-8	
Sulfate	**3.2**	mg/L	1.0	0.50	1		09/23/23 17:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-32 **Lab ID: 92689423007** Collected: 09/19/23 13:00 Received: 09/21/23 09:07 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	**64.6**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:03	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	0.0012	1	09/29/23 12:00	10/02/23 19:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:36	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:36	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:36	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:36	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	0.00013	1	10/09/23 09:00	10/09/23 13:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**217**	mg/L	25.0	25.0	1		09/26/23 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		09/23/23 17:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 17:39	16984-48-8	
Sulfate	**1.5**	mg/L	1.0	0.50	1		09/23/23 17:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-25 **Lab ID: 92689423008** Collected: 09/19/23 15:28 Received: 09/21/23 09:07 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	**80.3**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:19	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	0.0012	1	09/29/23 12:00	10/02/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:41	7440-38-2	
Barium	**0.11**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:41	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:41	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:41	7439-92-1	
Lithium	**0.0064J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:41	7782-49-2	
Thallium	**0.00061J**	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:41	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	0.00013	1	10/09/23 09:00	10/09/23 13:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**311**	mg/L	25.0	25.0	1		09/26/23 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		09/23/23 17:53	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/23/23 17:53	16984-48-8	
Sulfate	**34.7**	mg/L	1.0	0.50	1		09/23/23 17:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-23A **Lab ID: 92689423009** Collected: 09/20/23 10:20 Received: 09/21/23 09:07 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	**131**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:24	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	0.0012	1	09/29/23 12:00	10/02/23 19:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:45	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:45	7440-41-7	
Boron	**0.15**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:45	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:45	7439-92-1	
Lithium	**0.00088J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:45	7439-98-7	
Selenium	**0.0023J**	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:45	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	0.00013	1	10/09/23 09:00	10/09/23 13:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**421**	mg/L	25.0	25.0	1		09/26/23 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		09/23/23 18:08	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		09/23/23 18:08	16984-48-8	
Sulfate	**44.3**	mg/L	1.0	0.50	1		09/23/23 18:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-19 **Lab ID: 92689423010** Collected: 09/20/23 12:36 Received: 09/21/23 09:07 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	**143**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 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	0.0012	1	09/29/23 12:00	10/02/23 19:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:49	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:49	7440-41-7	
Boron	**0.62**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:49	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:49	7439-93-2	
Molybdenum	**0.0019J**	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:49	7439-98-7	
Selenium	**0.0024J**	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:49	7782-49-2	
Thallium	**0.00052J**	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:49	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	0.00013	1	10/09/23 09:00	10/09/23 13:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**512**	mg/L	25.0	25.0	1		09/26/23 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		09/23/23 18:51	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		09/23/23 18:51	16984-48-8	
Sulfate	**83.4**	mg/L	1.0	0.50	1		09/23/23 18:51	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-7D **Lab ID: 92689423011** Collected: 09/20/23 14:30 Received: 09/21/23 09:07 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	**94.3**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:34	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	0.0012	1	09/29/23 12:00	10/02/23 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:53	7440-38-2	
Barium	**0.0059**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:53	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:53	7440-43-9	
Chromium	**0.0022J**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:53	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:53	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:53	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	0.00013	1	10/09/23 09:00	10/09/23 13:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**302**	mg/L	25.0	25.0	1		09/26/23 16:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/23/23 20:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 20:02	16984-48-8	
Sulfate	**40.7**	mg/L	1.0	0.50	1		09/23/23 20:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-FB-2 **Lab ID: 92689423012** Collected: 09/20/23 15:05 Received: 09/21/23 09:07 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	0.12	1	10/06/23 13:02	10/11/23 18:39	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	0.0012	1	09/29/23 12:00	10/02/23 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 19:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 19:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 19:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 19:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 19:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 19:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 19:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 19:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 19:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 19:57	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	0.00013	1	10/09/23 09:00	10/09/23 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/26/23 16:42		
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		09/23/23 20:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 20:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/23/23 20:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-15 **Lab ID: 92689423013** Collected: 09/20/23 09:40 Received: 09/21/23 09:07 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	**89.3**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:45	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	0.0012	1	09/29/23 12:00	10/02/23 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 20:01	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 20:01	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 20:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 20:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 20:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 20:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 20:01	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 20:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 20:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 20:01	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	0.00013	1	10/09/23 09:00	10/09/23 13:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**328**	mg/L	25.0	25.0	1		09/26/23 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.2**	mg/L	1.0	0.60	1		09/23/23 20:31	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		09/23/23 20:31	16984-48-8	
Sulfate	**74.9**	mg/L	1.0	0.50	1		09/23/23 20:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-14 **Lab ID: 92689423014** Collected: 09/20/23 11:20 Received: 09/21/23 09:07 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	**98.2**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:50	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	0.0012	1	09/29/23 12:00	10/02/23 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 20:06	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 20:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 20:06	7440-41-7	
Boron	**0.027J**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 20:06	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 20:06	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 20:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 20:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 20:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 20:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 20:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 20:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 20:06	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	0.00013	1	10/09/23 09:00	10/09/23 13:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**293**	mg/L	25.0	25.0	1		09/26/23 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/23/23 20:45	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 20:45	16984-48-8	
Sulfate	**12.5**	mg/L	1.0	0.50	1		09/23/23 20:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-17 **Lab ID: 92689423015** Collected: 09/20/23 13:25 Received: 09/21/23 09:07 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	**73.3**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 18:55	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	0.0012	1	09/29/23 12:00	10/02/23 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/02/23 20:10	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/02/23 20:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/02/23 20:10	7440-41-7	
Boron	**0.10**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/02/23 20:10	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/02/23 20:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/02/23 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/02/23 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/02/23 20:10	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/02/23 20:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/02/23 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/02/23 20:10	7782-49-2	
Thallium	**0.00024J**	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/02/23 20:10	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	0.00013	1	10/09/23 09:00	10/09/23 14:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**256**	mg/L	25.0	25.0	1		09/26/23 16:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		09/23/23 20:59	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		09/23/23 20:59	16984-48-8	
Sulfate	**34.3**	mg/L	1.0	0.50	1		09/23/23 20:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-18 **Lab ID: 92689423016** Collected: 09/20/23 14:55 Received: 09/21/23 09:07 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	**129**	mg/L	1.0	0.12	1	10/06/23 13:02	10/11/23 19:00	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0040**	mg/L	0.0030	0.0012	1	09/29/23 12:00	10/04/23 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	09/29/23 12:00	10/04/23 19:26	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/29/23 12:00	10/04/23 19:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/29/23 12:00	10/04/23 19:26	7440-41-7	
Boron	**0.41**	mg/L	0.040	0.0086	1	09/29/23 12:00	10/04/23 19:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/29/23 12:00	10/04/23 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/29/23 12:00	10/04/23 19:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/29/23 12:00	10/04/23 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	09/29/23 12:00	10/04/23 19:26	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	09/29/23 12:00	10/04/23 19:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/29/23 12:00	10/04/23 19:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/29/23 12:00	10/04/23 19:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/29/23 12:00	10/04/23 19:26	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	0.00013	1	10/09/23 09:00	10/09/23 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**451**	mg/L	25.0	25.0	1		09/26/23 16:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		09/23/23 21:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/23/23 21:14	16984-48-8	
Sulfate	**93.8**	mg/L	1.0	0.50	1		09/23/23 21:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-EB-2 **Lab ID: 92689423017** Collected: 09/21/23 09:00 Received: 09/22/23 10:28 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	0.12	1	10/06/23 13:34	10/12/23 16:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.0012	1	10/03/23 13:13	10/04/23 19:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	10/03/23 13:13	10/04/23 19:31	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	10/03/23 13:13	10/04/23 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/03/23 13:13	10/04/23 19:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	10/03/23 13:13	10/05/23 13:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/03/23 13:13	10/04/23 19:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/03/23 13:13	10/04/23 19:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/03/23 13:13	10/04/23 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	10/03/23 13:13	10/04/23 19:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/03/23 13:13	10/04/23 19:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/03/23 13:13	10/04/23 19:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/03/23 13:13	10/04/23 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/03/23 13:13	10/04/23 19:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/09/23 09:00	10/09/23 14:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		09/26/23 16:44		
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		09/24/23 21:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/24/23 21:52	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/24/23 21:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-33 **Lab ID: 92689423018** Collected: 09/21/23 09:15 Received: 09/22/23 10:28 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	**81.4**	mg/L	1.0	0.12	1	10/06/23 13:34	10/12/23 17:04	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	0.0012	1	10/03/23 13:13	10/04/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	10/03/23 13:13	10/04/23 19:35	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00067	1	10/03/23 13:13	10/04/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/03/23 13:13	10/04/23 19:35	7440-41-7	
Boron	**0.45**	mg/L	0.20	0.043	5	10/03/23 13:13	10/05/23 13:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/03/23 13:13	10/04/23 19:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/03/23 13:13	10/04/23 19:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/03/23 13:13	10/04/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	10/03/23 13:13	10/04/23 19:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/03/23 13:13	10/04/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/03/23 13:13	10/04/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/03/23 13:13	10/04/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/03/23 13:13	10/04/23 19:35	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	0.00013	1	10/09/23 09:00	10/09/23 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**300**	mg/L	25.0	25.0	1		09/26/23 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		09/24/23 22:06	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/24/23 22:06	16984-48-8	
Sulfate	**34.8**	mg/L	1.0	0.50	1		09/24/23 22:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-FD-1 **Lab ID: 92689423019** Collected: 09/21/23 00:00 Received: 09/22/23 10:28 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	**83.7**	mg/L	1.0	0.12	1	10/06/23 13:34	10/12/23 17:20	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	0.0012	1	10/03/23 13:13	10/04/23 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	10/03/23 13:13	10/04/23 19:39	7440-38-2	
Barium	**0.040**	mg/L	0.0050	0.00067	1	10/03/23 13:13	10/04/23 19:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/03/23 13:13	10/04/23 19:39	7440-41-7	
Boron	**0.39**	mg/L	0.20	0.043	5	10/03/23 13:13	10/05/23 13:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/03/23 13:13	10/04/23 19:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	10/03/23 13:13	10/04/23 19:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/03/23 13:13	10/04/23 19:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	10/03/23 13:13	10/04/23 19:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	10/03/23 13:13	10/04/23 19:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/03/23 13:13	10/04/23 19:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/03/23 13:13	10/04/23 19:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/03/23 13:13	10/04/23 19:39	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	0.00013	1	10/09/23 09:00	10/09/23 14:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**336**	mg/L	25.0	25.0	1		09/26/23 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		09/24/23 22:49	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/24/23 22:49	16984-48-8	
Sulfate	**34.4**	mg/L	1.0	0.50	1		09/24/23 22:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-PZ-57 **Lab ID: 92689423020** Collected: 09/21/23 10:45 Received: 09/22/23 10:28 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	**79.5**	mg/L	1.0	0.12	1	10/06/23 13:34	10/12/23 17:25	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	0.0012	1	10/03/23 13:13	10/04/23 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	10/03/23 13:13	10/04/23 19:51	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00067	1	10/03/23 13:13	10/04/23 19:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/03/23 13:13	10/04/23 19:51	7440-41-7	
Boron	**0.20**	mg/L	0.040	0.0086	1	10/03/23 13:13	10/05/23 13:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/03/23 13:13	10/04/23 19:51	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	10/03/23 13:13	10/04/23 19:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/03/23 13:13	10/04/23 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	10/03/23 13:13	10/04/23 19:51	7439-92-1	
Lithium	**0.00089J**	mg/L	0.030	0.00073	1	10/03/23 13:13	10/04/23 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/03/23 13:13	10/04/23 19:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/03/23 13:13	10/04/23 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/03/23 13:13	10/04/23 19:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/09/23 09:00	10/09/23 14:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**311**	mg/L	25.0	25.0	1		09/26/23 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		09/24/23 23:03	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		09/24/23 23:03	16984-48-8	
Sulfate	**66.7**	mg/L	1.0	0.50	1		09/24/23 23:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Sample: MIT-APA12-FD-2 **Lab ID: 92689423021** Collected: 09/21/23 00:00 Received: 09/22/23 10:28 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	**89.2**	mg/L	1.0	0.12	1	10/06/23 13:34	10/12/23 17:30	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	0.0012	1	10/03/23 13:13	10/04/23 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	10/03/23 13:13	10/04/23 19:55	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	10/03/23 13:13	10/04/23 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	10/03/23 13:13	10/04/23 19:55	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.0086	1	10/03/23 13:13	10/06/23 16:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	10/03/23 13:13	10/04/23 19:55	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	10/03/23 13:13	10/04/23 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	10/03/23 13:13	10/04/23 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	10/03/23 13:13	10/04/23 19:55	7439-92-1	
Lithium	**0.00083J**	mg/L	0.030	0.00073	1	10/03/23 13:13	10/04/23 19:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	10/03/23 13:13	10/04/23 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	10/03/23 13:13	10/04/23 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	10/03/23 13:13	10/04/23 19:55	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	0.00013	1	09/28/23 13:00	09/28/23 18:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**304**	mg/L	25.0	25.0	1		09/26/23 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		09/26/23 20:31	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		09/26/23 20:31	16984-48-8	
Sulfate	**65.5**	mg/L	1.0	0.50	1		09/26/23 20:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 804662
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016

METHOD BLANK: 4166999 Matrix: Water
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/11/23 16:56	

LABORATORY CONTROL SAMPLE: 4167000

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4167207 4167208

Parameter	Units	92689423002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	86.9	1	1	86.9	83.4	2	-348	75-125	4	20	M1

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 804685
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

METHOD BLANK: 4167200 Matrix: Water
Associated Lab Samples: 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/12/23 15:34	

LABORATORY CONTROL SAMPLE: 4167201

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: 4167202 4167203

Parameter	Units	92689426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	0.97J	1.0	96	103	75-125		20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 803107
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015

METHOD BLANK: 4159713 Matrix: Water
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	10/02/23 18:43	
Arsenic	mg/L	ND	0.0050	0.0037	10/02/23 18:43	
Barium	mg/L	ND	0.0050	0.00067	10/02/23 18:43	
Beryllium	mg/L	ND	0.00050	0.000054	10/02/23 18:43	
Boron	mg/L	0.012J	0.040	0.0086	10/02/23 18:43	
Cadmium	mg/L	ND	0.00050	0.00011	10/02/23 18:43	
Chromium	mg/L	ND	0.0050	0.0011	10/02/23 18:43	
Cobalt	mg/L	ND	0.0050	0.00039	10/02/23 18:43	
Lead	mg/L	ND	0.0010	0.00012	10/02/23 18:43	
Lithium	mg/L	ND	0.030	0.00073	10/02/23 18:43	
Molybdenum	mg/L	ND	0.010	0.00074	10/02/23 18:43	
Selenium	mg/L	ND	0.0050	0.0014	10/02/23 18:43	
Thallium	mg/L	ND	0.0010	0.00018	10/02/23 18:43	

LABORATORY CONTROL SAMPLE: 4159714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.11	109	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.10	105	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.11	113	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4159715 4159716

Parameter	Units	92689423001 Result	MS Spike Conc.	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	113	113	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	4	20	
Barium	mg/L	0.014	0.1	0.1	0.12	0.12	108	110	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Boron	mg/L	0.024J	1	1	1.1	1.1	107	107	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	104	107	75-125	2	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Molybdenum	mg/L	0.0013J	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Thallium	mg/L	0.00028J	0.1	0.1	0.10	0.10	100	102	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 803733
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423016, 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

METHOD BLANK: 4162519 Matrix: Water
Associated Lab Samples: 92689423016, 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	10/04/23 19:02	
Arsenic	mg/L	ND	0.0050	0.0037	10/04/23 19:02	
Barium	mg/L	ND	0.0050	0.00067	10/04/23 19:02	
Beryllium	mg/L	ND	0.00050	0.000054	10/04/23 19:02	
Boron	mg/L	ND	0.040	0.0086	10/04/23 19:02	
Cadmium	mg/L	ND	0.00050	0.00011	10/04/23 19:02	
Chromium	mg/L	ND	0.0050	0.0011	10/04/23 19:02	
Cobalt	mg/L	ND	0.0050	0.00039	10/04/23 19:02	
Lead	mg/L	ND	0.0010	0.00012	10/04/23 19:02	
Lithium	mg/L	ND	0.030	0.00073	10/04/23 19:02	
Molybdenum	mg/L	ND	0.010	0.00074	10/04/23 19:02	
Selenium	mg/L	ND	0.0050	0.0014	10/04/23 19:02	
Thallium	mg/L	ND	0.0010	0.00018	10/04/23 19:02	

LABORATORY CONTROL SAMPLE: 4162520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	112	80-120	
Molybdenum	mg/L	0.1	0.11	105	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: 4162521 4162522

Parameter	Units	92689426009 Result	MS Spike Conc.	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	108	112	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4162521 4162522

Parameter	Units	92689426009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.052	0.1	0.1	0.16	0.17	108	117	75-125	6	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Boron	mg/L	5.8	1	1	6.9	7.3	115	155	75-125	5	20	M1
Cadmium	mg/L	0.00045J	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Cobalt	mg/L	0.029	0.1	0.1	0.13	0.13	98	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.090	0.096	89	95	75-125	7	20	
Lithium	mg/L	0.0079J	0.1	0.1	0.11J	0.11J	103	103	75-125		20	
Molybdenum	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	108	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Thallium	mg/L	0.0010	0.1	0.1	0.090	0.095	89	94	75-125	6	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 802712
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423021

METHOD BLANK: 4157672 Matrix: Water
Associated Lab Samples: 92689423021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/28/23 17:28	

LABORATORY CONTROL SAMPLE: 4157673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0028	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4157674 4157675

Parameter	Units	92689714001 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	0.0027	0.0027	108	107	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 804579
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020

METHOD BLANK: 4166775 Matrix: Water
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/09/23 12:05	

LABORATORY CONTROL SAMPLE: 4166776

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: 4166777 4166778

Parameter	Units	92689423001 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	93	96	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 802060
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010

METHOD BLANK: 4154549 Matrix: Water
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009, 92689423010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/26/23 11:29	

LABORATORY CONTROL SAMPLE: 4154550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 4154551

Parameter	Units	92689423001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	148	1	10	

SAMPLE DUPLICATE: 4154552

Parameter	Units	92689426004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5800	4260	31	10	D6

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 802180
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

METHOD BLANK: 4155352 Matrix: Water
Associated Lab Samples: 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020, 92689423021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/26/23 16:40	

LABORATORY CONTROL SAMPLE: 4155353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	80-120	

SAMPLE DUPLICATE: 4155354

Parameter	Units	92689423011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	302	309	2	10	

SAMPLE DUPLICATE: 4155355

Parameter	Units	92689423018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	300	282	6	10	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 801575
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009

METHOD BLANK: 4152151 Matrix: Water
Associated Lab Samples: 92689423001, 92689423002, 92689423003, 92689423004, 92689423005, 92689423006, 92689423007, 92689423008, 92689423009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/23/23 11:12	
Fluoride	mg/L	ND	0.10	0.050	09/23/23 11:12	
Sulfate	mg/L	ND	1.0	0.50	09/23/23 11:12	

LABORATORY CONTROL SAMPLE: 4152152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.5	105	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4152153 4152154

Parameter	Units	92689489016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.7	50	50	64.6	68.0	100	107	90-110	5	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.6	94	98	90-110	4	10	
Sulfate	mg/L	ND	50	50	49.1	50.6	98	101	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4152155 4152156

Parameter	Units	92689259003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.0	56.0	102	106	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	97	90-110	4	10	
Sulfate	mg/L	7.8	50	50	58.5	60.3	101	105	90-110	3	10	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 801576
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020

METHOD BLANK: 4152157 Matrix: Water
Associated Lab Samples: 92689423010, 92689423011, 92689423012, 92689423013, 92689423014, 92689423015, 92689423016, 92689423017, 92689423018, 92689423019, 92689423020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/23/23 18:22	
Fluoride	mg/L	ND	0.10	0.050	09/23/23 18:22	
Sulfate	mg/L	ND	1.0	0.50	09/23/23 18:22	

LABORATORY CONTROL SAMPLE: 4152158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	53.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4152159 4152160

Parameter	Units	92689423010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	55.5	56.0	103	104	90-110	1	10	
Fluoride	mg/L	0.082J	2.5	2.5	2.5	2.5	96	97	90-110	2	10	
Sulfate	mg/L	83.4	50	50	126	128	86	89	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4152161 4152162

Parameter	Units	92689426004 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	ND	ND	0	0	90-110		10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1
Sulfate	mg/L	152	50	50	192	196	81	89	90-110	2	10	M1

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

QC Batch: 802124
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92689423021

METHOD BLANK: 4155022 Matrix: Water
Associated Lab Samples: 92689423021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/26/23 15:58	
Fluoride	mg/L	ND	0.10	0.050	09/26/23 15:58	
Sulfate	mg/L	ND	1.0	0.50	09/26/23 15:58	

LABORATORY CONTROL SAMPLE: 4155023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.5	105	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4155024 4155025

Parameter	Units	92689791018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.9	50	50	68.2	70.1	99	102	90-110	3	10	
Fluoride	mg/L	0.12	2.5	2.5	2.5	2.6	93	97	90-110	4	10	
Sulfate	mg/L	10.3	50	50	60.0	61.9	100	103	90-110	3	10	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689423001	**MIT-PZ-1D**	EPA 3010A	804662	EPA 6010D	804743
92689423002	**MIT-PZ-31**	EPA 3010A	804662	EPA 6010D	804743
92689423003	**MIT-PZ-16**	EPA 3010A	804662	EPA 6010D	804743
92689423004	**MIT-APA12-EB-1**	EPA 3010A	804662	EPA 6010D	804743
92689423005	**MIT-APA12-FB-1**	EPA 3010A	804662	EPA 6010D	804743
92689423006	**MIT-PZ-2D**	EPA 3010A	804662	EPA 6010D	804743
92689423007	**MIT-PZ-32**	EPA 3010A	804662	EPA 6010D	804743
92689423008	**MIT-PZ-25**	EPA 3010A	804662	EPA 6010D	804743
92689423009	**MIT-PZ-23A**	EPA 3010A	804662	EPA 6010D	804743
92689423010	**MIT-PZ-19**	EPA 3010A	804662	EPA 6010D	804743
92689423011	**MIT-PZ-7D**	EPA 3010A	804662	EPA 6010D	804743
92689423012	**MIT-APA12-FB-2**	EPA 3010A	804662	EPA 6010D	804743
92689423013	**MIT-PZ-15**	EPA 3010A	804662	EPA 6010D	804743
92689423014	**MIT-PZ-14**	EPA 3010A	804662	EPA 6010D	804743
92689423015	**MIT-PZ-17**	EPA 3010A	804662	EPA 6010D	804743
92689423016	**MIT-PZ-18**	EPA 3010A	804662	EPA 6010D	804743
92689423017	**MIT-APA12-EB-2**	EPA 3010A	804685	EPA 6010D	804769
92689423018	**MIT-PZ-33**	EPA 3010A	804685	EPA 6010D	804769
92689423019	**MIT-APA12-FD-1**	EPA 3010A	804685	EPA 6010D	804769
92689423020	**MIT-PZ-57**	EPA 3010A	804685	EPA 6010D	804769
92689423021	**MIT-APA12-FD-2**	EPA 3010A	804685	EPA 6010D	804769
92689423001	**MIT-PZ-1D**	EPA 3005A	803107	EPA 6020B	803196
92689423002	**MIT-PZ-31**	EPA 3005A	803107	EPA 6020B	803196
92689423003	**MIT-PZ-16**	EPA 3005A	803107	EPA 6020B	803196
92689423004	**MIT-APA12-EB-1**	EPA 3005A	803107	EPA 6020B	803196
92689423005	**MIT-APA12-FB-1**	EPA 3005A	803107	EPA 6020B	803196
92689423006	**MIT-PZ-2D**	EPA 3005A	803107	EPA 6020B	803196
92689423007	**MIT-PZ-32**	EPA 3005A	803107	EPA 6020B	803196
92689423008	**MIT-PZ-25**	EPA 3005A	803107	EPA 6020B	803196
92689423009	**MIT-PZ-23A**	EPA 3005A	803107	EPA 6020B	803196
92689423010	**MIT-PZ-19**	EPA 3005A	803107	EPA 6020B	803196
92689423011	**MIT-PZ-7D**	EPA 3005A	803107	EPA 6020B	803196
92689423012	**MIT-APA12-FB-2**	EPA 3005A	803107	EPA 6020B	803196
92689423013	**MIT-PZ-15**	EPA 3005A	803107	EPA 6020B	803196
92689423014	**MIT-PZ-14**	EPA 3005A	803107	EPA 6020B	803196
92689423015	**MIT-PZ-17**	EPA 3005A	803107	EPA 6020B	803196
92689423016	**MIT-PZ-18**	EPA 3005A	803733	EPA 6020B	803905
92689423017	**MIT-APA12-EB-2**	EPA 3005A	803733	EPA 6020B	803905
92689423018	**MIT-PZ-33**	EPA 3005A	803733	EPA 6020B	803905
92689423019	**MIT-APA12-FD-1**	EPA 3005A	803733	EPA 6020B	803905
92689423020	**MIT-PZ-57**	EPA 3005A	803733	EPA 6020B	803905
92689423021	**MIT-APA12-FD-2**	EPA 3005A	803733	EPA 6020B	803905
92689423001	**MIT-PZ-1D**	EPA 7470A	804579	EPA 7470A	804597
92689423002	**MIT-PZ-31**	EPA 7470A	804579	EPA 7470A	804597
92689423003	**MIT-PZ-16**	EPA 7470A	804579	EPA 7470A	804597
92689423004	**MIT-APA12-EB-1**	EPA 7470A	804579	EPA 7470A	804597
92689423005	**MIT-APA12-FB-1**	EPA 7470A	804579	EPA 7470A	804597

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689423006	**MIT-PZ-2D**	EPA 7470A	804579	EPA 7470A	804597
92689423007	**MIT-PZ-32**	EPA 7470A	804579	EPA 7470A	804597
92689423008	**MIT-PZ-25**	EPA 7470A	804579	EPA 7470A	804597
92689423009	**MIT-PZ-23A**	EPA 7470A	804579	EPA 7470A	804597
92689423010	**MIT-PZ-19**	EPA 7470A	804579	EPA 7470A	804597
92689423011	**MIT-PZ-7D**	EPA 7470A	804579	EPA 7470A	804597
92689423012	**MIT-APA12-FB-2**	EPA 7470A	804579	EPA 7470A	804597
92689423013	**MIT-PZ-15**	EPA 7470A	804579	EPA 7470A	804597
92689423014	**MIT-PZ-14**	EPA 7470A	804579	EPA 7470A	804597
92689423015	**MIT-PZ-17**	EPA 7470A	804579	EPA 7470A	804597
92689423016	**MIT-PZ-18**	EPA 7470A	804579	EPA 7470A	804597
92689423017	**MIT-APA12-EB-2**	EPA 7470A	804579	EPA 7470A	804597
92689423018	**MIT-PZ-33**	EPA 7470A	804579	EPA 7470A	804597
92689423019	**MIT-APA12-FD-1**	EPA 7470A	804579	EPA 7470A	804597
92689423020	**MIT-PZ-57**	EPA 7470A	804579	EPA 7470A	804597
92689423021	**MIT-APA12-FD-2**	EPA 7470A	802712	EPA 7470A	802784
92689423001	**MIT-PZ-1D**	SM 2540C-2015	802060		
92689423002	**MIT-PZ-31**	SM 2540C-2015	802060		
92689423003	**MIT-PZ-16**	SM 2540C-2015	802060		
92689423004	**MIT-APA12-EB-1**	SM 2540C-2015	802060		
92689423005	**MIT-APA12-FB-1**	SM 2540C-2015	802060		
92689423006	**MIT-PZ-2D**	SM 2540C-2015	802060		
92689423007	**MIT-PZ-32**	SM 2540C-2015	802060		
92689423008	**MIT-PZ-25**	SM 2540C-2015	802060		
92689423009	**MIT-PZ-23A**	SM 2540C-2015	802060		
92689423010	**MIT-PZ-19**	SM 2540C-2015	802060		
92689423011	**MIT-PZ-7D**	SM 2540C-2015	802180		
92689423012	**MIT-APA12-FB-2**	SM 2540C-2015	802180		
92689423013	**MIT-PZ-15**	SM 2540C-2015	802180		
92689423014	**MIT-PZ-14**	SM 2540C-2015	802180		
92689423015	**MIT-PZ-17**	SM 2540C-2015	802180		
92689423016	**MIT-PZ-18**	SM 2540C-2015	802180		
92689423017	**MIT-APA12-EB-2**	SM 2540C-2015	802180		
92689423018	**MIT-PZ-33**	SM 2540C-2015	802180		
92689423019	**MIT-APA12-FD-1**	SM 2540C-2015	802180		
92689423020	**MIT-PZ-57**	SM 2540C-2015	802180		
92689423021	**MIT-APA12-FD-2**	SM 2540C-2015	802180		
92689423001	**MIT-PZ-1D**	EPA 300.0 Rev 2.1 1993	801575		
92689423002	**MIT-PZ-31**	EPA 300.0 Rev 2.1 1993	801575		
92689423003	**MIT-PZ-16**	EPA 300.0 Rev 2.1 1993	801575		
92689423004	**MIT-APA12-EB-1**	EPA 300.0 Rev 2.1 1993	801575		
92689423005	**MIT-APA12-FB-1**	EPA 300.0 Rev 2.1 1993	801575		
92689423006	**MIT-PZ-2D**	EPA 300.0 Rev 2.1 1993	801575		
92689423007	**MIT-PZ-32**	EPA 300.0 Rev 2.1 1993	801575		
92689423008	**MIT-PZ-25**	EPA 300.0 Rev 2.1 1993	801575		
92689423009	**MIT-PZ-23A**	EPA 300.0 Rev 2.1 1993	801575		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2
Pace Project No.: 92689423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689423010	**MIT-PZ-19**	EPA 300.0 Rev 2.1 1993	801576		
92689423011	**MIT-PZ-7D**	EPA 300.0 Rev 2.1 1993	801576		
92689423012	**MIT-APA12-FB-2**	EPA 300.0 Rev 2.1 1993	801576		
92689423013	**MIT-PZ-15**	EPA 300.0 Rev 2.1 1993	801576		
92689423014	**MIT-PZ-14**	EPA 300.0 Rev 2.1 1993	801576		
92689423015	**MIT-PZ-17**	EPA 300.0 Rev 2.1 1993	801576		
92689423016	**MIT-PZ-18**	EPA 300.0 Rev 2.1 1993	801576		
92689423017	**MIT-APA12-EB-2**	EPA 300.0 Rev 2.1 1993	801576		
92689423018	**MIT-PZ-33**	EPA 300.0 Rev 2.1 1993	801576		
92689423019	**MIT-APA12-FD-1**	EPA 300.0 Rev 2.1 1993	801576		
92689423020	**MIT-PZ-57**	EPA 300.0 Rev 2.1 1993	801576		
92689423021	**MIT-APA12-FD-2**	EPA 300.0 Rev 2.1 1993	802124		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power **Project #:** **WO# : 92689423**

92689423

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

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

Date/Initials Person Examining Contents: 4-21-23/

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.6

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

#810294624315

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92689423

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

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

Project #

PM: BV Due Date: 10/05/23

CLIENT: 92-GP-MIT

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

*****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP2U	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		—	—			—	—																		2				
2		—	—			—	—																		2				
3		—	—			—	—																		2				
4		—	—			—	—																		2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	~~10834~~ 16601-5

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 228/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-1D	WG	G			9/19/23	1105		5	X		X							X	X	X	X		001
2	MIT-PZ-3I	WG	G			9/19/23	1325		5	X		X							X	X	X	X		002
3	MIT-PZ-16	WG	G			9/19/23	1525		5	X		X							X	X	X	X		003
4	MIT-APA12-EB-1	WG	G			9/20/23	0900		5	X		X							X	X	X	X		004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

92689423

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/20/23	1700	[signature]	9/21	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

Unwanted Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92689423

PM: BV **Due Date: 10/05/23**

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: 9-21-23 JCC

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: 6.0 **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): 6.0

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Trk # 7840 2592 0572

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ **Date/Time:** _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92689423**

PM: BV Due Date: 10/05/23

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13211	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-FB-1	WQ	G			9/19/23	1015		5	X		X							X	X	X	X		005
2	MIT-PZ-2D	WG	G			9/19/23	1106		5	X		X							X	X	X	X		006
3	MIT-PZ-32	WG	G			9/19/23	1300		5	X		X							X	X	X	X		007
4	MIT-PZ-25	WG	G			9/19/23	1528		5	X		X							X	X	X	X		008
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/20/23	1700	JCL	9.21.23	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

Unexpected Note: By signing this Form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92689423

PM: BV Due Date: 10/05/23

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: MT 9-21-23

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

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

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 6.0 **Correction Factor:** Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 6.0

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

FED Ex WB 7890-2592-0561

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Varg
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-23A	WG	G			9/20/23	1020		5	X		X						X	X	X	X		09
2	MIT-PZ-19	WG	G			9/20/23	1236		5	X		X						X	X	X	X		010
3	MIT-PZ-7D	WG	G			9/20/23	1430		5	X		X						X	X	X	X		011
4	MIT-APA12-FB-2	WQ	G			9/20/23	1505		5	X		X						X	X	X	X		012
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	9/20/23	1700	[signature] / [illegible]	9/21/23	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 4-21-23

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.9 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.9

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

1840 2592 0583

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP2ZN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1	1																		2				
2		1	1			1	1																		2				
3		1	1			1	1																		2				
4		1	1			1	1																		2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 10 Day

Section B Required Project Information:

Report To: SCS Contacts
Copy To: Wood/WSP E&I Contacts
Purchase Order No.:
Project Name: Mitchell AP-A, AP-1, AP-2
Project Number:

Section C Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: C, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-15	WG	G			9/20/23	0940		5	X		X							X	X	X	X		013
2	MIT-PZ-14	WG	G			9/20/23	1120		5	X		X							X	X	X	X		014
3	MIT-PZ-17	WG	G			9/20/23	1325		5	X		X							X	X	X	X		015
4	MIT-PZ-18	WG	G			9/20/23	1455		5	X		X							X	X	X	X		016
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	9/20/23	1700		9-21	0901	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed (MM/DD/YY): 09/20/23

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92689423

PM: BV Due Date: 10/05/23

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: 4-22-23 JB

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 5.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.8

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

#810244624395

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92689423

PM: BV Due Date: 10/05/23

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																									2				
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	92689423 Pace Project No./ Lab I.D.
1	MIT-APA12-EB-2	WQ	G			9/21/23	0900		5	X		X						X	X	X	X			017
2	MIT-PZ-33	WG	G			9/21/23	0915		5	X		X						X	X	X	X			
3	MIT-APA12-ED-1	WG	G			9/21/23	—		5	X		X						X	X	X	X			
4	MIT-PZ-57	WG	G			9/21/23	1045		5	X		X						X	X	X	X			
5	MIT-APA12-ED-2	WG	G			9/21/23	—		5	X		X						X	X	X	X			
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/21/23	1430				

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Daniel Howard	DATE Signed (MM/DD/YY): 09/21/23				
SIGNATURE of SAMPLER:	Daniel Howard					

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Varig
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-EB-1	WQ	G			9/21/23	0900		5	X		X						X	X	X	X		92689423
2	MIT-PZ-33	WG	G			9/21/23	0915		5	X		X						X	X	X	X		017
3	MIT-APA12-ED-1	WG	G			9/21/23	—		5	X		X						X	X	X	X		018
4	MIT-PZ-57	WG	G			9/21/23	1045		5	X		X						X	X	X	X		019
5	MIT-APA12-ED-2	WG	G			9/21/23	→		5	X		X						X	X	X	X		020
6																								021
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/21/23	1430		9/22	1028	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/21/23

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

October 17, 2023

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between September 21, 2023 and September 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP

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

CERTIFICATIONS

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92689424001	**MIT-PZ-1D**	Water	09/19/23 11:05	09/21/23 09:07
92689424002	**MIT-PZ-31**	Water	09/19/23 13:25	09/21/23 09:07
92689424003	**MIT-PZ-16**	Water	09/19/23 15:25	09/21/23 09:07
92689424004	**MIT-APA12-EB-1**	Water	09/20/23 09:00	09/21/23 09:07
92689424005	**MIT-APA12-FB-1**	Water	09/19/23 10:15	09/21/23 09:07
92689424006	**MIT-PZ-2D**	Water	09/19/23 11:06	09/21/23 09:07
92689424007	**MIT-PZ-32**	Water	09/19/23 13:00	09/21/23 09:07
92689424008	**MIT-PZ-25**	Water	09/19/23 15:28	09/21/23 09:07
92689424009	**MIT-PZ-23A**	Water	09/20/23 10:20	09/21/23 09:07
92689424010	**MIT-PZ-19**	Water	09/20/23 12:36	09/21/23 09:07
92689424011	**MIT-PZ-7D**	Water	09/20/23 14:30	09/21/23 09:07
92689424012	**MIT-APA12-FB-2**	Water	09/20/23 15:05	09/21/23 09:07
92689424013	**MIT-PZ-15**	Water	09/20/23 09:40	09/21/23 09:07
92689424014	**MIT-PZ-14**	Water	09/20/23 11:20	09/21/23 09:07
92689424015	**MIT-PZ-17**	Water	09/20/23 13:25	09/21/23 09:07
92689424016	**MIT-PZ-18**	Water	09/20/23 14:55	09/21/23 09:07
92689424017	**MIT-APA12-EB-2**	Water	09/21/23 09:00	09/22/23 10:28
92689424018	**MIT-PZ-33**	Water	09/21/23 09:15	09/22/23 10:28
92689424019	**MIT-APA12-FD-1**	Water	09/21/23 00:00	09/22/23 10:28
92689424020	**MIT-PZ-57**	Water	09/21/23 10:45	09/22/23 10:28
92689424021	**MIT-APA12-FD-2**	Water	09/21/23 00:00	09/22/23 10:28

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92689424001	**MIT-PZ-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424002	**MIT-PZ-31**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424003	**MIT-PZ-16**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424004	**MIT-APA12-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424005	**MIT-APA12-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424006	**MIT-PZ-2D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424007	**MIT-PZ-32**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424008	**MIT-PZ-25**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424009	**MIT-PZ-23A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424010	**MIT-PZ-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424011	**MIT-PZ-7D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424012	**MIT-APA12-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424013	**MIT-PZ-15**	EPA 9315	SLC	1	PASI-PA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424014	**MIT-PZ-14**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424015	**MIT-PZ-17**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424016	**MIT-PZ-18**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92689424017	**MIT-APA12-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92689424018	**MIT-PZ-33**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92689424019	**MIT-APA12-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92689424020	**MIT-PZ-57**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92689424021	**MIT-APA12-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424001	**MIT-PZ-1D**					
EPA 9315	Radium-226	-0.0665U ± 0.158 (0.428) C:91% T:NA	pCi/L		10/10/23 10:22	
EPA 9320	Radium-228	0.550U ± 0.390 (0.754) C:80% T:84%	pCi/L		10/06/23 11:38	
Total Radium Calculation	Total Radium	0.550U ± 0.548 (1.18)	pCi/L		10/11/23 14:26	
92689424002	**MIT-PZ-31**					
EPA 9315	Radium-226	0.121U ± 0.200 (0.452) C:89% T:NA	pCi/L		10/10/23 10:23	
EPA 9320	Radium-228	0.952 ± 0.465 (0.807) C:74% T:88%	pCi/L		10/06/23 11:38	
Total Radium Calculation	Total Radium	1.07U ± 0.665 (1.26)	pCi/L		10/11/23 14:26	
92689424003	**MIT-PZ-16**					
EPA 9315	Radium-226	-0.0182U ± 0.119 (0.324) C:89% T:NA	pCi/L		10/10/23 10:23	
EPA 9320	Radium-228	0.531U ± 0.378 (0.731) C:77% T:86%	pCi/L		10/06/23 11:39	
Total Radium Calculation	Total Radium	0.531U ± 0.497 (1.06)	pCi/L		10/11/23 14:26	
92689424004	**MIT-APA12-EB-1**					
EPA 9315	Radium-226	0.0360U ± 0.111 (0.273) C:83% T:NA	pCi/L		10/10/23 10:23	
EPA 9320	Radium-228	0.290U ± 0.374 (0.797) C:75% T:89%	pCi/L		10/06/23 11:39	
Total Radium Calculation	Total Radium	0.326U ± 0.485 (1.07)	pCi/L		10/11/23 14:26	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424005	**MIT-APA12-FB-1**					
EPA 9315	Radium-226	0.0704U ± 0.117 (0.261) C:96% T:NA	pCi/L		10/10/23 10:24	
EPA 9320	Radium-228	0.261U ± 0.409 (0.887) C:79% T:84%	pCi/L		10/06/23 11:39	
Total Radium Calculation	Total Radium	0.331U ± 0.526 (1.15)	pCi/L		10/11/23 14:26	
92689424006	**MIT-PZ-2D**					
EPA 9315	Radium-226	0.113U ± 0.119 (0.235) C:88% T:NA	pCi/L		10/10/23 10:24	
EPA 9320	Radium-228	0.656U ± 0.547 (1.11) C:75% T:75%	pCi/L		10/06/23 11:36	
Total Radium Calculation	Total Radium	0.769U ± 0.666 (1.35)	pCi/L		10/11/23 14:26	
92689424007	**MIT-PZ-32**					
EPA 9315	Radium-226	0.116U ± 0.123 (0.245) C:92% T:NA	pCi/L		10/10/23 10:24	
EPA 9320	Radium-228	0.688U ± 0.453 (0.881) C:80% T:89%	pCi/L		10/06/23 11:37	
Total Radium Calculation	Total Radium	0.804U ± 0.576 (1.13)	pCi/L		10/11/23 14:26	
92689424008	**MIT-PZ-25**					
EPA 9315	Radium-226	0.327 ± 0.188 (0.310) C:89% T:NA	pCi/L		10/10/23 10:24	
EPA 9320	Radium-228	0.880U ± 0.534 (1.02) C:73% T:86%	pCi/L		10/06/23 11:37	
Total Radium Calculation	Total Radium	1.21U ± 0.722 (1.33)	pCi/L		10/11/23 14:26	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424009	**MIT-PZ-23A**					
EPA 9315	Radium-226	0.171U ± 0.160 (0.316) C:85% T:NA	pCi/L		10/10/23 10:13	
EPA 9320	Radium-228	0.0635U ± 0.446 (1.02) C:76% T:85%	pCi/L		10/06/23 11:37	
Total Radium Calculation	Total Radium	0.235U ± 0.606 (1.34)	pCi/L		10/11/23 14:26	
92689424010	**MIT-PZ-19**					
EPA 9315	Radium-226	0.161U ± 0.148 (0.288) C:92% T:NA	pCi/L		10/10/23 10:13	
EPA 9320	Radium-228	0.861U ± 0.598 (1.17) C:74% T:78%	pCi/L		10/06/23 14:55	
Total Radium Calculation	Total Radium	1.02U ± 0.746 (1.46)	pCi/L		10/11/23 14:26	
92689424011	**MIT-PZ-7D**					
EPA 9315	Radium-226	0.0819U ± 0.144 (0.326) C:84% T:NA	pCi/L		10/10/23 10:13	
EPA 9320	Radium-228	0.541U ± 0.521 (1.08) C:71% T:86%	pCi/L		10/06/23 14:55	
Total Radium Calculation	Total Radium	0.623U ± 0.665 (1.41)	pCi/L		10/11/23 14:26	
92689424012	**MIT-APA12-FB-2**					
EPA 9315	Radium-226	0.0321U ± 0.137 (0.337) C:93% T:NA	pCi/L		10/10/23 11:48	
EPA 9320	Radium-228	0.574U ± 0.465 (0.937) C:77% T:90%	pCi/L		10/06/23 14:56	
Total Radium Calculation	Total Radium	0.606U ± 0.602 (1.27)	pCi/L		10/11/23 14:26	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424013	**MIT-PZ-15**					
EPA 9315	Radium-226	0.239 ± 0.142 (0.202) C:90% T:NA	pCi/L		10/10/23 10:14	
EPA 9320	Radium-228	0.405U ± 0.439 (0.919) C:79% T:84%	pCi/L		10/06/23 14:56	
Total Radium Calculation	Total Radium	0.644U ± 0.581 (1.12)	pCi/L		10/11/23 14:26	
92689424014	**MIT-PZ-14**					
EPA 9315	Radium-226	0.107U ± 0.102 (0.205) C:100% T:NA	pCi/L		10/10/23 10:16	
EPA 9320	Radium-228	0.600U ± 0.417 (0.807) C:79% T:88%	pCi/L		10/06/23 14:56	
Total Radium Calculation	Total Radium	0.707U ± 0.519 (1.01)	pCi/L		10/11/23 14:26	
92689424015	**MIT-PZ-17**					
EPA 9315	Radium-226	0.236 ± 0.144 (0.212) C:93% T:NA	pCi/L		10/10/23 10:16	
EPA 9320	Radium-228	0.448U ± 0.405 (0.824) C:76% T:88%	pCi/L		10/06/23 14:56	
Total Radium Calculation	Total Radium	0.684U ± 0.549 (1.04)	pCi/L		10/11/23 14:26	
92689424016	**MIT-PZ-18**					
EPA 9315	Radium-226	0.188U ± 0.144 (0.252) C:88% T:NA	pCi/L		10/10/23 10:16	
EPA 9320	Radium-228	0.596U ± 0.425 (0.821) C:74% T:83%	pCi/L		10/06/23 14:56	
Total Radium Calculation	Total Radium	0.784U ± 0.569 (1.07)	pCi/L		10/11/23 14:26	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424017	**MIT-APA12-EB-2**					
EPA 9315	Radium-226	0.121U ± 0.135 (0.274) C:101% T:NA	pCi/L		10/17/23 08:15	
EPA 9320	Radium-228	0.561U ± 0.374 (0.695) C:70% T:79%	pCi/L		10/11/23 12:32	
Total Radium Calculation	Total Radium	0.682U ± 0.509 (0.969)	pCi/L		10/17/23 11:47	
92689424018	**MIT-PZ-33**					
EPA 9315	Radium-226	0.140U ± 0.163 (0.341) C:98% T:NA	pCi/L		10/17/23 08:15	
EPA 9320	Radium-228	0.669U ± 0.392 (0.715) C:77% T:82%	pCi/L		10/11/23 12:32	
Total Radium Calculation	Total Radium	0.809U ± 0.555 (1.06)	pCi/L		10/17/23 11:47	
92689424019	**MIT-APA12-FD-1**					
EPA 9315	Radium-226	0.109U ± 0.126 (0.257) C:98% T:NA	pCi/L		10/17/23 08:15	
EPA 9320	Radium-228	0.356U ± 0.384 (0.800) C:75% T:82%	pCi/L		10/11/23 12:32	
Total Radium Calculation	Total Radium	0.465U ± 0.510 (1.06)	pCi/L		10/17/23 11:47	
92689424020	**MIT-PZ-57**					
EPA 9315	Radium-226	0.343 ± 0.204 (0.335) C:94% T:NA	pCi/L		10/17/23 08:16	
EPA 9320	Radium-228	0.0581U ± 0.303 (0.699) C:77% T:75%	pCi/L		10/11/23 12:32	
Total Radium Calculation	Total Radium	0.401U ± 0.507 (1.03)	pCi/L		10/17/23 11:47	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92689424021	**MIT-APA12-FD-2**					
EPA 9315	Radium-226	0.172U ± 0.157 (0.299) C:95% T:NA	pCi/L		10/17/23 08:19	
EPA 9320	Radium-228	0.433U ± 0.327 (0.630) C:76% T:82%	pCi/L		10/11/23 12:32	
Total Radium Calculation	Total Radium	0.605U ± 0.484 (0.929)	pCi/L		10/17/23 11:47	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-1D **Lab ID: 92689424001** Collected: 09/19/23 11:05 Received: 09/21/23 09:07 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	**-0.0665U ± 0.158 (0.428) C:91% T:NA**	pCi/L	10/10/23 10:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.550U ± 0.390 (0.754) C:80% T:84%**	pCi/L	10/06/23 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.550U ± 0.548 (1.18)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-31 **Lab ID: 92689424002** Collected: 09/19/23 13:25 Received: 09/21/23 09:07 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	**0.121U ± 0.200 (0.452) C:89% T:NA**	pCi/L	10/10/23 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.952 ± 0.465 (0.807) C:74% T:88%**	pCi/L	10/06/23 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07U ± 0.665 (1.26)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-16 **Lab ID: 92689424003** Collected: 09/19/23 15:25 Received: 09/21/23 09:07 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	**-0.0182U ± 0.119 (0.324) C:89% T:NA**	pCi/L	10/10/23 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.531U ± 0.378 (0.731) C:77% T:86%**	pCi/L	10/06/23 11:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.531U ± 0.497 (1.06)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-EB-1 **Lab ID: 92689424004** Collected: 09/20/23 09:00 Received: 09/21/23 09:07 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	**0.0360U ± 0.111 (0.273) C:83% T:NA**	pCi/L	10/10/23 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.290U ± 0.374 (0.797) C:75% T:89%**	pCi/L	10/06/23 11:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.326U ± 0.485 (1.07)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-FB-1 **Lab ID: 92689424005** Collected: 09/19/23 10:15 Received: 09/21/23 09:07 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	**0.0704U ± 0.117 (0.261) C:96% T:NA**	pCi/L	10/10/23 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.261U ± 0.409 (0.887) C:79% T:84%**	pCi/L	10/06/23 11:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.331U ± 0.526 (1.15)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-2D **Lab ID: 92689424006** Collected: 09/19/23 11:06 Received: 09/21/23 09:07 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	**0.113U ± 0.119 (0.235) C:88% T:NA**	pCi/L	10/10/23 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.656U ± 0.547 (1.11) C:75% T:75%**	pCi/L	10/06/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.769U ± 0.666 (1.35)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-32 **Lab ID: 92689424007** Collected: 09/19/23 13:00 Received: 09/21/23 09:07 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	**0.116U ± 0.123 (0.245) C:92% T:NA**	pCi/L	10/10/23 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.688U ± 0.453 (0.881) C:80% T:89%**	pCi/L	10/06/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.804U ± 0.576 (1.13)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-25 **Lab ID: 92689424008** Collected: 09/19/23 15:28 Received: 09/21/23 09:07 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	**0.327 ± 0.188 (0.310) C:89% T:NA**	pCi/L	10/10/23 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.880U ± 0.534 (1.02) C:73% T:86%**	pCi/L	10/06/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.21U ± 0.722 (1.33)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-23A **Lab ID: 92689424009** Collected: 09/20/23 10:20 Received: 09/21/23 09:07 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	**0.171U ± 0.160 (0.316) C:85% T:NA**	pCi/L	10/10/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0635U ± 0.446 (1.02) C:76% T:85%**	pCi/L	10/06/23 11:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.235U ± 0.606 (1.34)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-19 **Lab ID: 92689424010** Collected: 09/20/23 12:36 Received: 09/21/23 09:07 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	**0.161U ± 0.148 (0.288) C:92% T:NA**	pCi/L	10/10/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.861U ± 0.598 (1.17) C:74% T:78%**	pCi/L	10/06/23 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.02U ± 0.746 (1.46)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-7D **Lab ID: 92689424011** Collected: 09/20/23 14:30 Received: 09/21/23 09:07 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	**0.0819U ± 0.144 (0.326) C:84% T:NA**	pCi/L	10/10/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.541U ± 0.521 (1.08) C:71% T:86%**	pCi/L	10/06/23 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.623U ± 0.665 (1.41)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-FB-2 **Lab ID: 92689424012** Collected: 09/20/23 15:05 Received: 09/21/23 09:07 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	**0.0321U ± 0.137 (0.337) C:93% T:NA**	pCi/L	10/10/23 11:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.574U ± 0.465 (0.937) C:77% T:90%**	pCi/L	10/06/23 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.606U ± 0.602 (1.27)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-15 **Lab ID: 92689424013** Collected: 09/20/23 09:40 Received: 09/21/23 09:07 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	**0.239 ± 0.142 (0.202) C:90% T:NA**	pCi/L	10/10/23 10:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.405U ± 0.439 (0.919) C:79% T:84%**	pCi/L	10/06/23 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.644U ± 0.581 (1.12)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-14 **Lab ID: 92689424014** Collected: 09/20/23 11:20 Received: 09/21/23 09:07 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	**0.107U ± 0.102 (0.205) C:100% T:NA**	pCi/L	10/10/23 10:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.600U ± 0.417 (0.807) C:79% T:88%**	pCi/L	10/06/23 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.707U ± 0.519 (1.01)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-17 **Lab ID: 92689424015** Collected: 09/20/23 13:25 Received: 09/21/23 09:07 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	**0.236 ± 0.144 (0.212) C:93% T:NA**	pCi/L	10/10/23 10:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.448U ± 0.405 (0.824) C:76% T:88%**	pCi/L	10/06/23 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.684U ± 0.549 (1.04)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-18 **Lab ID: 92689424016** Collected: 09/20/23 14:55 Received: 09/21/23 09:07 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	**0.188U ± 0.144 (0.252) C:88% T:NA**	pCi/L	10/10/23 10:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.596U ± 0.425 (0.821) C:74% T:83%**	pCi/L	10/06/23 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.784U ± 0.569 (1.07)**	pCi/L	10/11/23 14:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-EB-2 **Lab ID: 92689424017** Collected: 09/21/23 09:00 Received: 09/22/23 10:28 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	**0.121U ± 0.135 (0.274) C:101% T:NA**	pCi/L	10/17/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.561U ± 0.374 (0.695) C:70% T:79%**	pCi/L	10/11/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.682U ± 0.509 (0.969)**	pCi/L	10/17/23 11:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-33 **Lab ID: 92689424018** Collected: 09/21/23 09:15 Received: 09/22/23 10:28 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	**0.140U ± 0.163 (0.341) C:98% T:NA**	pCi/L	10/17/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.669U ± 0.392 (0.715) C:77% T:82%**	pCi/L	10/11/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.809U ± 0.555 (1.06)**	pCi/L	10/17/23 11:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-FD-1 **Lab ID: 92689424019** Collected: 09/21/23 00:00 Received: 09/22/23 10:28 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	**0.109U ± 0.126 (0.257) C:98% T:NA**	pCi/L	10/17/23 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.356U ± 0.384 (0.800) C:75% T:82%**	pCi/L	10/11/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.465U ± 0.510 (1.06)**	pCi/L	10/17/23 11:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-PZ-57 **Lab ID: 92689424020** Collected: 09/21/23 10:45 Received: 09/22/23 10:28 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	**0.343 ± 0.204 (0.335) C:94% T:NA**	pCi/L	10/17/23 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0581U ± 0.303 (0.699) C:77% T:75%**	pCi/L	10/11/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.401U ± 0.507 (1.03)**	pCi/L	10/17/23 11:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Sample: MIT-APA12-FD-2 **Lab ID: 92689424021** Collected: 09/21/23 00:00 Received: 09/22/23 10:28 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	**0.172U ± 0.157 (0.299) C:95% T:NA**	pCi/L	10/17/23 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.433U ± 0.327 (0.630) C:76% T:82%**	pCi/L	10/11/23 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.605U ± 0.484 (0.929)**	pCi/L	10/17/23 11:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

QC Batch: 618566
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92689424001, 92689424002, 92689424003, 92689424004, 92689424005, 92689424006, 92689424007, 92689424008, 92689424009, 92689424010, 92689424011, 92689424012, 92689424013, 92689424014, 92689424015, 92689424016

METHOD BLANK: 3013327
Matrix: Water
Associated Lab Samples: 92689424001, 92689424002, 92689424003, 92689424004, 92689424005, 92689424006, 92689424007, 92689424008, 92689424009, 92689424010, 92689424011, 92689424012, 92689424013, 92689424014, 92689424015, 92689424016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.108 ± 0.173 (0.388) C:96% T:NA	pCi/L	10/10/23 10:22	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

QC Batch: 620741
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92689424017, 92689424018, 92689424019, 92689424020, 92689424021

METHOD BLANK: 3025002 Matrix: Water
Associated Lab Samples: 92689424017, 92689424018, 92689424019, 92689424020, 92689424021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0810 ± 0.138 (0.310) C:95% T:NA	pCi/L	10/17/23 08:14	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

QC Batch: 619686
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92689424017, 92689424018, 92689424019, 92689424020, 92689424021

METHOD BLANK: 3018973 Matrix: Water
Associated Lab Samples: 92689424017, 92689424018, 92689424019, 92689424020, 92689424021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.287 ± 0.357 (0.754) C:75% T:72%	pCi/L	10/11/23 12:32	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

QC Batch: 618700
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92689424001, 92689424002, 92689424003, 92689424004, 92689424005, 92689424006, 92689424007, 92689424008, 92689424009, 92689424010, 92689424011, 92689424012, 92689424013, 92689424014, 92689424015, 92689424016

METHOD BLANK: 3013986
Matrix: Water
Associated Lab Samples: 92689424001, 92689424002, 92689424003, 92689424004, 92689424005, 92689424006, 92689424007, 92689424008, 92689424009, 92689424010, 92689424011, 92689424012, 92689424013, 92689424014, 92689424015, 92689424016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.324 ± 0.359 (0.749) C:73% T:88%	pCi/L	10/06/23 11:38	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689424001	**MIT-PZ-1D**	EPA 9315	618566		
92689424002	**MIT-PZ-31**	EPA 9315	618566		
92689424003	**MIT-PZ-16**	EPA 9315	618566		
92689424004	**MIT-APA12-EB-1**	EPA 9315	618566		
92689424005	**MIT-APA12-FB-1**	EPA 9315	618566		
92689424006	**MIT-PZ-2D**	EPA 9315	618566		
92689424007	**MIT-PZ-32**	EPA 9315	618566		
92689424008	**MIT-PZ-25**	EPA 9315	618566		
92689424009	**MIT-PZ-23A**	EPA 9315	618566		
92689424010	**MIT-PZ-19**	EPA 9315	618566		
92689424011	**MIT-PZ-7D**	EPA 9315	618566		
92689424012	**MIT-APA12-FB-2**	EPA 9315	618566		
92689424013	**MIT-PZ-15**	EPA 9315	618566		
92689424014	**MIT-PZ-14**	EPA 9315	618566		
92689424015	**MIT-PZ-17**	EPA 9315	618566		
92689424016	**MIT-PZ-18**	EPA 9315	618566		
92689424017	**MIT-APA12-EB-2**	EPA 9315	620741		
92689424018	**MIT-PZ-33**	EPA 9315	620741		
92689424019	**MIT-APA12-FD-1**	EPA 9315	620741		
92689424020	**MIT-PZ-57**	EPA 9315	620741		
92689424021	**MIT-APA12-FD-2**	EPA 9315	620741		
92689424001	**MIT-PZ-1D**	EPA 9320	618700		
92689424002	**MIT-PZ-31**	EPA 9320	618700		
92689424003	**MIT-PZ-16**	EPA 9320	618700		
92689424004	**MIT-APA12-EB-1**	EPA 9320	618700		
92689424005	**MIT-APA12-FB-1**	EPA 9320	618700		
92689424006	**MIT-PZ-2D**	EPA 9320	618700		
92689424007	**MIT-PZ-32**	EPA 9320	618700		
92689424008	**MIT-PZ-25**	EPA 9320	618700		
92689424009	**MIT-PZ-23A**	EPA 9320	618700		
92689424010	**MIT-PZ-19**	EPA 9320	618700		
92689424011	**MIT-PZ-7D**	EPA 9320	618700		
92689424012	**MIT-APA12-FB-2**	EPA 9320	618700		
92689424013	**MIT-PZ-15**	EPA 9320	618700		
92689424014	**MIT-PZ-14**	EPA 9320	618700		
92689424015	**MIT-PZ-17**	EPA 9320	618700		
92689424016	**MIT-PZ-18**	EPA 9320	618700		
92689424017	**MIT-APA12-EB-2**	EPA 9320	619686		
92689424018	**MIT-PZ-33**	EPA 9320	619686		
92689424019	**MIT-APA12-FD-1**	EPA 9320	619686		
92689424020	**MIT-PZ-57**	EPA 9320	619686		
92689424021	**MIT-APA12-FD-2**	EPA 9320	619686		
92689424001	**MIT-PZ-1D**	Total Radium Calculation	621682		
92689424002	**MIT-PZ-31**	Total Radium Calculation	621682		
92689424003	**MIT-PZ-16**	Total Radium Calculation	621682		
92689424004	**MIT-APA12-EB-1**	Total Radium Calculation	621682		
92689424005	**MIT-APA12-FB-1**	Total Radium Calculation	621682		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1, AP-2- RAD
Pace Project No.: 92689424

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92689424006	**MIT-PZ-2D**	Total Radium Calculation	621682		
92689424007	**MIT-PZ-32**	Total Radium Calculation	621682		
92689424008	**MIT-PZ-25**	Total Radium Calculation	621682		
92689424009	**MIT-PZ-23A**	Total Radium Calculation	621682		
92689424010	**MIT-PZ-19**	Total Radium Calculation	621682		
92689424011	**MIT-PZ-7D**	Total Radium Calculation	621682		
92689424012	**MIT-APA12-FB-2**	Total Radium Calculation	621682		
92689424013	**MIT-PZ-15**	Total Radium Calculation	621682		
92689424014	**MIT-PZ-14**	Total Radium Calculation	621682		
92689424015	**MIT-PZ-17**	Total Radium Calculation	621682		
92689424016	**MIT-PZ-18**	Total Radium Calculation	621682		
92689424017	**MIT-APA12-EB-2**	Total Radium Calculation	622885		
92689424018	**MIT-PZ-33**	Total Radium Calculation	622885		
92689424019	**MIT-APA12-FD-1**	Total Radium Calculation	622885		
92689424020	**MIT-PZ-57**	Total Radium Calculation	622885		
92689424021	**MIT-APA12-FD-2**	Total Radium Calculation	622885		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92689424

92689424

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

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

Date/Initials Person Examining Contents: 4-21-23

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.6

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

810294624315

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO#: 92689424**

PM: BV **Due Date: 10/13/23**

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	8021	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		—	—			—																			2				
2		—	—			—																			2				
3		—	—			—																			2				
4		—	—			—																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-1D	WG	G			9/19/23	1105		5	X		X						X	X	X	X		001
2	MIT-PZ-3I	WG	G			9/19/23	1325		5	X		X						X	X	X	X		002
3	MIT-PZ-1S	WG	G			9/19/23	1525		5	X		X						X	X	X	X		003
4	MIT-APA12-EB-1	WG	G			9/20/23	0900		5	X		X						X	X	X	X		004
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/20/23	1700		9-21	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO#: 92689424**

PM: BV **Due Date: 10/13/23**

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: 9-21-23 JCC

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: 6.0 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 6.0

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Trk # 7840 7592 0572

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ **Date/Time:** _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92689424**

PM: BV Due Date: 10/13/23

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas Kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13PH	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

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:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-FB-1	WQ	G			9/19/23	1015		5	X		X						X	X	X	X			
2	MIT-PZ-2D	WG	G			9/19/23	1106		5	X		X						X	X	X	X			
3	MIT-PZ-32	WG	G			9/19/23	1300		5	X		X						X	X	X	X			
4	MIT-PZ-25	WG	G			9/19/23	1528		5	X		X						X	X	X	X			
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/20/23	1700		9.21.23	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

Pace Analytical Services

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92689424

PM: BV Due Date: 10/13/23

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: MT 9-21-23

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

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

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 6.0 **Correction Factor:** Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 6.0

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

FED EX TA 7840-2592-0561

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Varig
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/228	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-23A		WG	G			9/20/23	1020		5	X		X						X	X	X	X		009
2	MIT-PZ-19		WG	G			9/20/23	1236		5	X		X						X	X	X	X		010
3	MIT-PZ-7D		WG	G			9/20/23	1430		5	X		X						X	X	X	X		011
4	MIT-APA12-FB-2		WQ	G			9/20/23	1505		5	X		X						X	X	X	X		012
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	9/20/23	1700	[illegible]	9/21/23	0907	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/20/23

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 4-21-23

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.9 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.9

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

#784023420583

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP2N ZN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGGU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		—	—			—																			2				
2		—	—			—																			2				
3		—	—			—																			2				
4		—	—			—																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 10 Day

Section B Required Project Information:
Report To: SCS Contacts
Copy To: Wood/WSP E&I Contacts
Purchase Order No.:
Project Name: Mitchell AP-A, AP-1, AP-2
Project Number:

Section C Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10834

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR
Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-15	WG	G			9/20/23	0940		5	X		X							X	X	X	X		013
2	MIT-PZ-14	WG	G			9/20/23	1120		5	X		X							X	X	X	X		014
3	MIT-PZ-17	WG	G			9/20/23	1325		5	X		X							X	X	X	X		015
4	MIT-PZ-18	WG	G			9/20/23	1455		5	X		X							X	X	X	X		016
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel T Howard / WSP	9/20/23	1700		9-21	0701	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Daniel Howard
SIGNATURE of SAMPLER: Daniel Howard
DATE Signed (MM/DD/YY): 09/20/23

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92689424

PM: BV Due Date: 10/13/23

CLIENT: 92-GP-MIT

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

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

Date/Initials Person Examining Contents: 4-22-23 AB

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 5.8 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.8

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

H 810246243357

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92689424

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

PM: BV Due Date: 10/13/23

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5																								2				
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 10 Day

Section B Required Project Information:

Report To: SCS Contacts
Copy To: Wood/WSP E&I Contacts
Purchase Order No.:
Project Name: Mitchell AP-A, AP-1, AP-2
Project Number:

Section C Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 315/9320(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-EB-1	WQ	G			9/21/23	0900		5	X		X						X	X	X	X		617
2	MIT-PZ-33	WG	G			9/21/23	0915		5	X		X						X	X	X	X		618
3	MIT-APA12-ED-1	WG	G			9/21/23	—		5	X		X						X	X	X	X		619
4	MIT-PZ-57	WG	G			9/21/23	1045		5	X		X						X	X	X	X		620
5	MIT-APA12-ED-2	WG	G			9/21/23	→		5	X		X						X	X	X	X		621
6																							
7																							
8																							
9																							
10																							
11																							
12																							

92689424

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/21/23	1430	[illegible]	9/22	1028	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/21/23

Temp in °C | Received on ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Wood/WSP E&I Contacts
Purchase Order No.:	
Project Name:	Mitchell AP-A, AP-1, AP-2
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-EB-2	WQ	G			9/21/23	0900		5	X		X							X	X	X	X		017
2	MIT-PZ-33	WG	G			9/21/23	0915		5	X		X							X	X	X	X		
3	MIT-APA12-FD-1	WG	G			9/21/23	—		5	X		X							X	X	X	X		
4	MIT-PZ-57	WG	G			9/21/23	1045		5	X		X							X	X	X	X		
5	MIT-APA12-FD-2	WG	G			9/21/23	→		5	X		X							X	X	X	X		
6																								
7																								
8																								
9																								
10																								
11																								
12																								

92689423

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	9/21/23	1430				

SAMPLE CONDITIONS: 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: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 09/21/23

F-ALL-Q-020rev.07, 15-Feb-2007

...accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 10/4/2023
Worklist: 75527
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3013986
MB concentration:	0.324
M/B 2 Sigma CSU:	0.359
MB MDC:	0.749
MB Numerical Performance Indicator:	1.77
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75527	LCSD75527
Count Date:	10/6/2023	10/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.538	39.538
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.834	4.842
Uncertainty (Calculated):	0.237	0.237
Result (pCi/L, g, F):	4.884	5.414
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.080	1.206
Numerical Performance Indicator:	0.09	0.91
Percent Recovery:	101.02%	111.82%
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		
Sample I.D.:	LCS75527	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75527	
Sample Result (pCi/L, g, F):	4.884	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.080	
Sample Duplicate Result (pCi/L, g, F):	5.414	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.206	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.643	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.15%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
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 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:		
(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:

10-9-23 KT

VAL
10/9/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	10/5/2023
Worklist:	75592
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3018973
MB concentration:	0.287
M/B 2 Sigma CSU:	0.357
MB MDC:	0.754
MB Numerical Performance Indicator:	1.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75592	LCSD75592
Count Date:	10/11/2023	10/11/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.474	39.474
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.817
Target Conc. (pCi/L, g, F):	4.816	4.829
Uncertainty (Calculated):	0.236	0.237
Result (pCi/L, g, F):	4.866	4.267
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.091	0.973
Numerical Performance Indicator:	0.09	-1.10
Percent Recovery:	101.05%	88.36%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS75592	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75592	
Sample Result (pCi/L, g, F):	4.866	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.091	
Sample Duplicate Result (pCi/L, g, F):	4.267	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.973	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.803	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.40%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

VAL
10/12/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	10/4/2023
Worklist:	75515
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3013327
MB concentration:	0.108
M/B 2 Sigma CSU:	0.173
MB MDC:	0.388
MB Numerical Performance Indicator:	1.22
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75515	LCSD75515
Count Date:	10/10/2023	10/10/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.502
Target Conc. (pCi/L, g, F):	4.912	4.989
Uncertainty (Calculated):	0.231	0.234
Result (pCi/L, g, F):	5.078	4.504
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.920	0.848
Numerical Performance Indicator:	0.34	-1.08
Percent Recovery:	103.37%	90.28%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS75515	92689424016
Duplicate Sample I.D.	LCSD75515	92689424016DUP
Sample Result (pCi/L, g, F):	5.078	0.188
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.920	0.144
Sample Duplicate Result (pCi/L, g, F):	4.504	0.201
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.848	0.144
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.899	-0.128
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.51%	6.83%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

VAM 10/10/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	10/13/2023
Worklist:	75652
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3025002
MB concentration:	0.081
M/B 2 Sigma CSU:	0.138
MB MDC:	0.310
MB Numerical Performance Indicator:	1.15
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75652	LCSD75652
Count Date:	10/17/2023	10/17/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.030	25.030
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.504
Target Conc. (pCi/L, g, F):	4.919	4.964
Uncertainty (Calculated):	0.231	0.233
Result (pCi/L, g, F):	4.826	4.461
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.903	0.846
Numerical Performance Indicator:	-0.20	-1.12
Percent Recovery:	98.10%	89.88%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment	
Sample I.D.:	LCS75652
Duplicate Sample I.D.	LCSD75652
Sample Result (pCi/L, g, F):	4.826
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.903
Sample Duplicate Result (pCi/L, g, F):	4.461
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.846
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.577
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.75%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

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:		
(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:

CT 10-17-23

LAM 10/17/23

APPENDIX C

LABORATORY ANALYTICAL FEBRUARY 2024

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

March 21, 2024

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 29, 2024 and March 01, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

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

Pace Analytical Services 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
Virginia Certification #: 460204

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715972001	**MIT-PZ-1D**	Water	02/28/24 12:20	02/29/24 09:37
92715972002	**MIT-PZ-31**	Water	02/28/24 14:25	02/29/24 09:37
92715972003	**MIT-PZ-7D**	Water	02/28/24 14:59	02/29/24 09:37
92715972004	**MIT-APA12-FB-01**	Water	02/28/24 09:10	02/29/24 09:37
92715972005	**MIT-PZ-23A**	Water	02/28/24 11:21	02/29/24 09:37
92715972006	**MIT-APA12-FD-02**	Water	02/28/24 00:00	02/29/24 09:37
92715972007	**MIT-PZ-15**	Water	02/28/24 13:26	02/29/24 09:37
92715972008	**MIT-APA12-EB-01**	Water	02/27/24 10:50	02/29/24 09:37
92715972009	**MIT-PZ-2D**	Water	02/27/24 13:02	02/29/24 09:37
92715972010	**MIT-PZ-32**	Water	02/27/24 15:05	02/29/24 09:37
92715972011	**MIT-PZ-25**	Water	02/27/24 16:28	02/29/24 09:37
92715972012	**MIT-APA12-FB-02**	Water	02/29/24 08:35	03/01/24 15:17
92715972013	**MIT-PZ-19**	Water	02/29/24 09:55	03/01/24 15:17
92715972014	**MIT-APA12-FD-01**	Water	02/29/24 00:00	03/01/24 15:17
92715972015	**MIT-APA12-EB-02**	Water	02/29/24 11:25	03/01/24 15:17
92715972016	**MIT-PZ-57**	Water	02/29/24 12:48	03/01/24 15:17
92715972017	**MIT-PZ-17**	Water	02/29/24 14:33	03/01/24 15:17
92715972018	**MIT-PZ-16**	Water	02/29/24 09:25	03/01/24 15:17
92715972019	**MIT-PZ-14**	Water	02/29/24 11:20	03/01/24 15:17
92715972020	**MIT-PZ-18**	Water	02/29/24 14:20	03/01/24 15:17
92715972021	**MIT-PZ-33**	Water	02/29/24 15:55	03/01/24 15:17

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92715972001	**MIT-PZ-1D**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972002	**MIT-PZ-31**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972003	**MIT-PZ-7D**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972004	**MIT-APA12-FB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972005	**MIT-PZ-23A**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972006	**MIT-APA12-FD-02**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972007	**MIT-PZ-15**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972008	**MIT-APA12-EB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972009	**MIT-PZ-2D**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972010	**MIT-PZ-32**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972011	**MIT-PZ-25**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972012	**MIT-APA12-FB-02**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92715972013	**MIT-PZ-19**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972014	**MIT-APA12-FD-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972015	**MIT-APA12-EB-02**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972016	**MIT-PZ-57**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972017	**MIT-PZ-17**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972018	**MIT-PZ-16**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972019	**MIT-PZ-14**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972020	**MIT-PZ-18**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715972021	**MIT-PZ-33**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715972001	**MIT-PZ-1D**					
EPA 6010D	Calcium	55.0	mg/L	1.0	03/05/24 14:54	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	03/07/24 18:26	B
EPA 6020B	Barium	0.017	mg/L	0.0050	03/07/24 18:26	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/07/24 18:26	
EPA 6020B	Cobalt	0.00037J	mg/L	0.0050	03/07/24 18:26	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	03/07/24 18:26	
SM 2540C-2015	Total Dissolved Solids	176	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	03/01/24 01:21	
92715972002	**MIT-PZ-31**					
EPA 6010D	Calcium	99.9	mg/L	1.0	03/05/24 14:57	
EPA 6020B	Antimony	0.0025J	mg/L	0.0030	03/07/24 18:43	B
EPA 6020B	Barium	0.0079	mg/L	0.0050	03/07/24 18:43	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/07/24 18:43	
SM 2540C-2015	Total Dissolved Solids	276	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	03/01/24 00:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	03/01/24 00:52	
EPA 300.0 Rev 2.1 1993	Sulfate	0.54J	mg/L	1.0	03/01/24 00:52	
92715972003	**MIT-PZ-7D**					
EPA 6010D	Calcium	104	mg/L	1.0	03/05/24 14:59	
EPA 6020B	Antimony	0.00089J	mg/L	0.0030	03/07/24 18:47	B
EPA 6020B	Barium	0.0060	mg/L	0.0050	03/07/24 18:47	
EPA 6020B	Boron	0.17	mg/L	0.040	03/07/24 18:47	
EPA 6020B	Chromium	0.0025J	mg/L	0.0050	03/07/24 18:47	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	03/07/24 18:47	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/07/24 18:47	
SM 2540C-2015	Total Dissolved Solids	325	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/01/24 02:35	
EPA 300.0 Rev 2.1 1993	Sulfate	40.3	mg/L	1.0	03/01/24 02:35	
92715972004	**MIT-APA12-FB-01**					
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	03/07/24 18:51	
92715972005	**MIT-PZ-23A**					
EPA 6010D	Calcium	144	mg/L	1.0	03/05/24 15:05	M1
EPA 6020B	Barium	0.036	mg/L	0.0050	03/07/24 18:55	
EPA 6020B	Boron	0.12	mg/L	0.040	03/07/24 18:55	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	03/07/24 18:55	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	03/07/24 18:55	
SM 2540C-2015	Total Dissolved Solids	430	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	03/01/24 03:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	03/01/24 03:05	
EPA 300.0 Rev 2.1 1993	Sulfate	33.5	mg/L	1.0	03/01/24 03:05	
92715972006	**MIT-APA12-FD-02**					
EPA 6010D	Calcium	138	mg/L	1.0	03/05/24 15:28	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/07/24 19:08	
EPA 6020B	Boron	0.11	mg/L	0.040	03/12/24 13:17	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715972006	**MIT-APA12-FD-02**					
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/07/24 19:08	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/07/24 19:08	
SM 2540C-2015	Total Dissolved Solids	425	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	03/01/24 03:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	03/01/24 03:20	
EPA 300.0 Rev 2.1 1993	Sulfate	33.6	mg/L	1.0	03/01/24 03:20	
92715972007	**MIT-PZ-15**					
EPA 6010D	Calcium	95.4	mg/L	1.0	03/05/24 15:31	
EPA 6020B	Barium	0.058	mg/L	0.0050	03/07/24 19:12	
EPA 6020B	Boron	0.20	mg/L	0.040	03/12/24 13:57	
SM 2540C-2015	Total Dissolved Solids	342	mg/L	25.0	03/04/24 11:38	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	03/01/24 03:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	03/01/24 03:35	
EPA 300.0 Rev 2.1 1993	Sulfate	77.4	mg/L	1.0	03/01/24 03:35	
92715972008	**MIT-APA12-EB-01**					
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	03/07/24 19:16	
92715972009	**MIT-PZ-2D**					
EPA 6010D	Calcium	19.2	mg/L	1.0	03/05/24 15:36	
EPA 6020B	Antimony	0.00073J	mg/L	0.0030	03/07/24 19:20	B
EPA 6020B	Barium	0.0035J	mg/L	0.0050	03/07/24 19:20	
EPA 6020B	Chromium	0.0090	mg/L	0.0050	03/07/24 19:20	
EPA 6020B	Molybdenum	0.00069J	mg/L	0.010	03/07/24 19:20	
SM 2540C-2015	Total Dissolved Solids	75.0	mg/L	25.0	03/03/24 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/01/24 03:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	03/01/24 03:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/01/24 03:49	
92715972010	**MIT-PZ-32**					
EPA 6010D	Calcium	67.5	mg/L	1.0	03/05/24 15:38	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/07/24 19:24	
SM 2540C-2015	Total Dissolved Solids	192	mg/L	25.0	03/03/24 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/01/24 04:04	
EPA 300.0 Rev 2.1 1993	Sulfate	1.4	mg/L	1.0	03/01/24 04:04	
92715972011	**MIT-PZ-25**					
EPA 6010D	Calcium	94.6	mg/L	1.0	03/05/24 15:41	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/07/24 19:28	
EPA 6020B	Boron	0.17	mg/L	0.040	03/12/24 14:11	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/07/24 19:28	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	03/07/24 19:28	
EPA 6020B	Thallium	0.00065J	mg/L	0.0010	03/07/24 19:28	
SM 2540C-2015	Total Dissolved Solids	287	mg/L	25.0	03/03/24 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/01/24 04:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/01/24 04:19	
EPA 300.0 Rev 2.1 1993	Sulfate	34.0	mg/L	1.0	03/01/24 04:19	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715972012	**MIT-APA12-FB-02**					
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	03/12/24 15:10	
92715972013	**MIT-PZ-19**					
EPA 6010D	Calcium	146	mg/L	1.0	03/05/24 19:48	
EPA 6020B	Barium	0.051	mg/L	0.0050	03/12/24 15:14	
EPA 6020B	Boron	0.43	mg/L	0.040	03/12/24 15:14	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/12/24 15:14	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	03/12/24 15:14	
EPA 6020B	Selenium	0.0043J	mg/L	0.0050	03/12/24 15:14	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	03/12/24 15:14	
SM 2540C-2015	Total Dissolved Solids	470	mg/L	25.0	03/05/24 10:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/05/24 01:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	03/05/24 01:24	
EPA 300.0 Rev 2.1 1993	Sulfate	71.5	mg/L	1.0	03/05/24 01:24	M1
92715972014	**MIT-APA12-FD-01**					
EPA 6010D	Calcium	146	mg/L	1.0	03/05/24 19:50	
EPA 6020B	Barium	0.050	mg/L	0.0050	03/12/24 15:18	
EPA 6020B	Boron	0.43	mg/L	0.040	03/12/24 15:18	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/12/24 15:18	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	03/12/24 15:18	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	03/12/24 15:18	
EPA 6020B	Thallium	0.00047J	mg/L	0.0010	03/12/24 15:18	
SM 2540C-2015	Total Dissolved Solids	477	mg/L	25.0	03/05/24 10:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/05/24 02:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	03/05/24 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	71.6	mg/L	1.0	03/05/24 02:08	
92715972015	**MIT-APA12-EB-02**					
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	03/12/24 15:59	
92715972016	**MIT-PZ-57**					
EPA 6010D	Calcium	101	mg/L	1.0	03/05/24 19:56	
EPA 6020B	Barium	0.052	mg/L	0.0050	03/12/24 16:03	
EPA 6020B	Boron	0.17	mg/L	0.040	03/13/24 13:05	
EPA 6020B	Chromium	0.0032J	mg/L	0.0050	03/12/24 16:03	
SM 2540C-2015	Total Dissolved Solids	334	mg/L	25.0	03/07/24 11:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L	1.0	03/05/24 02:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	03/05/24 02:23	
EPA 300.0 Rev 2.1 1993	Sulfate	65.1	mg/L	1.0	03/05/24 02:23	
92715972017	**MIT-PZ-17**					
EPA 6010D	Calcium	87.8	mg/L	1.0	03/05/24 19:59	
EPA 6020B	Antimony	0.00076J	mg/L	0.0030	03/12/24 16:18	
EPA 6020B	Barium	0.052	mg/L	0.0050	03/12/24 16:18	
EPA 6020B	Boron	0.13	mg/L	0.040	03/13/24 13:18	
SM 2540C-2015	Total Dissolved Solids	277	mg/L	25.0	03/05/24 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	03/05/24 02:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	03/05/24 02:38	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715972017	**MIT-PZ-17**					
EPA 300.0 Rev 2.1 1993	Sulfate	45.4	mg/L	1.0	03/05/24 02:38	
92715972018	**MIT-PZ-16**					
EPA 6010D	Calcium	89.9	mg/L	1.0	03/05/24 20:06	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/12/24 16:22	
EPA 6020B	Boron	0.18	mg/L	0.040	03/13/24 13:22	
SM 2540C-2015	Total Dissolved Solids	292	mg/L	25.0	03/05/24 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	03/05/24 02:52	
EPA 300.0 Rev 2.1 1993	Sulfate	37.9	mg/L	1.0	03/05/24 02:52	
92715972019	**MIT-PZ-14**					
EPA 6010D	Calcium	103	mg/L	1.0	03/05/24 20:09	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/12/24 16:25	
EPA 6020B	Boron	0.030J	mg/L	0.040	03/13/24 13:26	
SM 2540C-2015	Total Dissolved Solids	308	mg/L	25.0	03/05/24 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/05/24 03:56	
EPA 300.0 Rev 2.1 1993	Sulfate	13.3	mg/L	1.0	03/05/24 03:56	
92715972020	**MIT-PZ-18**					
EPA 6010D	Calcium	152	mg/L	1.0	03/05/24 20:12	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/12/24 16:29	
EPA 6020B	Boron	0.35	mg/L	0.040	03/13/24 13:30	
EPA 6020B	Lithium	0.0054J	mg/L	0.030	03/12/24 16:29	
SM 2540C-2015	Total Dissolved Solids	473	mg/L	25.0	03/05/24 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/05/24 04:11	
EPA 300.0 Rev 2.1 1993	Sulfate	92.7	mg/L	1.0	03/05/24 04:11	
92715972021	**MIT-PZ-33**					
EPA 6010D	Calcium	100	mg/L	1.0	03/05/24 20:15	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/12/24 16:33	
EPA 6020B	Boron	0.32	mg/L	0.040	03/13/24 13:35	
SM 2540C-2015	Total Dissolved Solids	314	mg/L	25.0	03/05/24 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/05/24 04:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	03/05/24 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	32.2	mg/L	1.0	03/05/24 04:26	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-1D **Lab ID: 92715972001** Collected: 02/28/24 12:20 Received: 02/29/24 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								
Calcium	**55.0**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 14:54	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	0.00054	1	03/02/24 05:32	03/07/24 18:26	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 12:51	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 18:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/07/24 18:26	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.012	1	03/02/24 05:32	03/07/24 18:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 18:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 18:26	7440-47-3	
Cobalt	**0.00037J**	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 18:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 18:26	7439-93-2	
Molybdenum	**0.00083J**	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 18:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 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	0.00020	0.00013	1	03/14/24 18:10	03/15/24 08:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**176**	mg/L	25.0	25.0	1		03/04/24 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		03/01/24 01:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/24 01:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/24 01:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-31 **Lab ID: 92715972002** Collected: 02/28/24 14:25 Received: 02/29/24 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								
Calcium	**99.9**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 14:57	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	0.00054	1	03/02/24 05:32	03/07/24 18:43	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:02	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 18:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/07/24 18:43	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.012	1	03/02/24 05:32	03/07/24 18:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 18:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 18:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 18:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 18:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 18:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 18:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 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	0.00020	0.00013	1	03/14/24 18:10	03/15/24 08:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**276**	mg/L	25.0	25.0	1		03/04/24 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		03/01/24 00:52	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		03/01/24 00:52	16984-48-8	
Sulfate	**0.54J**	mg/L	1.0	0.50	1		03/01/24 00:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-7D **Lab ID: 92715972003** Collected: 02/28/24 14:59 Received: 02/29/24 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								
Calcium	**104**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 14:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00089J**	mg/L	0.0030	0.00054	1	03/02/24 05:32	03/07/24 18:47	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:06	7440-38-2	
Barium	**0.0060**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/07/24 18:47	7440-41-7	
Boron	**0.17**	mg/L	0.040	0.012	1	03/02/24 05:32	03/07/24 18:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 18:47	7440-43-9	
Chromium	**0.0025J**	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 18:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 18:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 18:47	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 18:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 18:47	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 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	0.00020	0.00013	1	03/14/24 18:10	03/15/24 08:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**325**	mg/L	25.0	25.0	1		03/04/24 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		03/01/24 02:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/24 02:35	16984-48-8	
Sulfate	**40.3**	mg/L	1.0	0.50	1		03/01/24 02:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-FB-01 **Lab ID: 92715972004** Collected: 02/28/24 09:10 Received: 02/29/24 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								
Calcium	ND	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:02	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	0.00054	1	03/02/24 05:32	03/07/24 18:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 18:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/07/24 18:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 05:32	03/07/24 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 18:51	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 18:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/14/24 18:10	03/15/24 09:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/24 11:38		
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		03/01/24 02:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/24 02:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/24 02:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-23A **Lab ID: 92715972005** Collected: 02/28/24 11:21 Received: 02/29/24 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								
Calcium	**144**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:05	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	0.00054	1	03/02/24 05:32	03/07/24 18:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:13	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 18:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/07/24 18:55	7440-41-7	
Boron	**0.12**	mg/L	0.040	0.012	1	03/02/24 05:32	03/07/24 18:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 18:55	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 18:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 18:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 18:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 18:55	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 18:55	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	0.00013	1	03/14/24 18:10	03/15/24 09:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**430**	mg/L	25.0	25.0	1		03/04/24 11:38		
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		03/01/24 03:05	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		03/01/24 03:05	16984-48-8	
Sulfate	**33.5**	mg/L	1.0	0.50	1		03/01/24 03:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-FD-02 **Lab ID: 92715972006** Collected: 02/28/24 00:00 Received: 02/29/24 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								
Calcium	**138**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:28	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	0.00054	1	03/02/24 05:32	03/07/24 19:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:17	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 13:17	7440-41-7	
Boron	**0.11**	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 13:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:08	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:08	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 19:08	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	0.00013	1	03/14/24 18:10	03/15/24 09:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**425**	mg/L	25.0	25.0	1		03/04/24 11:38		
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		03/01/24 03:20	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		03/01/24 03:20	16984-48-8	
Sulfate	**33.6**	mg/L	1.0	0.50	1		03/01/24 03:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-15 **Lab ID: 92715972007** Collected: 02/28/24 13:26 Received: 02/29/24 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								
Calcium	**95.4**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:31	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	0.00054	1	03/02/24 05:32	03/07/24 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 13:57	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 13:57	7440-41-7	
Boron	**0.20**	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 13:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 19:12	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	0.00013	1	03/14/24 18:10	03/15/24 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**342**	mg/L	25.0	25.0	1		03/04/24 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		03/01/24 03:35	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		03/01/24 03:35	16984-48-8	
Sulfate	**77.4**	mg/L	1.0	0.50	1		03/01/24 03:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-EB-01 **Lab ID: 92715972008** Collected: 02/27/24 10:50 Received: 02/29/24 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								
Calcium	ND	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:33	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	0.00054	1	03/02/24 05:32	03/07/24 19:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 14:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 14:00	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 14:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:16	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 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	0.00020	0.00013	1	03/14/24 18:10	03/15/24 09:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/03/24 12:43		
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		03/01/24 01:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/24 01:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/24 01:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-2D **Lab ID: 92715972009** Collected: 02/27/24 13:02 Received: 02/29/24 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								
Calcium	**19.2**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00073J**	mg/L	0.0030	0.00054	1	03/02/24 05:32	03/07/24 19:20	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 14:04	7440-38-2	
Barium	**0.0035J**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 14:04	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 14:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:20	7440-43-9	
Chromium	**0.0090**	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:20	7439-93-2	
Molybdenum	**0.00069J**	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 19:20	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	0.00013	1	03/14/24 18:10	03/15/24 09:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**75.0**	mg/L	25.0	25.0	1		03/03/24 12:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		03/01/24 03:49	16887-00-6	
Fluoride	**0.084J**	mg/L	0.10	0.050	1		03/01/24 03:49	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		03/01/24 03:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-32 **Lab ID: 92715972010** Collected: 02/27/24 15:05 Received: 02/29/24 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								
Calcium	**67.5**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:38	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	0.00054	1	03/02/24 05:32	03/07/24 19:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 14:08	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 14:08	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 14:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 19:24	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	0.00013	1	03/14/24 18:10	03/15/24 09:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**192**	mg/L	25.0	25.0	1		03/03/24 12:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		03/01/24 04:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/24 04:04	16984-48-8	
Sulfate	**1.4**	mg/L	1.0	0.50	1		03/01/24 04:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-25 **Lab ID: 92715972011** Collected: 02/27/24 16:28 Received: 02/29/24 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								
Calcium	**94.6**	mg/L	1.0	0.12	1	03/01/24 17:38	03/05/24 15:41	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	0.00054	1	03/02/24 05:32	03/07/24 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 05:32	03/12/24 14:11	7440-38-2	
Barium	**0.13**	mg/L	0.0050	0.00047	1	03/02/24 05:32	03/07/24 19:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 05:32	03/12/24 14:11	7440-41-7	
Boron	**0.17**	mg/L	0.040	0.012	1	03/02/24 05:32	03/12/24 14:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 05:32	03/07/24 19:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 05:32	03/07/24 19:28	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00032	1	03/02/24 05:32	03/07/24 19:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 05:32	03/07/24 19:28	7439-92-1	
Lithium	**0.0070J**	mg/L	0.030	0.0016	1	03/02/24 05:32	03/07/24 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 05:32	03/07/24 19:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 05:32	03/07/24 19:28	7782-49-2	
Thallium	**0.00065J**	mg/L	0.0010	0.00038	1	03/02/24 05:32	03/07/24 19:28	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	0.00013	1	03/14/24 18:10	03/15/24 09:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**287**	mg/L	25.0	25.0	1		03/03/24 12:44		
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		03/01/24 04:19	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		03/01/24 04:19	16984-48-8	
Sulfate	**34.0**	mg/L	1.0	0.50	1		03/01/24 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-FB-02 **Lab ID: 92715972012** Collected: 02/29/24 08:35 Received: 03/01/24 15:17 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	0.12	1	03/01/24 18:34	03/05/24 19:45	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	0.00054	1	03/02/24 06:47	03/12/24 15:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 15:10	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 15:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 15:10	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 06:47	03/12/24 15:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 15:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 15:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 15:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 15:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 15:10	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 15:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 15:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 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	0.00013	1	03/14/24 18:10	03/15/24 09:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/05/24 10:52		
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		03/02/24 13:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/02/24 13:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/02/24 13:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-19 **Lab ID: 92715972013** Collected: 02/29/24 09:55 Received: 03/01/24 15:17 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	**146**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 19:48	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	0.00054	1	03/02/24 06:47	03/12/24 15:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 15:14	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 15:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 15:14	7440-41-7	
Boron	**0.43**	mg/L	0.040	0.012	1	03/02/24 06:47	03/12/24 15:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 15:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 15:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 15:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 15:14	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 15:14	7439-93-2	
Molybdenum	**0.0018J**	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 15:14	7439-98-7	
Selenium	**0.0043J**	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 15:14	7782-49-2	
Thallium	**0.00050J**	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 15:14	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	0.00013	1	03/14/24 18:10	03/15/24 09:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**470**	mg/L	25.0	25.0	1		03/05/24 10:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		03/05/24 01:24	16887-00-6	
Fluoride	**0.078J**	mg/L	0.10	0.050	1		03/05/24 01:24	16984-48-8	
Sulfate	**71.5**	mg/L	1.0	0.50	1		03/05/24 01:24	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-FD-01 **Lab ID: 92715972014** Collected: 02/29/24 00:00 Received: 03/01/24 15:17 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	**146**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 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	0.00054	1	03/02/24 06:47	03/12/24 15:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 15:18	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 15:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 15:18	7440-41-7	
Boron	**0.43**	mg/L	0.040	0.012	1	03/02/24 06:47	03/12/24 15:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 15:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 15:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 15:18	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 15:18	7439-93-2	
Molybdenum	**0.0020J**	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 15:18	7439-98-7	
Selenium	**0.0040J**	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 15:18	7782-49-2	
Thallium	**0.00047J**	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 15:18	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	0.00013	1	03/14/24 18:10	03/15/24 09:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**477**	mg/L	25.0	25.0	1		03/05/24 10:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		03/05/24 02:08	16887-00-6	
Fluoride	**0.080J**	mg/L	0.10	0.050	1		03/05/24 02:08	16984-48-8	
Sulfate	**71.6**	mg/L	1.0	0.50	1		03/05/24 02:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-APA12-EB-02 **Lab ID: 92715972015** Collected: 02/29/24 11:25 Received: 03/01/24 15:17 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	0.12	1	03/01/24 18:34	03/05/24 19:53	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	0.00054	1	03/02/24 06:47	03/12/24 15:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 15:59	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 15:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 15:59	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 15:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 15:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 15:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 15:59	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 15:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 15:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 15:59	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	0.00013	1	03/14/24 18:10	03/15/24 09:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/07/24 11:40		
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		03/04/24 19:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/04/24 19:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/04/24 19:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-57 **Lab ID: 92715972016** Collected: 02/29/24 12:48 Received: 03/01/24 15:17 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	**101**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 19:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	03/02/24 06:47	03/12/24 16:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:03	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:03	7440-41-7	
Boron	**0.17**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:03	7440-43-9	
Chromium	**0.0032J**	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 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	0.00013	1	03/14/24 18:10	03/15/24 09:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**334**	mg/L	25.0	25.0	1		03/07/24 11:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.9**	mg/L	1.0	0.60	1		03/05/24 02:23	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		03/05/24 02:23	16984-48-8	
Sulfate	**65.1**	mg/L	1.0	0.50	1		03/05/24 02:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-17 **Lab ID: 92715972017** Collected: 02/29/24 14:33 Received: 03/01/24 15:17 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	**87.8**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 19:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00076J**	mg/L	0.0030	0.00054	1	03/02/24 06:47	03/12/24 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:18	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:18	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 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	0.00013	1	03/14/24 18:10	03/15/24 09:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**277**	mg/L	25.0	25.0	1		03/05/24 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		03/05/24 02:38	16887-00-6	
Fluoride	**0.068J**	mg/L	0.10	0.050	1		03/05/24 02:38	16984-48-8	
Sulfate	**45.4**	mg/L	1.0	0.50	1		03/05/24 02:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-16 **Lab ID: 92715972018** Collected: 02/29/24 09:25 Received: 03/01/24 15:17 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	**89.9**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 20:06	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	0.00054	1	03/02/24 06:47	03/12/24 16:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:22	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:22	7440-41-7	
Boron	**0.18**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 16:22	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	0.00013	1	03/14/24 18:10	03/15/24 09:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**292**	mg/L	25.0	25.0	1		03/05/24 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		03/05/24 02:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/24 02:52	16984-48-8	
Sulfate	**37.9**	mg/L	1.0	0.50	1		03/05/24 02:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-14 **Lab ID: 92715972019** Collected: 02/29/24 11:20 Received: 03/01/24 15:17 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	**103**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 20:09	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	0.00054	1	03/02/24 06:47	03/12/24 16:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:25	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:25	7440-41-7	
Boron	**0.030J**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 16:25	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	0.00013	1	03/14/24 18:10	03/15/24 09:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**308**	mg/L	25.0	25.0	1		03/05/24 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		03/05/24 03:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/24 03:56	16984-48-8	
Sulfate	**13.3**	mg/L	1.0	0.50	1		03/05/24 03:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-18 **Lab ID: 92715972020** Collected: 02/29/24 14:20 Received: 03/01/24 15:17 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	**152**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 20:12	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	0.00054	1	03/02/24 06:47	03/12/24 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:29	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:29	7440-41-7	
Boron	**0.35**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:29	7439-92-1	
Lithium	**0.0054J**	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 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	0.00013	1	03/14/24 18:10	03/15/24 09:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**473**	mg/L	25.0	25.0	1		03/05/24 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		03/05/24 04:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/05/24 04:11	16984-48-8	
Sulfate	**92.7**	mg/L	1.0	0.50	1		03/05/24 04:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Sample: MIT-PZ-33 **Lab ID: 92715972021** Collected: 02/29/24 15:55 Received: 03/01/24 15:17 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	**100**	mg/L	1.0	0.12	1	03/01/24 18:34	03/05/24 20:15	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	0.00054	1	03/02/24 06:47	03/12/24 16:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	03/02/24 06:47	03/12/24 16:33	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00047	1	03/02/24 06:47	03/12/24 16:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	03/02/24 06:47	03/12/24 16:33	7440-41-7	
Boron	**0.32**	mg/L	0.040	0.012	1	03/02/24 06:47	03/13/24 13:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	03/02/24 06:47	03/12/24 16:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	03/02/24 06:47	03/12/24 16:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	03/02/24 06:47	03/12/24 16:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	03/02/24 06:47	03/12/24 16:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	03/02/24 06:47	03/12/24 16:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	03/02/24 06:47	03/12/24 16:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	03/02/24 06:47	03/12/24 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	03/02/24 06:47	03/12/24 16:33	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	0.00013	1	03/15/24 08:00	03/15/24 13:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**314**	mg/L	25.0	25.0	1		03/05/24 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		03/05/24 04:26	16887-00-6	
Fluoride	**0.068J**	mg/L	0.10	0.050	1		03/05/24 04:26	16984-48-8	
Sulfate	**32.2**	mg/L	1.0	0.50	1		03/05/24 04:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836229
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

METHOD BLANK: 4319841 Matrix: Water
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/05/24 14:44	

LABORATORY CONTROL SAMPLE: 4319842

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: 4319843 4319844

Parameter	Units	92715972005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	144	1	1	139	144	-508	-23	75-125	3	20	M1

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836274
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

METHOD BLANK: 4320291 Matrix: Water
Associated Lab Samples: 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/05/24 19:09	

LABORATORY CONTROL SAMPLE: 4320292

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: 4320293 4320294

Parameter	Units	92715157028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	25.6	1	1	27.9	26.7	232	110	75-125	4	20	M1

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836225
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

METHOD BLANK: 4319833 Matrix: Water
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00055J	0.0030	0.00054	03/07/24 18:18	
Arsenic	mg/L	ND	0.0050	0.00084	03/12/24 12:43	
Barium	mg/L	ND	0.0050	0.00047	03/07/24 18:18	
Beryllium	mg/L	ND	0.00050	0.000094	03/07/24 18:18	
Boron	mg/L	ND	0.040	0.012	03/07/24 18:18	
Cadmium	mg/L	ND	0.00050	0.00010	03/07/24 18:18	
Chromium	mg/L	ND	0.0050	0.0019	03/07/24 18:18	
Cobalt	mg/L	ND	0.0050	0.00032	03/07/24 18:18	
Lead	mg/L	ND	0.0010	0.00016	03/07/24 18:18	
Lithium	mg/L	ND	0.030	0.0016	03/07/24 18:18	
Molybdenum	mg/L	ND	0.010	0.00062	03/07/24 18:18	
Selenium	mg/L	ND	0.0050	0.00096	03/07/24 18:18	
Thallium	mg/L	ND	0.0010	0.00038	03/07/24 18:18	

LABORATORY CONTROL SAMPLE: 4319834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4319835 4319836

Parameter	Units	92715972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00059J	0.1	0.1	0.11	0.11	105	105	75-125	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4319835 4319836

Parameter	Units	92715972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	106	106	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Boron	mg/L	0.016J	1	1	0.93	0.91	92	90	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.098	93	98	75-125	5	20	
Cobalt	mg/L	0.00037J	0.1	0.1	0.094	0.097	93	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	0	20	
Lithium	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Molybdenum	mg/L	0.00083J	0.1	0.1	0.10	0.10	99	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836340
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

METHOD BLANK: 4320449 Matrix: Water
Associated Lab Samples: 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/12/24 14:44	
Arsenic	mg/L	ND	0.0050	0.00084	03/12/24 14:44	
Barium	mg/L	ND	0.0050	0.00047	03/12/24 14:44	
Beryllium	mg/L	ND	0.00050	0.000094	03/12/24 14:44	
Boron	mg/L	ND	0.040	0.012	03/12/24 14:44	
Cadmium	mg/L	ND	0.00050	0.00010	03/12/24 14:44	
Chromium	mg/L	ND	0.0050	0.0019	03/12/24 14:44	
Cobalt	mg/L	ND	0.0050	0.00032	03/12/24 14:44	
Lead	mg/L	ND	0.0010	0.00016	03/12/24 14:44	
Lithium	mg/L	ND	0.030	0.0016	03/12/24 14:44	
Molybdenum	mg/L	ND	0.010	0.00062	03/12/24 14:44	
Selenium	mg/L	ND	0.0050	0.00096	03/12/24 14:44	
Thallium	mg/L	ND	0.0010	0.00038	03/12/24 14:44	

LABORATORY CONTROL SAMPLE: 4320450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	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	0.098	98	80-120	
Boron	mg/L	1	0.88	88	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320451 4320452

Parameter	Units	92715972016 Result	MS Spike Conc.	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	0.10	0.11	104	105	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320451 4320452

Parameter	Units	92715972016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Barium	mg/L	0.052	0.1	0.1	0.16	0.16	112	112	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Boron	mg/L	0.17	1	1	1.1	1.1	93	93	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	
Chromium	mg/L	0.0032J	0.1	0.1	0.097	0.099	94	96	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.096	95	96	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 839128
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011, 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020

METHOD BLANK: 4334515 Matrix: Water
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011, 92715972012, 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/15/24 08:41	

LABORATORY CONTROL SAMPLE: 4334516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4334517 4334518

Parameter	Units	92715972001 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	0.0022	94	86	75-125	8	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 839231
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715972021

METHOD BLANK: 4335088 Matrix: Water
Associated Lab Samples: 92715972021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/15/24 12:56	

LABORATORY CONTROL SAMPLE: 4335089

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: 4335090 4335091

Parameter	Units	92715972021 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	100	97	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836429 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972008, 92715972009, 92715972010, 92715972011

METHOD BLANK: 4320659 Matrix: Water
Associated Lab Samples: 92715972008, 92715972009, 92715972010, 92715972011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/03/24 12:43	

LABORATORY CONTROL SAMPLE: 4320660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4320661

Parameter	Units	92716009008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	103	106	3	25	

SAMPLE DUPLICATE: 4320662

Parameter	Units	92716009005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	221	222	0	25	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836472 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007

METHOD BLANK: 4320734 Matrix: Water
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/24 11:37	

LABORATORY CONTROL SAMPLE: 4320735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4320736

Parameter	Units	92715157021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	67.0	60.0	11	25	

SAMPLE DUPLICATE: 4320737

Parameter	Units	92715972004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836701
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972012, 92715972013, 92715972014

METHOD BLANK: 4321652 Matrix: Water
Associated Lab Samples: 92715972012, 92715972013, 92715972014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/24 10:50	

LABORATORY CONTROL SAMPLE: 4321653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4321654

Parameter	Units	92716009017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	153	145	5	25	

SAMPLE DUPLICATE: 4321655

Parameter	Units	92716305006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	105	5	25	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836834 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

METHOD BLANK: 4322451 Matrix: Water
Associated Lab Samples: 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/24 16:02	

LABORATORY CONTROL SAMPLE: 4322452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 4322453

Parameter	Units	92715972017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	277	280	1	25	

SAMPLE DUPLICATE: 4322454

Parameter	Units	92716674003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	115	113	2	25	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 837177
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972015, 92715972016

METHOD BLANK: 4324573 Matrix: Water
Associated Lab Samples: 92715972015, 92715972016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/07/24 11:40	

LABORATORY CONTROL SAMPLE: 4324574

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

SAMPLE DUPLICATE: 4324575

Parameter	Units	92715972015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 4324576

Parameter	Units	92716860002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	106	108	2	25	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 835934
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

METHOD BLANK: 4318691 Matrix: Water
Associated Lab Samples: 92715972001, 92715972002, 92715972003, 92715972004, 92715972005, 92715972006, 92715972007, 92715972008, 92715972009, 92715972010, 92715972011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/29/24 20:58	
Fluoride	mg/L	ND	0.10	0.050	02/29/24 20:58	
Sulfate	mg/L	ND	1.0	0.50	02/29/24 20:58	

LABORATORY CONTROL SAMPLE: 4318692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318693 4318694

Parameter	Units	92715972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	53.7	55.0	102	104	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	3	10	
Sulfate	mg/L	ND	50	50	51.0	52.4	101	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318695 4318696

Parameter	Units	92715972011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	52.5	53.9	102	105	90-110	3	10	
Fluoride	mg/L	0.13	2.5	2.5	2.5	2.6	94	97	90-110	3	10	
Sulfate	mg/L	34.0	50	50	85.1	86.5	102	105	90-110	2	10	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836354
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92715972012

METHOD BLANK: 4320496 Matrix: Water
Associated Lab Samples: 92715972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/03/24 18:23	
Fluoride	mg/L	ND	0.10	0.050	03/03/24 18:23	
Sulfate	mg/L	ND	1.0	0.50	03/03/24 18:23	

LABORATORY CONTROL SAMPLE: 4320497

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	2.5	100	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320498 4320499

Parameter	Units	92716305007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.8	50	50	56.2	57.8	103	106	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	3	10	
Sulfate	mg/L	2.2	50	50	53.7	55.3	103	106	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320500 4320501

Parameter	Units	92715157022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.0	50	50	54.0	55.0	102	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	96	90-110	2	10	
Sulfate	mg/L	20.2	50	50	71.3	72.2	102	104	90-110	1	10	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

QC Batch: 836604
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

METHOD BLANK: 4321306 Matrix: Water
Associated Lab Samples: 92715972013, 92715972014, 92715972015, 92715972016, 92715972017, 92715972018, 92715972019, 92715972020, 92715972021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/04/24 19:02	
Fluoride	mg/L	ND	0.10	0.050	03/04/24 19:02	
Sulfate	mg/L	ND	1.0	0.50	03/04/24 19:02	

LABORATORY CONTROL SAMPLE: 4321307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4321308 4321309

Parameter	Units	92716389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.7	50	50	61.4	61.7	103	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	101	90-110	3	10	
Sulfate	mg/L	19.4	50	50	71.3	71.9	104	105	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4321311 4322020

Parameter	Units	92715972013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	50	50	55.8	54.7	105	103	90-110	2	10	
Fluoride	mg/L	0.078J	2.5	2.5	2.5	2.4	96	93	90-110	2	10	
Sulfate	mg/L	71.5	50	50	111	109	79	75	90-110	2	10	M1

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715972001	**MIT-PZ-1D**	EPA 3010A	836229	EPA 6010D	836301
92715972002	**MIT-PZ-31**	EPA 3010A	836229	EPA 6010D	836301
92715972003	**MIT-PZ-7D**	EPA 3010A	836229	EPA 6010D	836301
92715972004	**MIT-APA12-FB-01**	EPA 3010A	836229	EPA 6010D	836301
92715972005	**MIT-PZ-23A**	EPA 3010A	836229	EPA 6010D	836301
92715972006	**MIT-APA12-FD-02**	EPA 3010A	836229	EPA 6010D	836301
92715972007	**MIT-PZ-15**	EPA 3010A	836229	EPA 6010D	836301
92715972008	**MIT-APA12-EB-01**	EPA 3010A	836229	EPA 6010D	836301
92715972009	**MIT-PZ-2D**	EPA 3010A	836229	EPA 6010D	836301
92715972010	**MIT-PZ-32**	EPA 3010A	836229	EPA 6010D	836301
92715972011	**MIT-PZ-25**	EPA 3010A	836229	EPA 6010D	836301
92715972012	**MIT-APA12-FB-02**	EPA 3010A	836274	EPA 6010D	836303
92715972013	**MIT-PZ-19**	EPA 3010A	836274	EPA 6010D	836303
92715972014	**MIT-APA12-FD-01**	EPA 3010A	836274	EPA 6010D	836303
92715972015	**MIT-APA12-EB-02**	EPA 3010A	836274	EPA 6010D	836303
92715972016	**MIT-PZ-57**	EPA 3010A	836274	EPA 6010D	836303
92715972017	**MIT-PZ-17**	EPA 3010A	836274	EPA 6010D	836303
92715972018	**MIT-PZ-16**	EPA 3010A	836274	EPA 6010D	836303
92715972019	**MIT-PZ-14**	EPA 3010A	836274	EPA 6010D	836303
92715972020	**MIT-PZ-18**	EPA 3010A	836274	EPA 6010D	836303
92715972021	**MIT-PZ-33**	EPA 3010A	836274	EPA 6010D	836303
92715972001	**MIT-PZ-1D**	EPA 3005A	836225	EPA 6020B	836357
92715972002	**MIT-PZ-31**	EPA 3005A	836225	EPA 6020B	836357
92715972003	**MIT-PZ-7D**	EPA 3005A	836225	EPA 6020B	836357
92715972004	**MIT-APA12-FB-01**	EPA 3005A	836225	EPA 6020B	836357
92715972005	**MIT-PZ-23A**	EPA 3005A	836225	EPA 6020B	836357
92715972006	**MIT-APA12-FD-02**	EPA 3005A	836225	EPA 6020B	836357
92715972007	**MIT-PZ-15**	EPA 3005A	836225	EPA 6020B	836357
92715972008	**MIT-APA12-EB-01**	EPA 3005A	836225	EPA 6020B	836357
92715972009	**MIT-PZ-2D**	EPA 3005A	836225	EPA 6020B	836357
92715972010	**MIT-PZ-32**	EPA 3005A	836225	EPA 6020B	836357
92715972011	**MIT-PZ-25**	EPA 3005A	836225	EPA 6020B	836357
92715972012	**MIT-APA12-FB-02**	EPA 3005A	836340	EPA 6020B	836364
92715972013	**MIT-PZ-19**	EPA 3005A	836340	EPA 6020B	836364
92715972014	**MIT-APA12-FD-01**	EPA 3005A	836340	EPA 6020B	836364
92715972015	**MIT-APA12-EB-02**	EPA 3005A	836340	EPA 6020B	836364
92715972016	**MIT-PZ-57**	EPA 3005A	836340	EPA 6020B	836364
92715972017	**MIT-PZ-17**	EPA 3005A	836340	EPA 6020B	836364
92715972018	**MIT-PZ-16**	EPA 3005A	836340	EPA 6020B	836364
92715972019	**MIT-PZ-14**	EPA 3005A	836340	EPA 6020B	836364
92715972020	**MIT-PZ-18**	EPA 3005A	836340	EPA 6020B	836364
92715972021	**MIT-PZ-33**	EPA 3005A	836340	EPA 6020B	836364
92715972001	**MIT-PZ-1D**	EPA 7470A	839128	EPA 7470A	839227
92715972002	**MIT-PZ-31**	EPA 7470A	839128	EPA 7470A	839227
92715972003	**MIT-PZ-7D**	EPA 7470A	839128	EPA 7470A	839227
92715972004	**MIT-APA12-FB-01**	EPA 7470A	839128	EPA 7470A	839227
92715972005	**MIT-PZ-23A**	EPA 7470A	839128	EPA 7470A	839227

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715972006	**MIT-APA12-FD-02**	EPA 7470A	839128	EPA 7470A	839227
92715972007	**MIT-PZ-15**	EPA 7470A	839128	EPA 7470A	839227
92715972008	**MIT-APA12-EB-01**	EPA 7470A	839128	EPA 7470A	839227
92715972009	**MIT-PZ-2D**	EPA 7470A	839128	EPA 7470A	839227
92715972010	**MIT-PZ-32**	EPA 7470A	839128	EPA 7470A	839227
92715972011	**MIT-PZ-25**	EPA 7470A	839128	EPA 7470A	839227
92715972012	**MIT-APA12-FB-02**	EPA 7470A	839128	EPA 7470A	839227
92715972013	**MIT-PZ-19**	EPA 7470A	839128	EPA 7470A	839227
92715972014	**MIT-APA12-FD-01**	EPA 7470A	839128	EPA 7470A	839227
92715972015	**MIT-APA12-EB-02**	EPA 7470A	839128	EPA 7470A	839227
92715972016	**MIT-PZ-57**	EPA 7470A	839128	EPA 7470A	839227
92715972017	**MIT-PZ-17**	EPA 7470A	839128	EPA 7470A	839227
92715972018	**MIT-PZ-16**	EPA 7470A	839128	EPA 7470A	839227
92715972019	**MIT-PZ-14**	EPA 7470A	839128	EPA 7470A	839227
92715972020	**MIT-PZ-18**	EPA 7470A	839128	EPA 7470A	839227
92715972021	**MIT-PZ-33**	EPA 7470A	839231	EPA 7470A	839315
92715972001	**MIT-PZ-1D**	SM 2540C-2015	836472		
92715972002	**MIT-PZ-31**	SM 2540C-2015	836472		
92715972003	**MIT-PZ-7D**	SM 2540C-2015	836472		
92715972004	**MIT-APA12-FB-01**	SM 2540C-2015	836472		
92715972005	**MIT-PZ-23A**	SM 2540C-2015	836472		
92715972006	**MIT-APA12-FD-02**	SM 2540C-2015	836472		
92715972007	**MIT-PZ-15**	SM 2540C-2015	836472		
92715972008	**MIT-APA12-EB-01**	SM 2540C-2015	836429		
92715972009	**MIT-PZ-2D**	SM 2540C-2015	836429		
92715972010	**MIT-PZ-32**	SM 2540C-2015	836429		
92715972011	**MIT-PZ-25**	SM 2540C-2015	836429		
92715972012	**MIT-APA12-FB-02**	SM 2540C-2015	836701		
92715972013	**MIT-PZ-19**	SM 2540C-2015	836701		
92715972014	**MIT-APA12-FD-01**	SM 2540C-2015	836701		
92715972015	**MIT-APA12-EB-02**	SM 2540C-2015	837177		
92715972016	**MIT-PZ-57**	SM 2540C-2015	837177		
92715972017	**MIT-PZ-17**	SM 2540C-2015	836834		
92715972018	**MIT-PZ-16**	SM 2540C-2015	836834		
92715972019	**MIT-PZ-14**	SM 2540C-2015	836834		
92715972020	**MIT-PZ-18**	SM 2540C-2015	836834		
92715972021	**MIT-PZ-33**	SM 2540C-2015	836834		
92715972001	**MIT-PZ-1D**	EPA 300.0 Rev 2.1 1993	835934		
92715972002	**MIT-PZ-31**	EPA 300.0 Rev 2.1 1993	835934		
92715972003	**MIT-PZ-7D**	EPA 300.0 Rev 2.1 1993	835934		
92715972004	**MIT-APA12-FB-01**	EPA 300.0 Rev 2.1 1993	835934		
92715972005	**MIT-PZ-23A**	EPA 300.0 Rev 2.1 1993	835934		
92715972006	**MIT-APA12-FD-02**	EPA 300.0 Rev 2.1 1993	835934		
92715972007	**MIT-PZ-15**	EPA 300.0 Rev 2.1 1993	835934		
92715972008	**MIT-APA12-EB-01**	EPA 300.0 Rev 2.1 1993	835934		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1. AP-2
Pace Project No.: 92715972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715972009	**MIT-PZ-2D**	EPA 300.0 Rev 2.1 1993	835934		
92715972010	**MIT-PZ-32**	EPA 300.0 Rev 2.1 1993	835934		
92715972011	**MIT-PZ-25**	EPA 300.0 Rev 2.1 1993	835934		
92715972012	**MIT-APA12-FB-02**	EPA 300.0 Rev 2.1 1993	836354		
92715972013	**MIT-PZ-19**	EPA 300.0 Rev 2.1 1993	836604		
92715972014	**MIT-APA12-FD-01**	EPA 300.0 Rev 2.1 1993	836604		
92715972015	**MIT-APA12-EB-02**	EPA 300.0 Rev 2.1 1993	836604		
92715972016	**MIT-PZ-57**	EPA 300.0 Rev 2.1 1993	836604		
92715972017	**MIT-PZ-17**	EPA 300.0 Rev 2.1 1993	836604		
92715972018	**MIT-PZ-16**	EPA 300.0 Rev 2.1 1993	836604		
92715972019	**MIT-PZ-14**	EPA 300.0 Rev 2.1 1993	836604		
92715972020	**MIT-PZ-18**	EPA 300.0 Rev 2.1 1993	836604		
92715972021	**MIT-PZ-33**	EPA 300.0 Rev 2.1 1993	836604		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92715972

92715972

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/28/24 CM

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

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

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.7 **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): 2.7

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

2715458486 22

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

3

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Wood/WSP E&I Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Mitchell AP-A, AP-1, AP-2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day Standard	Project Number:	6122160170	Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92715972
1	MIT-PZ-1D	WG	G			2/28/24	1220		5	X		X							X	X	X	X		001
2	MIT-PZ-31	WG	G			↓	1425		5	X		X							X	X	X	X		002
3	MIT-PZ-7D	WG	G			↓	1459		5	X		X							X	X	X	X		003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/28/24	1650	[signature]	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G-A Power

Project #: WO# : 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 4/7/24 CH

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

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

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.5 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.5

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY Field Data Required? ☐ Yes ☐ No

2715458486 44

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

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

Project #

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

2

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Wood/WSP E&I Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Mitchell AP-A, AP-1, AP-2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day Standard	Project Number:	6122160170	Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	92715972 Pace Project No./ Lab I.D.
1	MIT-APA12-FB-01	WQ	G			2/28/24	0910		5	X		X							X	X	X	X		004
2	MIT-PZ-23A	WG	G			↓	1121		5	X		X							X	X	X	X		005
3	MIT-APA12-FD-02	WG	G			↓	—		5	X		X							X	X	X	X		006
4	MIT-PZ-15	WG	G			2/28/24	1326		5	X		X							X	X	X	X		007
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/28/24	1650	[signature]	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

WO# : 92715972
PM: BV Due Date: 03/14/24
CLIENT: 92-GP-MIT

Client Name: GA Power Project #:

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 4/24/24 GM

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

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

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: _____ Correction Factor: 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): _____

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY
2715458486 33

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

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

Project #

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Wood/WSP E&I Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Mitchell AP-A, AP-1, AP-2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day Standard	Project Number:	6122160170	Pace Profile #:	10834

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92715972
1	MIT-APA12-EB-01	WQ	G			2/27/24	1050		5	X		X						X	X	X	X		008
2	MIT-PZ-2D	WG	G				1302		5	X		X						X	X	X	X		009
3	MIT-PZ-32	WG	G				1505		5	X		X						X	X	X	X		010
4	MIT-PZ-25	WG	G			↓	1628		5	X		X						X	X	X	X		011
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/28/24	1650	Cindy Hunt	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

WO#: 92715972

Client Name: GA Power

Project #:

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: JG 3/14/24

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: 3.4 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 3.3

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day Standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APAI2-FB-02	WQ	G			2/29/24	0835		5	X		X						X	X	X	X		92715972 012
2	MIT-PZ-19	WG	G			↓	0955		5	X		X						X	X	X	X		013
3	MIT-APAI2-FD-01	WG	G			↓	—		5	X		X						X	X	X	X		014
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/29/24	1720				
	Daniel Howard / WSP	3/1/24	1518	[signature]	3/1	1517	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Daniel Howard		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: Daniel Howard	DATE Signed (MM/DD/YY): 2/29/24					

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: Gu Powell

Project #: WO#: 92715972
PM: BV Due Date: 03/14/24
CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/11/24 SA

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: 3.1 **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): 3.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715972**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	ESPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-EB-02	WQ	G			2/29/24	1125		5	X		X						X	X	X	X		015
2	MIT-PZ-57	WG	G			↓	1248		5	X		X						X	X	X	X		016
3	MIT-PZ-17	WG	G			↓	1433		5	X		X						X	X	X	X		017
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/29/24	1720				
	Daniel Howard / WSP	3/1/24	1519	[signature]	3/1	1577	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 2/29/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92715972

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/1/24 CAT

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	[illegible]	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-16	WG	G			2/29/24	0925		5	X		X							X	X	X	X		016
2	MIT-PZ-14	WG	G				1120		5	X		X							X	X	X	X		019
3	MIT-PZ-18	WG	G				1420		5	X		X							X	X	X	X		020
4	MIT-PZ-33	WG	G			↓	1555		5	X		X							X	X	X	X		021
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/29/24	1720				
	Daniel Howard	3/1/24	1517		3/1/24	1517	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 2/29/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

March 22, 2024

Joju Abraham
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 29, 2024 and March 01, 2024. 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,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Laura Midkiff, Southern Company
Rhonda Quinn, WSP
Greg Wrenn, WSP

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

CERTIFICATIONS

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE SUMMARY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715974001	**MIT-PZ-1D**	Water	02/28/24 12:20	02/29/24 09:37
92715974002	**MIT-PZ-31**	Water	02/28/24 14:25	02/29/24 09:37
92715974003	**MIT-PZ-7D**	Water	02/28/24 14:59	02/29/24 09:37
92715974004	**MIT-APA12-FB-01**	Water	02/28/24 09:10	02/29/24 09:37
92715974005	**MIT-PZ-23A**	Water	02/28/24 11:21	02/29/24 09:37
92715974006	**MIT-APA12-FD-02**	Water	02/28/24 00:00	02/29/24 09:37
92715974007	**MIT-PZ-15**	Water	02/28/24 13:26	02/29/24 09:37
92715974008	**MIT-APA12-EB-01**	Water	02/27/24 10:50	02/29/24 09:37
92715974009	**MIT-PZ-2D**	Water	02/27/24 13:02	02/29/24 09:37
92715974010	**MIT-PZ-32**	Water	02/27/24 15:05	02/29/24 09:37
92715974011	**MIT-PZ-25**	Water	02/27/24 16:28	02/29/24 09:37
92715974012	**MIT-APA12-FB-02**	Water	02/29/24 08:35	03/01/24 15:17
92715974013	**MIT-PZ-19**	Water	02/29/24 09:55	03/01/24 15:17
92715974014	**MIT-APA12-FD-01**	Water	02/29/24 00:00	03/01/24 15:17
92715974015	**MIT-APA12-EB-02**	Water	02/29/24 11:25	03/01/24 15:17
92715974016	**MIT-PZ-57**	Water	02/29/24 12:48	03/01/24 15:17
92715974017	**MIT-PZ-17**	Water	02/29/24 14:33	03/01/24 15:17
92715974018	**MIT-PZ-16**	Water	02/29/24 09:25	03/01/24 15:17
92715974019	**MIT-PZ-14**	Water	02/29/24 11:20	03/01/24 15:17
92715974020	**MIT-PZ-18**	Water	02/29/24 14:20	03/01/24 15:17
92715974021	**MIT-PZ-33**	Water	02/29/24 15:55	03/01/24 15:17

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92715974001	**MIT-PZ-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974002	**MIT-PZ-31**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974003	**MIT-PZ-7D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974004	**MIT-APA12-FB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974005	**MIT-PZ-23A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974006	**MIT-APA12-FD-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974007	**MIT-PZ-15**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974008	**MIT-APA12-EB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974009	**MIT-PZ-2D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974010	**MIT-PZ-32**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974011	**MIT-PZ-25**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974012	**MIT-APA12-FB-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974013	**MIT-PZ-19**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SAMPLE ANALYTE COUNT

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974014	**MIT-APA12-FD-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974015	**MIT-APA12-EB-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974016	**MIT-PZ-57**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974017	**MIT-PZ-17**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974018	**MIT-PZ-16**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974019	**MIT-PZ-14**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974020	**MIT-PZ-18**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715974021	**MIT-PZ-33**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974001	**MIT-PZ-1D**					
EPA 9315	Radium-226	-0.0116U ± 0.100 (0.271) C:103% T:NA	pCi/L		03/21/24 08:34	
EPA 9320	Radium-228	0.498U ± 0.470 (0.970) C:80% T:82%	pCi/L		03/15/24 12:00	
Total Radium Calculation	Total Radium	0.498U ± 0.570 (1.24)	pCi/L		03/22/24 10:25	
92715974002	**MIT-PZ-31**					
EPA 9315	Radium-226	0.0926U ± 0.117 (0.245) C:95% T:NA	pCi/L		03/21/24 08:34	
EPA 9320	Radium-228	0.0937U ± 0.452 (1.02) C:76% T:83%	pCi/L		03/15/24 12:00	
Total Radium Calculation	Total Radium	0.186U ± 0.569 (1.27)	pCi/L		03/22/24 10:25	
92715974003	**MIT-PZ-7D**					
EPA 9315	Radium-226	0.0853U ± 0.128 (0.282) C:88% T:NA	pCi/L		03/21/24 08:35	
EPA 9320	Radium-228	0.591U ± 0.460 (0.921) C:78% T:84%	pCi/L		03/15/24 12:00	
Total Radium Calculation	Total Radium	0.676U ± 0.588 (1.20)	pCi/L		03/22/24 10:25	
92715974004	**MIT-APA12-FB-01**					
EPA 9315	Radium-226	0.0806U ± 0.108 (0.230) C:90% T:NA	pCi/L		03/21/24 08:34	
EPA 9320	Radium-228	0.446U ± 0.456 (0.950) C:77% T:85%	pCi/L		03/15/24 12:00	
Total Radium Calculation	Total Radium	0.527U ± 0.564 (1.18)	pCi/L		03/22/24 10:25	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974005	**MIT-PZ-23A**					
EPA 9315	Radium-226	0.0982U ± 0.124 (0.260) C:94% T:NA	pCi/L		03/21/24 10:06	
EPA 9320	Radium-228	0.163U ± 0.427 (0.951) C:79% T:82%	pCi/L		03/15/24 12:01	
Total Radium Calculation	Total Radium	0.261U ± 0.551 (1.21)	pCi/L		03/22/24 10:25	
92715974006	**MIT-APA12-FD-02**					
EPA 9315	Radium-226	0.0386U ± 0.144 (0.350) C:89% T:NA	pCi/L		03/21/24 08:35	
EPA 9320	Radium-228	0.246U ± 0.412 (0.897) C:78% T:75%	pCi/L		03/15/24 12:01	
Total Radium Calculation	Total Radium	0.285U ± 0.556 (1.25)	pCi/L		03/22/24 10:25	
92715974007	**MIT-PZ-15**					
EPA 9315	Radium-226	0.256 ± 0.156 (0.238) C:88% T:NA	pCi/L		03/21/24 08:35	
EPA 9320	Radium-228	0.692U ± 0.458 (0.881) C:80% T:81%	pCi/L		03/15/24 12:01	
Total Radium Calculation	Total Radium	0.948U ± 0.614 (1.12)	pCi/L		03/22/24 10:25	
92715974008	**MIT-APA12-EB-01**					
EPA 9315	Radium-226	-0.0936U ± 0.0909 (0.305) C:93% T:NA	pCi/L		03/21/24 08:35	
EPA 9320	Radium-228	0.722U ± 0.531 (1.06) C:78% T:81%	pCi/L		03/15/24 15:14	
Total Radium Calculation	Total Radium	0.722U ± 0.622 (1.37)	pCi/L		03/22/24 10:25	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974009	**MIT-PZ-2D**					
EPA 9315	Radium-226	-0.0106U ± 0.103 (0.283) C:92% T:NA	pCi/L		03/21/24 08:35	
EPA 9320	Radium-228	0.588U ± 0.484 (0.977) C:75% T:84%	pCi/L		03/15/24 15:15	
Total Radium Calculation	Total Radium	0.588U ± 0.587 (1.26)	pCi/L		03/22/24 10:25	
92715974010	**MIT-PZ-32**					
EPA 9315	Radium-226	0.104U ± 0.121 (0.246) C:94% T:NA	pCi/L		03/21/24 08:36	
EPA 9320	Radium-228	1.31 ± 0.600 (1.02) C:72% T:80%	pCi/L		03/15/24 15:15	
Total Radium Calculation	Total Radium	1.41 ± 0.721 (1.27)	pCi/L		03/22/24 10:25	
92715974011	**MIT-PZ-25**					
EPA 9315	Radium-226	0.174U ± 0.133 (0.233) C:98% T:NA	pCi/L		03/21/24 08:36	
EPA 9320	Radium-228	0.263U ± 0.469 (1.03) C:73% T:84%	pCi/L		03/15/24 15:15	
Total Radium Calculation	Total Radium	0.437U ± 0.602 (1.26)	pCi/L		03/22/24 10:25	
92715974012	**MIT-APA12-FB-02**					
EPA 9315	Radium-226	0.0894U ± 0.107 (0.215) C:83% T:NA	pCi/L		03/21/24 08:36	
EPA 9320	Radium-228	0.540U ± 0.392 (0.768) C:86% T:77%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.629U ± 0.499 (0.983)	pCi/L		03/22/24 10:25	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974013	**MIT-PZ-19**					
EPA 9315	Radium-226	0.176U ± 0.300 (0.678) C:91% T:NA	pCi/L		03/21/24 08:38	
EPA 9320	Radium-228	0.568U ± 0.368 (0.700) C:87% T:82%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.744U ± 0.668 (1.38)	pCi/L		03/22/24 10:25	
92715974014	**MIT-APA12-FD-01**					
EPA 9315	Radium-226	0.148U ± 0.142 (0.270) C:84% T:NA	pCi/L		03/21/24 08:36	
EPA 9320	Radium-228	0.246U ± 0.349 (0.751) C:86% T:78%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.394U ± 0.491 (1.02)	pCi/L		03/22/24 10:25	
92715974015	**MIT-APA12-EB-02**					
EPA 9315	Radium-226	-0.0315U ± 0.0372 (0.178) C:93% T:NA	pCi/L		03/21/24 08:37	
EPA 9320	Radium-228	0.583U ± 0.381 (0.726) C:81% T:84%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.583U ± 0.418 (0.904)	pCi/L		03/22/24 10:25	
92715974016	**MIT-PZ-57**					
EPA 9315	Radium-226	0.109U ± 0.110 (0.212) C:94% T:NA	pCi/L		03/21/24 08:33	
EPA 9320	Radium-228	0.591U ± 0.381 (0.722) C:81% T:84%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.700U ± 0.491 (0.934)	pCi/L		03/22/24 10:25	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974017	**MIT-PZ-17**					
EPA 9315	Radium-226	0.141U ± 0.134 (0.257) C:83% T:NA	pCi/L		03/21/24 08:33	
EPA 9320	Radium-228	0.480U ± 0.334 (0.630) C:83% T:80%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.621U ± 0.468 (0.887)	pCi/L		03/22/24 10:25	
92715974018	**MIT-PZ-16**					
EPA 9315	Radium-226	-0.111U ± 0.0738 (0.296) C:84% T:NA	pCi/L		03/21/24 08:33	
EPA 9320	Radium-228	0.463U ± 0.341 (0.663) C:85% T:83%	pCi/L		03/19/24 12:33	
Total Radium Calculation	Total Radium	0.463U ± 0.415 (0.959)	pCi/L		03/22/24 10:25	
92715974019	**MIT-PZ-14**					
EPA 9315	Radium-226	0.166U ± 0.128 (0.209) C:85% T:NA	pCi/L		03/21/24 08:33	
EPA 9320	Radium-228	0.267U ± 0.300 (0.627) C:83% T:83%	pCi/L		03/19/24 12:34	
Total Radium Calculation	Total Radium	0.433U ± 0.428 (0.836)	pCi/L		03/22/24 10:25	
92715974020	**MIT-PZ-18**					
EPA 9315	Radium-226	-0.0244U ± 0.0985 (0.283) C:86% T:NA	pCi/L		03/21/24 08:34	
EPA 9320	Radium-228	0.228U ± 0.317 (0.680) C:80% T:85%	pCi/L		03/19/24 12:34	
Total Radium Calculation	Total Radium	0.228U ± 0.416 (0.963)	pCi/L		03/22/24 10:25	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

SUMMARY OF DETECTION

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715974021	**MIT-PZ-33**					
EPA 9315	Radium-226	0.111U ± 0.145 (0.310) C:84% T:NA	pCi/L		03/19/24 08:27	
EPA 9320	Radium-228	0.367U ± 0.345 (0.702) C:81% T:80%	pCi/L		03/19/24 12:32	
Total Radium Calculation	Total Radium	0.478U ± 0.490 (1.01)	pCi/L		03/20/24 11:37	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-1D **Lab ID: 92715974001** Collected: 02/28/24 12:20 Received: 02/29/24 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	**-0.0116U ± 0.100 (0.271) C:103% T:NA**	pCi/L	03/21/24 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.498U ± 0.470 (0.970) C:80% T:82%**	pCi/L	03/15/24 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.498U ± 0.570 (1.24)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-31 **Lab ID: 92715974002** Collected: 02/28/24 14:25 Received: 02/29/24 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	**0.0926U ± 0.117 (0.245) C:95% T:NA**	pCi/L	03/21/24 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0937U ± 0.452 (1.02) C:76% T:83%**	pCi/L	03/15/24 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.186U ± 0.569 (1.27)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-7D **Lab ID: 92715974003** Collected: 02/28/24 14:59 Received: 02/29/24 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	**0.0853U ± 0.128 (0.282) C:88% T:NA**	pCi/L	03/21/24 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.591U ± 0.460 (0.921) C:78% T:84%**	pCi/L	03/15/24 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.676U ± 0.588 (1.20)**	pCi/L	03/22/24 10:25	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-FB-01 **Lab ID: 92715974004** Collected: 02/28/24 09:10 Received: 02/29/24 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	**0.0806U ± 0.108 (0.230) C:90% T:NA**	pCi/L	03/21/24 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.446U ± 0.456 (0.950) C:77% T:85%**	pCi/L	03/15/24 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.527U ± 0.564 (1.18)**	pCi/L	03/22/24 10:25	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-23A **Lab ID: 92715974005** Collected: 02/28/24 11:21 Received: 02/29/24 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	**0.0982U ± 0.124 (0.260) C:94% T:NA**	pCi/L	03/21/24 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.163U ± 0.427 (0.951) C:79% T:82%**	pCi/L	03/15/24 12:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.261U ± 0.551 (1.21)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-FD-02 **Lab ID: 92715974006** Collected: 02/28/24 00:00 Received: 02/29/24 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	**0.0386U ± 0.144 (0.350) C:89% T:NA**	pCi/L	03/21/24 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.246U ± 0.412 (0.897) C:78% T:75%**	pCi/L	03/15/24 12:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.285U ± 0.556 (1.25)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-15 **Lab ID: 92715974007** Collected: 02/28/24 13:26 Received: 02/29/24 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 ± 0.156 (0.238) C:88% T:NA**	pCi/L	03/21/24 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.692U ± 0.458 (0.881) C:80% T:81%**	pCi/L	03/15/24 12:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.948U ± 0.614 (1.12)**	pCi/L	03/22/24 10:25	7440-14-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-EB-01 **Lab ID: 92715974008** Collected: 02/27/24 10:50 Received: 02/29/24 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	**-0.0936U ± 0.0909 (0.305) C:93% T:NA**	pCi/L	03/21/24 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.722U ± 0.531 (1.06) C:78% T:81%**	pCi/L	03/15/24 15:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.722U ± 0.622 (1.37)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-2D **Lab ID: 92715974009** Collected: 02/27/24 13:02 Received: 02/29/24 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	**-0.0106U ± 0.103 (0.283) C:92% T:NA**	pCi/L	03/21/24 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.588U ± 0.484 (0.977) C:75% T:84%**	pCi/L	03/15/24 15:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.588U ± 0.587 (1.26)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-32 **Lab ID: 92715974010** Collected: 02/27/24 15:05 Received: 02/29/24 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	**0.104U ± 0.121 (0.246) C:94% T:NA**	pCi/L	03/21/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.31 ± 0.600 (1.02) C:72% T:80%**	pCi/L	03/15/24 15:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.721 (1.27)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-25 **Lab ID: 92715974011** Collected: 02/27/24 16:28 Received: 02/29/24 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	**0.174U ± 0.133 (0.233) C:98% T:NA**	pCi/L	03/21/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.263U ± 0.469 (1.03) C:73% T:84%**	pCi/L	03/15/24 15:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.437U ± 0.602 (1.26)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-FB-02 **Lab ID: 92715974012** Collected: 02/29/24 08:35 Received: 03/01/24 15:17 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	**0.0894U ± 0.107 (0.215) C:83% T:NA**	pCi/L	03/21/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.540U ± 0.392 (0.768) C:86% T:77%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.629U ± 0.499 (0.983)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-19 **Lab ID: 92715974013** Collected: 02/29/24 09:55 Received: 03/01/24 15:17 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	**0.176U ± 0.300 (0.678) C:91% T:NA**	pCi/L	03/21/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.568U ± 0.368 (0.700) C:87% T:82%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.744U ± 0.668 (1.38)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-FD-01 **Lab ID: 92715974014** Collected: 02/29/24 00:00 Received: 03/01/24 15:17 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	**0.148U ± 0.142 (0.270) C:84% T:NA**	pCi/L	03/21/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.246U ± 0.349 (0.751) C:86% T:78%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.394U ± 0.491 (1.02)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-APA12-EB-02 **Lab ID: 92715974015** Collected: 02/29/24 11:25 Received: 03/01/24 15:17 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	**-0.0315U ± 0.0372 (0.178) C:93% T:NA**	pCi/L	03/21/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.583U ± 0.381 (0.726) C:81% T:84%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.583U ± 0.418 (0.904)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-57 **Lab ID: 92715974016** Collected: 02/29/24 12:48 Received: 03/01/24 15:17 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	**0.109U ± 0.110 (0.212) C:94% T:NA**	pCi/L	03/21/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.591U ± 0.381 (0.722) C:81% T:84%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.700U ± 0.491 (0.934)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-17 **Lab ID: 92715974017** Collected: 02/29/24 14:33 Received: 03/01/24 15:17 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	**0.141U ± 0.134 (0.257) C:83% T:NA**	pCi/L	03/21/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.480U ± 0.334 (0.630) C:83% T:80%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.621U ± 0.468 (0.887)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-16 **Lab ID: 92715974018** Collected: 02/29/24 09:25 Received: 03/01/24 15:17 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	**-0.111U ± 0.0738 (0.296) C:84% T:NA**	pCi/L	03/21/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.463U ± 0.341 (0.663) C:85% T:83%**	pCi/L	03/19/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.463U ± 0.415 (0.959)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-14 **Lab ID: 92715974019** Collected: 02/29/24 11:20 Received: 03/01/24 15:17 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	**0.166U ± 0.128 (0.209) C:85% T:NA**	pCi/L	03/21/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.267U ± 0.300 (0.627) C:83% T:83%**	pCi/L	03/19/24 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.433U ± 0.428 (0.836)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-18 **Lab ID: 92715974020** Collected: 02/29/24 14:20 Received: 03/01/24 15:17 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	**-0.0244U ± 0.0985 (0.283) C:86% T:NA**	pCi/L	03/21/24 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.228U ± 0.317 (0.680) C:80% T:85%**	pCi/L	03/19/24 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.228U ± 0.416 (0.963)**	pCi/L	03/22/24 10:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Sample: MIT-PZ-33 **Lab ID: 92715974021** Collected: 02/29/24 15:55 Received: 03/01/24 15:17 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	**0.111U ± 0.145 (0.310) C:84% T:NA**	pCi/L	03/19/24 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.367U ± 0.345 (0.702) C:81% T:80%**	pCi/L	03/19/24 12:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.478U ± 0.490 (1.01)**	pCi/L	03/20/24 11:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

QC Batch: 653108
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715974012, 92715974013, 92715974014, 92715974015, 92715974016, 92715974017, 92715974018, 92715974019, 92715974020, 92715974021

METHOD BLANK: 3182111 Matrix: Water
Associated Lab Samples: 92715974012, 92715974013, 92715974014, 92715974015, 92715974016, 92715974017, 92715974018, 92715974019, 92715974020, 92715974021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.414 ± 0.431 (0.897) C:73% T:80%	pCi/L	03/19/24 12:32	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

QC Batch: 652679 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715974001, 92715974002, 92715974003, 92715974004, 92715974005, 92715974006, 92715974007, 92715974008, 92715974009, 92715974010, 92715974011

METHOD BLANK: 3179471 Matrix: Water
Associated Lab Samples: 92715974001, 92715974002, 92715974003, 92715974004, 92715974005, 92715974006, 92715974007, 92715974008, 92715974009, 92715974010, 92715974011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.556 ± 0.444 (0.889) C:78% T:84%	pCi/L	03/15/24 12:00	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

QC Batch: 652905
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715974001, 92715974002, 92715974003, 92715974004, 92715974005, 92715974006, 92715974007, 92715974008, 92715974009, 92715974010, 92715974011, 92715974012, 92715974013, 92715974014, 92715974015, 92715974016, 92715974017, 92715974018, 92715974019, 92715974020

METHOD BLANK: 3180688
Matrix: Water
Associated Lab Samples: 92715974001, 92715974002, 92715974003, 92715974004, 92715974005, 92715974006, 92715974007, 92715974008, 92715974009, 92715974010, 92715974011, 92715974012, 92715974013, 92715974014, 92715974015, 92715974016, 92715974017, 92715974018, 92715974019, 92715974020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.153 ± 0.123 (0.214) C:91% T:NA	pCi/L	03/21/24 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

QC Batch: 652907
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715974021

METHOD BLANK: 3180690 Matrix: Water
Associated Lab Samples: 92715974021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0380 ± 0.101 (0.298) C:93% T:NA	pCi/L	03/18/24 10:09	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALIFIERS

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715974001	**MIT-PZ-1D**	EPA 9315	652905		
92715974002	**MIT-PZ-31**	EPA 9315	652905		
92715974003	**MIT-PZ-7D**	EPA 9315	652905		
92715974004	**MIT-APA12-FB-01**	EPA 9315	652905		
92715974005	**MIT-PZ-23A**	EPA 9315	652905		
92715974006	**MIT-APA12-FD-02**	EPA 9315	652905		
92715974007	**MIT-PZ-15**	EPA 9315	652905		
92715974008	**MIT-APA12-EB-01**	EPA 9315	652905		
92715974009	**MIT-PZ-2D**	EPA 9315	652905		
92715974010	**MIT-PZ-32**	EPA 9315	652905		
92715974011	**MIT-PZ-25**	EPA 9315	652905		
92715974012	**MIT-APA12-FB-02**	EPA 9315	652905		
92715974013	**MIT-PZ-19**	EPA 9315	652905		
92715974014	**MIT-APA12-FD-01**	EPA 9315	652905		
92715974015	**MIT-APA12-EB-02**	EPA 9315	652905		
92715974016	**MIT-PZ-57**	EPA 9315	652905		
92715974017	**MIT-PZ-17**	EPA 9315	652905		
92715974018	**MIT-PZ-16**	EPA 9315	652905		
92715974019	**MIT-PZ-14**	EPA 9315	652905		
92715974020	**MIT-PZ-18**	EPA 9315	652905		
92715974021	**MIT-PZ-33**	EPA 9315	652907		
92715974001	**MIT-PZ-1D**	EPA 9320	652679		
92715974002	**MIT-PZ-31**	EPA 9320	652679		
92715974003	**MIT-PZ-7D**	EPA 9320	652679		
92715974004	**MIT-APA12-FB-01**	EPA 9320	652679		
92715974005	**MIT-PZ-23A**	EPA 9320	652679		
92715974006	**MIT-APA12-FD-02**	EPA 9320	652679		
92715974007	**MIT-PZ-15**	EPA 9320	652679		
92715974008	**MIT-APA12-EB-01**	EPA 9320	652679		
92715974009	**MIT-PZ-2D**	EPA 9320	652679		
92715974010	**MIT-PZ-32**	EPA 9320	652679		
92715974011	**MIT-PZ-25**	EPA 9320	652679		
92715974012	**MIT-APA12-FB-02**	EPA 9320	653108		
92715974013	**MIT-PZ-19**	EPA 9320	653108		
92715974014	**MIT-APA12-FD-01**	EPA 9320	653108		
92715974015	**MIT-APA12-EB-02**	EPA 9320	653108		
92715974016	**MIT-PZ-57**	EPA 9320	653108		
92715974017	**MIT-PZ-17**	EPA 9320	653108		
92715974018	**MIT-PZ-16**	EPA 9320	653108		
92715974019	**MIT-PZ-14**	EPA 9320	653108		
92715974020	**MIT-PZ-18**	EPA 9320	653108		
92715974021	**MIT-PZ-33**	EPA 9320	653108		
92715974001	**MIT-PZ-1D**	Total Radium Calculation	656958		
92715974002	**MIT-PZ-31**	Total Radium Calculation	656958		
92715974003	**MIT-PZ-7D**	Total Radium Calculation	656958		
92715974004	**MIT-APA12-FB-01**	Total Radium Calculation	656958		
92715974005	**MIT-PZ-23A**	Total Radium Calculation	656958		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Mitchell AP-A, AP-1. AP-2- RAD
Pace Project No.: 92715974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715974006	**MIT-APA12-FD-02**	Total Radium Calculation	656958		
92715974007	**MIT-PZ-15**	Total Radium Calculation	656958		
92715974008	**MIT-APA12-EB-01**	Total Radium Calculation	656958		
92715974009	**MIT-PZ-2D**	Total Radium Calculation	656958		
92715974010	**MIT-PZ-32**	Total Radium Calculation	656958		
92715974011	**MIT-PZ-25**	Total Radium Calculation	656958		
92715974012	**MIT-APA12-FB-02**	Total Radium Calculation	656958		
92715974013	**MIT-PZ-19**	Total Radium Calculation	656958		
92715974014	**MIT-APA12-FD-01**	Total Radium Calculation	656958		
92715974015	**MIT-APA12-EB-02**	Total Radium Calculation	656958		
92715974016	**MIT-PZ-57**	Total Radium Calculation	656958		
92715974017	**MIT-PZ-17**	Total Radium Calculation	656958		
92715974018	**MIT-PZ-16**	Total Radium Calculation	656958		
92715974019	**MIT-PZ-14**	Total Radium Calculation	656958		
92715974020	**MIT-PZ-18**	Total Radium Calculation	656958		
92715974021	**MIT-PZ-33**	Total Radium Calculation	656367		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92715974

92715974

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 12-11-01 [illegible]

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

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

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Correction Factor:

Cooler Temp: _____ 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): _____

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

2715458486 33

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92715974

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1																										
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day Standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes (see valid codes to left) MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92715974
1	MIT-APA12-EB-01	WG	G			2/27/24	1050		5	X		X						X	X	X	X		008
2	MIT-PZ-2D	WG	G				1302		5	X		X						X	X	X	X		009
3	MIT-PZ-32	WG	G				1505		5	X		X						X	X	X	X		010
4	MIT-PZ-25	WG	G			↓	1628		5	X		X						X	X	X	X		011
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/28/24	16.50	[signature]	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92715974

PM: BV Due Date: 03/21/24
CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 4-11-24 CAB

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.5 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.5

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY
2715458486 44

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715974

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

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

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

Project #

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	1801N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

2

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Wood/WSP E&I Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Mitchell AP-A, AP-1, AP-2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day Standard	Project Number:	6122160170	Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO_4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																							92715974
1	MIT-APA12-FB-01	WQ	G			2/28/24	0910		5	X		X						X	X	X	X			004
2	MIT-PZ-23A	WG	G			↓	1121		5	X		X						X	X	X	X			005
3	MIT-APA12-FD-02	WG	G			↓	—		5	X		X						X	X	X	X			006
4	MIT-PZ-15	WG	G			2/28/24	1326		5	X		X						X	X	X	X			007
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/28/24	1650	[signature]	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard — DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92715974

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/22/24 CM

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

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

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.7 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.7

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

2715745848622

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715974
PM: BV Due Date: 03/21/24
CLIENT: 92-GP-MIT

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

3

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Wood/WSP E&I Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Mitchell AP-A, AP-1, AP-2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day Standard	Project Number:	6122160170	Pace Profile #:	10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320(Radium 226/22	Residual Chlorine (Y/N)	92715974 Pace Project No./ Lab I.D.
1	MIT-PZ-1D		WG	G			2/28/24	1220		5	X		X						X	X	X	X		001
2	MIT-PZ-3I		WG	G				1425		5	X		X						X	X	X	X		002
3	MIT-PZ-7D		WG	G			↓	1459		5	X		X						X	X	X	X		003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard / WSP	2/28/24	1650	Charles Hunter	2/29/24	0937	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 02/28/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92715974**

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: JG 3/1/24

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: 3.4 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 3.3

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical Services	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715974

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day Standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APAI2-FB-02	WQ	G			2/29/24	0835		5	X		X						X	X	X	X		92715974 012
2	MIT-PZ-19	WG	G			↓	0955		5	X		X						X	X	X	X		013
3	MIT-APAI2-FD-01	WG	G			↓	—		5	X		X						X	X	X	X		014
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/29/24	1720				
	Daniel Howard/WSP	3/1/24	15:B	[signature]	3/1	1517	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard — DATE Signed (MM/DD/YY): 2/29/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO#: 92715974
PM: BV Due Date: 03/21/24
CLIENT: 92-GP-MIT

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

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/11/24 SM

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: 3.1 **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): 3.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

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

***Check all unpreserved Nitrates for chlorine

Project **WO#: 92715974**

PM: BV Due Date: 03/21/24

CLIENT: 92-GP-MIT

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	5 6 IN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D Required Client Information / SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/(Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-APA12-EB-02	WQ	G			2/29/24	1125		5	X		X						X	X	X	X		015
2	MIT-PZ-57	WG	G			↓	1248		5	X		X						X	X	X	X		016
3	MIT-PZ-17	WG	G			↓	1433		5	X		X						X	X	X	X		017
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/29/24	1720				
	Daniel Howard/WSP	3/1/24	1519		3/1	1519	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard DATE Signed (MM/DD/YY): 2/29/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mer[illegible] ☐ [illegible] ☑ [illegible] ☐

Sample Condition Upon Receipt

WO#: 92715974
PM: BV Due Date: 03/21/24
CLIENT: 92-GP-MIT

Client Name: GA Power Project #:

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

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/1/24 CAT

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

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

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	[illegible]	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Wood/WSP E&I Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Mitchell AP-A, AP-1, AP-2	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day standard	Project Number: 6122160170	Pace Profile #: 10834

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Cl, F, SO4	TDS	Appendix III/IV Total Metals	Radium 9315/9320/Radium 226/22	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MIT-PZ-16		WG	G			2/29/24	0925		5	X		X							X	X	X	X		
2	MIT-PZ-14		WG	G				1120		5	X		X							X	X	X	X		
3	MIT-PZ-18		WG	G				1420		5	X		X							X	X	X	X		
4	MIT-PZ-33		WG	G			↓	1555		5	X		X							X	X	X	X		
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Daniel Howard/WSP	2/29/24	1720				
	Daniel Howard	3/1/24	1517		3/1/24	1517	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Howard

SIGNATURE of SAMPLER: Daniel Howard

DATE Signed (MM/DD/YY): 2/29/24

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/11/2024
Worklist:	77979
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3179471
MB concentration:	0.556
M/B 2 Sigma CSU:	0.444
MB MDC:	0.889
MB Numerical Performance Indicator:	2.46
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77979	LCSD77979
Count Date:	3/15/2024	3/15/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.493	37.493
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.816
Target Conc. (pCi/L, g, F):	4.600	4.593
Uncertainty (Calculated):	0.225	0.225
Result (pCi/L, g, F):	5.108	4.394
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.244	1.129
Numerical Performance Indicator:	0.79	-0.34
Percent Recovery:	111.05%	95.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS77979	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77979	
Sample Result (pCi/L, g, F):	5.108	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.244	
Sample Duplicate Result (pCi/L, g, F):	4.394	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.129	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.834	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.89%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

ET 3-18-24

3/18/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/13/2024
Worklist:	78006
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3182111
MB concentration:	0.414
M/B 2 Sigma CSU:	0.431
MB MDC:	0.897
MB Numerical Performance Indicator:	1.88
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS78006	LCSD78006
Count Date:	3/19/2024	3/19/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.443	37.443
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.823
Target Conc. (pCi/L, g, F):	4.593	4.551
Uncertainty (Calculated):	0.225	0.223
Result (pCi/L, g, F):	4.579	3.685
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.026	0.854
Numerical Performance Indicator:	-0.03	-1.92
Percent Recovery:	99.69%	80.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS78006	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD78006	
Sample Result (pCi/L, g, F):	4.579	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.026	
Sample Duplicate Result (pCi/L, g, F):	3.685	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.854	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.313	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.74%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

3/13/24

SLC 3/20/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/15/2024
Worklist:	77995
Matrix:	W I

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3180688
MB concentration:	0.153
M/B 2 Sigma CSU:	0.123
MB MDC:	0.214
MB Numerical Performance Indicator:	2.43
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77995	**LCSD77995**
Count Date:	3/21/2024	3/21/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.507
Target Conc. (pCi/L, g, F):	4.955	4.940
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.997	4.571
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.909	0.830
Numerical Performance Indicator:	0.09	-0.84
Percent Recovery:	100.85%	92.53%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS77995	92715974020
Duplicate Sample I.D.	LCSD77995	92715974020DUP
Sample Result (pCi/L, g, F):	4.997	-0.024
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.909	0.098
Sample Duplicate Result (pCi/L, g, F):	4.571	0.159
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.830	0.142
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.678	-2.080
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.60%	272.55%
Duplicate Status vs Numerical Indicator:	Pass	Warning
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

VAM 3/22/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/14/2024
Worklist:	77996
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3180690
MB concentration:	-0.038
M/B 2 Sigma CSU:	0.101
MB MDC:	0.298
MB Numerical Performance Indicator:	-0.74
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77996	LCSD77996
Count Date:	3/19/2024	3/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.502
Target Conc. (pCi/L, g, F):	4.955	4.982
Uncertainty (Calculated):	0.233	0.234
Result (pCi/L, g, F):	5.212	5.154
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.940	0.937
Numerical Performance Indicator:	0.52	0.35
Percent Recovery:	105.19%	103.44%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS77996	92715974021
Duplicate Sample I.D.	LCSD77996	92715974021DUP
Sample Result (pCi/L, g, F):	5.212	0.111
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.940	0.145
Sample Duplicate Result (pCi/L, g, F):	5.154	0.013
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.937	0.096
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.086	1.106
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.68%	158.89%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

ET 3-19-24

VAM 3/19/24

APPENDIX C
DATA QUALITY EVALUATION

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #20
WSP Project Number: 6122160170.2303.**
Site: Ash Ponds AP-A, AP-1, and AP-2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG No: 92689423

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #20 (September 2023) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in United States Environmental Protection Agency (USEPA) Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in these SDGs are usable* with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data packages, as submitted to WSP USA Environment & Infrastructure Inc. (WSP), formerly Wood Environment & Infrastructure Solutions, Inc. (Wood) are complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW6010D, SW7470A, SM2540C, and EPA 300.0.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for Appendix III and Appendix IV metals (antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Methods SW6020B and SW6010D (calcium), mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM2540C. The anions were analyzed by Pace-Asheville, North Carolina. These data were reported in SDG 92689423.

Samples were also sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320. The radium data were reported in SDG 92689424 and validated separately.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

SDG 92689423:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	09/19/23	II	MIT-PZ-31	09/19/23	II
MIT-PZ-2D	09/19/23	II	MIT-PZ-32	09/19/23	II
MIT-PZ-7D	09/20/23	II	MIT-PZ-33	09/21/23	II
MIT-PZ-14	09/20/23	II	MIT-PZ-57	09/21/23	II
MIT-PZ-15	09/20/23	II	**QC Samples**		
MIT-PZ-16	09/19/23	II	MIT-APA12-EB-1	09/20/23	II
MIT-PZ-17	09/20/23	II	MIT-APA12-EB-2	09/21/23	II
MIT-PZ-18	09/20/23	II	MIT-APA12-FB-1	09/19/23	II
MIT-PZ-19	09/20/23	II	MIT-APA12-FB-2	09/20/23	II
MIT-PZ-23A	09/20/23	II	MIT-APA12-FD-1	09/21/23	II
MIT-PZ-25	09/19/23	II	MIT-APA12-FD-2	09/21/23	II

These samples were collected from Ash Ponds AP-A, AP-1 and AP-2 between September 19 and September 21, 2023. Sample MIT-APA12-FD-1 is a field duplicate of MIT-PZ-33, and MIT-APA12-FD-2 is a field duplicate of MIT-PZ-57. The field QC blanks include samples MIT-APA12-FB-1 and MIT-APA12-FB-2 (field blanks) and MIT-APA12-EB-1 and MIT-APA12-EB-2 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQuIS database as instructed by GPC by adding the sample type code (WG [groundwater], WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20230920]); example: *MIT-PZ-18-WG-20230920*.

The analytical results for the metals, mercury, and anions data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B)

The samples were submitted to Pace for CCR Appendix III and Appendix IV metals by Methods SW6010D and SW6020B. The CCR Appendix III metals for this event are: boron (B) and calcium (Ca). The Appendix IV metals for this event are antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within laboratory QC limits except for method and equipment blank contamination, and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One of the method blanks associated with the samples analyzed in this SDG contained a reportable detection of boron between the method detection limit (MDL) and the reporting limit (RL). Associated results less than the RL were considered not detected and results above the RL but less than 10x the blank concentration were considered estimated (possibly biased high).

> *Action: The boron results for PZ-1D, PZ-2D, PZ-14, PZ-31, and PZ-32 were flagged "U*" and the result for PZ-17 was flagged "J".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were performed on samples PZ-31, and PZ-1D, and the recoveries and RPDs were within QC limits except for calcium in PZ-31. The recoveries were below the lower QC limit indicating possible low bias; however, no qualification was necessary because calcium was detected in the parent sample greater than 4 times the spike concentration.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Samples FB-1 and FB-2 are field blanks and are associated with samples PZ-2D and PZ-57, respectively. Samples EB-1 and EB-2 are equipment blanks. EB-1 is an equipment blank of the discharge tubing for dedicated bladder pumps and EB-2 is the equipment blank associated with monitoring well PZ-57. One of the equipment blanks (EB-2) contained a reportable detection of antimony between the MDL and RL; however, no qualification was necessary because antimony was not detected in the associated sample.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6010D and SW6020B.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator unless overridden by qualification for other QC criteria.

Mercury (SW7470A)

The samples were submitted to Pace for mercury by Method SW7470A. Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within these SDGs contained no reportable detections of mercury.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on sample PZ-1D, and the recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event. The RPD could not be calculated because mercury was not detected in either the parent or duplicate samples.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Mercury was not detected in the equipment blanks or the field blanks.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of mercury by USEPA Method SW7470A. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, however there were none in this SDG.

Anions (EPA 300)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300. Each of the Level II components were within laboratory QC limits except for MS/MSD recoveries and field duplicate precision.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on PZ-19, and the recoveries for sulfate were below the lower QC limit, indicating possible low bias.

Action: The sulfate result for sample PZ-19 was flagged "J".

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved except for fluoride in duplicate pair PZ-57/FD-2. The absolute difference between the results was greater than the RL, and the results considered estimated.

Action: The fluoride result for FD-2 was flagged "J", and no additional qualification was necessary for PZ-57.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Anions were not detected in the equipment blank or the field blank.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM2540C)

The samples were submitted to Pace for TDS by Method SM2540C. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed on project samples PZ-1D, PZ-7D, and PZ-33 and the RPDs were within QC limits.

Field Duplicate Precision

As previously noted, two field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

TDS was not detected in the equipment blank or field blank samples submitted with this SDG.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM2540C and no samples required dilutions; therefore, RLs were met for this project.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory; however, there were none reported in this SDG.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: DWK 10/24/23
Checked By/Date: JAH 10/25/23

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92689423
SAMPLING DATES: SEPTEMBER 19 - 21, 2023
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
MIT-PZ-1D	PZ-1D	N	92689423	SW6020B	boron	0.024	J,B	U*	BL	mg/L
MIT-PZ-2D	PZ-2D	N	92689423	SW6020B	boron	0.011	J,B	U*	BL	mg/L
MIT-PZ-14	PZ-14	N	92689423	SW6020B	boron	0.027	J,B	U*	BL	mg/L
MIT-PZ-17	PZ-17	N	92689423	SW6020B	boron	0.1	B	J	BL	mg/L
MIT-PZ-19	PZ-19	N	92689423	E300.0	sulfate	83.4	M1	J	M-	mg/L
MIT-PZ-31	PZ-31	N	92689423	SW6020B	boron	0.022	J,B	U*	BL	mg/L
MIT-PZ-32	PZ-32	N	92689423	SW6020B	boron	0.011	J,B	U*	BL	mg/L
MIT-APA12-FD-2	PZ-57	FD	92689423	E300.0	fluoride	0.18		J	FD	mg/L

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by other DQE qualifiers.

Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
M1 =Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Reason Codes:
BL = Laboratory blank contamination. The result should be considered "not-detected".
FD = Field duplicate precision.
M- = MS and MSD recoveries outside acceptance limits. The result may be biased low.

Validation Qualifiers:
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.
U* = This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

Prepared by/Date: DWK 10/24/23
Checked by/Date: JAH 10/25/23

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 20
Project No: 6122160170.2303.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92689423 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 10/24/23 **Senior Reviewer/Date:** J. Hartness 10/25/23

YES	NO	NA		COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.	
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6˚C±2)** Temps. = 4.6, 6.0, 6.0, 5.4, 5.8˚C - OK	
X			**Holding times met (180 days)** OK	
	X		**QC Blanks Review – any MB results above RL?** Method Blanks: p. 32 SW6010D MB 4166999 (Ca only) = ND p. 33 SW6010D MB 4167200 (Ca only) = ND p. 34 SW6020B MB 4159713 B = 0.012 J mg/L x10 = **0.12 mg/L** ***Flag U****: PZ-1D, PZ-2D, PZ-14, PZ-31, PZ-32 ***Flag J***: PZ-17 p. 36 SW6020B MB 4162519 = ND Field/Equipment Blanks: EB-01 = ND EB-02 Sb = 0.0014 J mg/L x10 = **0.014 mg/L -** *No flag, assoc. result ND* FB-01 and FB-02 = ND	
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 32 SW6010D LCS 4167000 – Ca =97% OK p. 33 SW6010D LCS 4167201 – Ca =101% OK p. 34 SW6020B LCS 4159714– All OK p. 36 SW6020B LCS 4162510 – All OK	

Metals (SW6010D/6020B) continued:

YES NO NA COMMENTS

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

Constituent	**PZ-33** (mg/L)	**FD-1** (mg/L)	RPD/Diff & RL
Ca	81.4	83.7	2.8
Ba	0.041	0.040	2.5
B	0.45	0.39	14.3

Constituent	**PZ-57** (mg/L)	**FD-2** (mg/L)	RPD/Diff & RL
Ca	79.5	89.2	11.5
Ba	0.062	0.058	6.7
B	0.2	0.18	10.5
Cr	0.0013J	0.0012J	0.0001 0.005
Li	0.00089J	0.00083J	0.00006 0.03

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).

No lab dups for metals

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 32 SW6010D (Ca only) **– *PZ-31*** – *Ca* = 2, -348% RPD = 4 No flag, sample > 4x spike
p. 33 SW6010D (Ca only) – *not a sample from this SDG*

p. 35 SW6020B ***PZ-1D*** - All %rec and RPDs OK
p. 37 SW6020B - *not a sample from this SDG*

X **Post Digestion Spike recoveries within limits (if applicable: 80-120%)**

Not reported for L2 data package

X **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**

No dissolved results in this SDG

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Checked all samples in this SDG - OK

No dilutions in this SDG for metals

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 20
Project No: 6122160170.2303.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92689423 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 10/24/23 **Senior Reviewer/Date:** J. Hartness 10/25/23

YES	NO	NA		COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.	
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6˚C±2)** Temps. = 4.6, 6.0, 6.0, 5.4, 5.8˚C – OK	
X			**Holding times met (Hg = 28 days)** Coll: 09/19/23 – 09/21/23; Prep: 10/09/23 Anal: 10/09/23	
X			**QC Blanks Review – any MB results above RL?** Method Blanks: p. 38 MB 4157672 Hg = ND p. 39 MB 4166775 Hg = ND Field/Equipment Blanks: EB-01 and EB-02 = ND FB-01 and FB-02 = ND	
X			**Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)** p. 38 LCS 4157673 Hg = 112% p. 39 LCS 4166776 Hg = 95%	
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**	

	PZ-33 (mg/L)	FD-1 (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA
	PZ-57 (mg/L)	**FD-2** (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

No lab dups for Hg

X			**Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)** p. 38 not a sample from this SDG p. 39 PZ-1D Hg = 93, 96% RPD = 3
	X		**Total metals vs dissolved metals (RPD < 20% or diff. < RL)** No dissolved results in these SDGs
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)** Checked all samples in this SDG - OK *No dilutions in this SDG for Hg*

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 20
Project No: 6122160170.2303.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92689423 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 10/24/23 **Senior Reviewer/Date:** J. Hartness 10/25/23

YES NO NA COMMENTS

No samples in this SDG required a dilution

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace

X **Sample Preservation and cooler temperature met (Cool to 6˚C)**
Temps. = 4.6, 6.0, 6.0, 5.4, 5.8˚C – OK

X **Holding times met (28 days)**
Coll: 09/19/23 – 09/21/23 Anal: 09/23/23, 09/24/23, 09/26/23

X **QC Blanks Review – Any detections above RL?**
Method Blanks:
p. 42 MB 4152151 = ND p. 43 MB 4152157= ND
p. 44 MB 4155022 = ND

Field/Equipment Blanks:
EB-01 and EB-02 = ND
FB-01 and FB-02 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**
p. 42 LCS 4152152 = All OK p. 43 LCS 4152158 = All OK
p. 44 LCS 4155023 = All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

Constituent	**PZ-33** (mg/L)	**FD-1** (mg/L)	RPD/Diff & RL
Cl	2.8	2.7	3.6
F	0.074J	0.074J	0.000 0.1
SO_4	34.8	34.4	1.2

Constituent	**PZ-57** (mg/L)	**FD-2** (mg/L)	RPD/Diff & RL
Cl	2.0	2.0	0.0
F	0.074J	0.18	0.104 0.1
			Flag fluoride for FD-2 J
SO_4	66.7	65.5	1.8

X **Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**
p. 42 and 44 - not samples from this SDG
p. 43 PZ-19 - %Recs and RPDs OK except:
SO_4 = 86, 89% RPD = 1 ***Flag assoc. result J***

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked all samples in this SDG - OK

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 20
Project No: 6122160170.2303.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92689423 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 10/24/23 **Senior Reviewer/Date:** J. Hartness 10/25/23

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (Cool 6˚C±2)** Temps. = 4.6, 6.0, 6.0, 5.4, 5.8˚C – OK
X			**Holding times met (TDS = 7 days)** Coll: 09/19/23 – 09/21/23 Anal: 09/26/23 - OK
X			**QC Blanks Review – any MB results above RL?** Method Blanks: p. 40 MB 4154549 = ND p. 41 MB 4155352 = ND Field/Equipment Blanks: EB-01, EB-02 = ND FB-01, FB-02= ND
X			**Laboratory Control Sample (LCS) recovery within limits** p. 40 LCS 4154550 TDS = 95% p. 41 LCS 4155353 TDS = 101%
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

Constituent	**PZ-33** (mg/L)	**FD-1** (mg/L)	RPD/Diff & RL
TDS	300	336	11.3
Constituent	**PZ-57** (mg/L)	**FD-2** (mg/L)	RPD/Diff & RL
TDS	311	304	2.3

Lab Duplicates:
p. 40 *PZ-1D RPD = 1*
p. 41 PZ-7D RPD = 2
p. 41 PZ-33 RPD = 6
No evaluation of non-project MS/MSDs

	X		**Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)** Not applicable to TDS
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)** Checked all samples in this SDG, OK *No samples in this SDG required a dilution.*

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #20 - Radium
WSP Project Number: 6122160170.2303.****
Site: Ash Ponds AP-A, AP-1, and AP-2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG No: 92689424

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #20 (September 2023) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to WSP USA Environment & Infrastructure Inc. (WSP) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW9315 and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for metals, anions, and total dissolved solids (TDS) and reported separately in SDG 92689423. Samples were sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	09/19/23	II	MIT-PZ-31	09/19/23	II
MIT-PZ-2D	09/19/23	II	MIT-PZ-32	09/19/23	II
MIT-PZ-7D	09/20/23	II	MIT-PZ-33	09/21/23	II
MIT-PZ-14	09/20/23	II	MIT-PZ-57	09/21/23	II
MIT-PZ-15	09/20/23	II	**QC Samples**		
MIT-PZ-16	09/19/23	II	MIT-APA12-EB-01	09/20/23	II
MIT-PZ-17	09/20/23	II	MIT-APA12-EB-02	09/21/23	II
MIT-PZ-18	09/20/23	II	MIT-APA12-FB-01	09/19/23	II
MIT-PZ-19	09/20/23	II	MIT-APA12-FB-02	09/20/23	II
MIT-PZ-23A	09/20/23	II	MIT-APA12-FD-01	09/21/23	II
MIT-PZ-25	09/19/23	II	MIT-APA12-FD-02	09/21/23	II

These samples were collected from Ash Ponds AP-A, AP-1, and AP-2 between September 19 and September 21, 2023. Sample MIT-APA12-FD-1 is a field duplicate of MIT-PZ-33, and MIT-APA12-FD-2 is a field duplicate of MIT-PZ-57. The field QC blanks include samples MIT-APA12-FB-1 and MIT-APA12-FB-2 (field blanks) and MIT-APA12-EB-1 and MIT-APA12-EB-2 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQuIS database as instructed by GPC by adding the sample type code (WG [groundwater], WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20230920]); example: *MIT-PZ-18-WG-20230920*.

The analytical results for the radium data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Radium (SW9315/SW9320)

The samples were submitted to Pace for radium-226 (Ra-226), radium-228 (Ra-228) by Methods SW9315 and SW9320, and total radium by calculation. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks did not contain reportable concentrations of radium above the minimum detectable concentration (MDC).

Laboratory Control Sample (LCS)

The LCS recoveries were within QC limits.

Laboratory Duplicate Precision

A laboratory duplicate was performed on sample PZ-18 for Ra-226 and the RPD was within QC limits.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Total radium, Ra-226, and Ra-228 were not detected above the MDC in duplicate pair MIT-APA12-FD-1 / MIT-PZ-33, indicating acceptable precision. Radium-226 was detected in the parent sample MIT-PZ-57 but was not detected above the MDC in MIT-APA12-FD-2; therefore, the RPD could not be calculated (RPDs are only evaluated for results greater than 5 times the MDC).

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The equipment blanks EB-1 and EB-2 and field blanks, FB-1 and FB-2 did not contain Ra-226, Ra-228, or total radium above the MDC.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries were within QC limits for the samples in this SDG.

Reporting Limits/Minimum Detectable Concentrations

The RLs (MDCs) were below the screening level of 5 pCi/L for samples submitted for the analysis of radium-226 and radium-228 by Methods SW9315 and SW9320.

Sample results in which the values were reported at concentrations below the MDC were flagged "U" and considered not detected.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment, and the data are usable without qualification.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: DWK 10/24/23
Checked By/Date: JAH 10/25/23

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92689424
SAMPLING DATES:SEPTEMBER 19 - 21, 2023
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
No qualification necessary										

Notes:
No qualification was required for the data reported in this sample delivery group.

Prepared by/Date: DWK 10/24/23
Checked by/Date: JAH 10/25/23

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 19
Project No: 6122160170.2303.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92689424 (Pace-Greensburg, PA)
Reviewer/Date: D. Knaub 10/24/23 **Senior Reviewer/Date:** J. Hartness 10/25/23

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2)** 4.6, 6.0, 6.0, 5.4, 5.8˚C - OK
X			**Holding times met (180 days)** Collected: 09/19/23 – 09/21/23 Analyzed: Ra-226: 10/10/23, 10/17/23 Analyzed: Ra-228: 10/06/23, 10/11/23 Total Ra: 10/11/23, 10/17/23
X			**QC Blanks Review (net blank value <MDC)** p. 33 Ra-226 (3013327) = present but <MDC p. 34 Ra-226 (3025002) = present but <MDC p. 35 Ra-228 (3018973) = present but <MDC p. 36 Ra-228 (3013986) = present but <MDC Field/Equipment Blanks: p. 16 FB-1 = present but <MDC p. 28 FB-2 = present but <MDC p. 23 EB-1 = present but <MDC p. 29 EB-1 = present but <MDC
X			**Laboratory Control Sample (LCS) recovery within lab limits (60-135%)** p. 56 Ra-228 = 101.02, 111.82% RPD = 10.15 p. 57 Ra-228 = 101.05, 88.36% RPD = 13.4 p. 58 Ra-226 = 103.37, 90.28% RPD = 13.5 p. 59 Ra-226 = 96.1, 89.88% RPD = 8.75
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)* Constituent PZ-33 (pCi/L) FD-1 (pCi/L) RPD *Radium not detected above the MDC* Constituent PZ-57 (pCi/L) FD-2 (pCi/L) RPD Ra-226 0.343 < 0.299 NC Lab dups: p. 58 PZ-18 Ra-226 RPD = 6.83
		X	**Matrix Spike recoveries and RPDs within limits (if applicable)** None in this SDG

YES	NO	NA	COMMENTS
X			**Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba); Ra-228 (Carrier Ba, Tracer: Y) (30-110%)** Included on results pages - OK
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**. Checked all samples in this SDG - OK

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #21
WSP Project Number: US-EI-6122160170.2404.**
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG No: 92715972

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #21 (February 2024) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in United States Environmental Protection Agency (USEPA) Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in these SDGs are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data packages, as submitted to WSP USA Environment & Infrastructure Inc. (WSP), formerly Wood Environment & Infrastructure Solutions, Inc. (Wood) are complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW6010D, SW7470A, SM2540C, and EPA 300.0.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for Appendix III and Appendix IV metals (antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Methods SW6020B and SW6010D (calcium only), mercury by Method SW7470A, anions (chloride, fluoride, and sulfate) by Method 300.0, and total dissolved solids (TDS) by Method SM2540C. Anions and TDS were analyzed by Pace-Asheville, North Carolina. These data are reported in this SDG: 92715972.

Samples were also sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320. The radium data were reported in SDG 92715974 and validated separately.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

SDG 92715972:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	02/28/24	II	MIT-PZ-31	02/28/24	II
MIT-PZ-2D	02/27/24	II	MIT-PZ-32	02/27/24	II
MIT-PZ-7D	02/28/24	II	MIT-PZ-33	02/29/24	II
MIT-PZ-14	02/29/24	II	MIT-PZ-57	02/29/24	II
MIT-PZ-15	02/28/24	II	**QC Samples**		
MIT-PZ-16	02/29/24	II	MIT-APA12-EB-01	02/27/24	II
MIT-PZ-17	02/29/24	II	MIT-APA12-EB-02	02/29/24	II
MIT-PZ-18	02/29/24	II	MIT-APA12-FB-01	02/28/24	II
MIT-PZ-19	02/29/24	II	MIT-APA12-FB-02	02/29/24	II
MIT-PZ-23A	02/28/24	II	MIT-APA12-FD-01	02/29/24	II
MIT-PZ-25	02/27/24	II	MIT-APA12-FD-02	02/28/24	II

These samples were collected from Ash Ponds AP-A, AP-1 and AP-2 between February 27 and February 29, 2024. Sample MIT-APA12-FD-01 is a field duplicate of MIT-PZ-19, and MIT-APA12-FD-02 is a field duplicate of MIT-PZ-23A. The field QC blanks include samples MIT-APA12-FB-01 and MIT-APA12-FB-02 (field blanks) and MIT-APA12-EB-01 and MIT-APA12-EB-02 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQuIS database as instructed by GPC by adding the sample type code (WG [groundwater] or WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20230214]); example: *MIT-PZ-14-WG-20240229*.

The analytical results for metals, mercury, anions, and TDS are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Metals (SW6020B and SW6010D)

The samples were submitted to Pace for CCR Appendix III and Appendix IV metals by Methods SW6010D and SW6020B. The CCR Appendix III metals for this event are: boron (B) and calcium (Ca). The Appendix IV metals for this event are antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), lithium (Li), molybdenum (Mo), selenium (Se), and thallium (Tl). Each of the Level II components were within laboratory QC limits except for the method, field, and equipment blanks, and MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One of the method blanks associated with the samples analyzed within this SDG contained a reportable concentration of antimony between the detection and reporting limits. Associated positive results may be considered biased high or false positive.

> *Action: The antimony results for samples MIT-PZ-1D, MIT-PZ-2D, MIT-PZ-7D, and MIT-PZ-31, were qualified as not detected based on blank data (false positive) and flagged "U*".*

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on samples MIT-PZ-1D, MIT-PZ-23A, and MIT-PZ-57. The recoveries and RPDs were within QC limits except for calcium in MIT-PZ-23A. However, no qualification was necessary because calcium was detected in the parent sample at greater than 4 times the spike concentration.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. Equipment rinsate blanks are collected to monitor the decontamination process and field blanks are collected to assess the water used to decontaminate the equipment and the containers into which samples are placed. Samples MIT-APA12-FB-01 and MIT-APA12-FB-02 are field blanks and are associated with samples MIT-PZ-23A and MIT-PZ-19/MIT-APA12-FD01, respectively. Samples MIT-APA12-EB-01 and MIT-APA12-EB-02 are equipment blanks. MIT-APA12-EB-01 is an equipment blank of the discharge tubing for dedicated bladder pumps and MIT-APA12-EB-02 is the equipment blank associated with monitoring well MIT-PZ-57. Each of the field and equipment blanks contained a reportable detection of molybdenum between the detection and reporting limits, and associated results may be considered biased high or false positive.

> *Action: The molybdenum results for samples MIT-PZ-1D, MIT-PZ-2D, MIT-PZ-19, and MIT-APA12-FD-01 were qualified as not detected based on blank data (false positive) and flagged "U*".*

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Methods SW6010D and SW6020B.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator unless overridden by qualification for other QC criteria.

Mercury (SW7470A)

The samples were submitted to Pace for mercury by Method SW7470A. Each of the Level II components were within laboratory QC limits.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG did not contain reportable detections of mercury.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCS.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on samples MIT-PZ-1D and MIT-PZ-33, and the recoveries and RPDs were within QC limits.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event. The RPD could not be calculated because mercury was not detected in either the parent or duplicate samples, indicating acceptable precision.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Mercury was not detected in the equipment blanks or the field blanks.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of mercury by USEPA Method SW7470A. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates, however there were none in this SDG.

Anions (EPA 300.0)

The samples were submitted to Pace for anions (chloride, fluoride, and sulfate) by Method 300.0. Each of the Level II components were within laboratory QC limits except for MS/MSD recoveries.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blanks associated with the samples analyzed within this SDG contained no reportable detections of anions.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD analysis was performed on samples MIT-PZ-1D, MIT-PZ-25, and MIT-PZ-19, and the MS and MSD recoveries for sulfate were below the lower QC limit in sample MIT-PZ-19.

> *Action: The sulfate results for samples MIT-PZ-19 and its field duplicate, MIT-APA12-FD-01, were qualified as estimated and flagged "J".*

Field Duplicate Precision

As previously noted, two blind field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved for both duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Anions were not detected in the equipment blanks or the field blanks.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of anions by USEPA Method 300.0. Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory. The "J" qualifier is maintained by the data validator.

TDS (SM2540C)

The samples were submitted to Pace for TDS by Method SM2540C. Each of the Level II components were within QC limits except.

Holding Times

The sample analyses were performed within the 7-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG did not contain TDS.

Laboratory Control Sample (LCS)

Percent recoveries for target analytes were within quality control limits in the LCSs.

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed on project samples MIT-APA12-FB-01 and MIT-APA12-EB-02, and the RPDs could not be calculated because anions were not detected in either sample. Additionally, laboratory duplicate analyses were performed on project sample MIT-PZ-17, and the RPD was within QC limits.

Field Duplicate Precision

As previously noted, two field duplicate sample pairs were collected and submitted to the laboratory for this sampling event, and acceptable duplicate precision was achieved for both

duplicate pairs.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

TDS was not detected in the equipment or field blanks.

Reporting Limits

The laboratory RL was below the screening value of 500 mg/L for samples submitted for the analysis of TDS by Method SM2540C and no samples required dilutions; therefore, RLs were met for this project.

Additionally, data are evaluated down to the MDL and results reported between the MDL and RL are considered quantitative estimates. Results reported between the MDL and RL were qualified as estimated and flagged "J" by the laboratory; however, there were none reported in this SDG.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: DWK 03/28/24
Checked By/Date: JAH 04/04/24

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92715972
SAMPLING DATES: February 27 - 29, 2024
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
MIT-PZ-1D	PZ-1D	N	92715972	SW6020B	antimony	0.00059	J,B	U*	BL	mg/L
MIT-PZ-1D	PZ-1D	N	92715972	SW6020B	molybdenum	0.00083	J	U*	BE	mg/L
MIT-PZ-2D	PZ-2D	N	92715972	SW6020B	antimony	0.00073	J,B	U*	BL	mg/L
MIT-PZ-2D	PZ-2D	N	92715972	SW6020B	molybdenum	0.00069	J	U*	BE	mg/L
MIT-PZ-7D	PZ-7D	N	92715972	SW6020B	antimony	0.00089	J,B	U*	BL	mg/L
MIT-PZ-31	PZ-31	N	92715972	SW6020B	antimony	0.0025	J,B	U*	BL	mg/L
MIT-PZ-19	PZ-19	N	92715972	E300.0	sulfate	71.5	M1	J	M-	mg/L
MIT-PZ-19	PZ-19	N	92715972	SW6020B	molybdenum	0.0018	J	U*	BE, BF	mg/L
MIT-APA12-FD-01	PZ-19	FD	92715972	E300.0	sulfate	71.6		J	M-	mg/L
MIT-APA12-FD-01	PZ-19	FD	92715972	SW6020B	molybdenum	0.0020	J	U*	BE, BF	mg/L

Notes:
Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by other DQE qualifiers.

Laboratory Qualifiers:
B = Analyte was detected in the associated method blank.
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
M1 =Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Reason Codes:
BE = Equipment blank contamination. The result should be considered biased high.
BF = Field blank contamination. The result should be considered "not-detected".
BL = Laboratory blank contamination. The result should be considered "not-detected".
M- = MS and MSD recoveries outside acceptance limits. The result may be biased low.

Validation Qualifiers:
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only. The associated numerical value is the approximate concentration of the analyte in the sample.
U* = This analyte should be considered “not-detected” because it was detected in an associated blank at a similar level.

Prepared by/Date: DWK 03/28/24
Checked by/Date: JAH 04/04/24

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 21
Project No: US-EI-6122160170.2404.****
Method: Metals by SW6010D/SW6020B
Laboratory and Lot: Pace SDG: 92715972 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/28/24 **Senior Reviewer/Date:** J. Hartness 04/04/24

YES	NO	NA	COMMENTS

No samples in this SDG required a dilution.

X **Case Narrative and COC Completeness Review**

No case narrative is included with Level II data package from Pace.

X **Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6˚C±2)**

Temps. = 2.7, 5.5, 3.3, 3.2, 4.6˚C - OK
1 cooler receipt form (p. 58) was missing temperature measurement, however, samples NOT marked out of temperature range - no *flags.*

X **Holding times met (180 days)**

Coll: 02/27/24 – 02/29/24
6010 – Prep: 03/01/24 Anal: 03/05/24
6020 – Prep: 03/02/24 Anal: 03/07/24, 03/12/24, 03/13/24

X **QC Blanks Review – any MB results above RL?**

Method Blanks:
p. 32 SW6010D MB 4319841 (Ca only) = ND
p. 33 SW6010D MB 4320291 (Ca only) = ND

p. 34 SW6020B MB 4319833 ND except:
Sb = 0.00055 J x 10 = **0.0055 mg/L**
Flag U*: *MIT-PZ-1D, MIT-PZ-31, MIT-PZ-7D, MIT-PZ-2D*
p. 36 SW6020B MB 4320449 = ND

Field/Equipment Blanks:
MIT-APA12-FB-01 Mo = 0.0012 J x10 = **0.012 mg/L**
MIT-APA12-FB-02 Mo = 0.0012 J x10 = **0.012 mg/L**
MIT-APA12-EB-01 Mo = 0.0012 J x10 = **0.012 mg/L**
MIT-APA12-EB-02 Mo = 0.0012 J x10 = **0.012 mg/L**
Flag U*: *MIT-PZ-1D, MIT-PZ-2D, MIT-PZ-19, MIT-APA12-FD-01*

X **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**

p. 32 SW6010D LCS 4319842 – Ca =102% OK
p. 33 SW6010D LCS 4320292 – Ca =102% OK

p. 34 SW6020B LCS 4319834 – All OK
p. 36 SW6020B LCS 4320450 – All OK

Metals (SW6010D/6020B) continued:

YES	NO	NA	COMMENTS

X

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

Constituent	**MIT-PZ-19** (mg/L)	**MIT-APA12-FD-01** (mg/L)	RPD/Diff & RL
Ca	146	146	0.0
Ba	0.051	0.050	2.0
B	0.43	0.43	0.0
Li	0.012 J	0.012 J	0.0000 0.03
Mo	0.0018 J	0.0020 J	0.0002 0.01
Se	0.0043 J	0.0040 J	0.0003 0.005
Tl	0.00050 J	0.00047 J	0.00003 0.001
Constituent	**MIT-PZ-23A** (mg/L)	**MIT-APA12-FD-02** (mg/L)	RPD/Diff & RL
Ca	144	138	4.3
Ba	0.036	0.035	2.8
B	0.12	0.11	8.7
Cr	0.0020 J	0.0021 J	0.0001 0.005
Se	0.0018 J	0.0019 J	0.0001 0.005

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).

No lab dups for metals

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 32 SW6010D (Ca only) **– MIT-*PZ-23A*** –*Ca* = -508, -23% RPD = 3 *No flag, sample > 4x spike*
p. 33 SW6010D (Ca only) – not a sample from this SDG

p. 34-35 SW6020B ***MIT-PZ-1D*** - All %rec and RPDs OK
p. 36-37 SW6020B - ***MIT-PZ-57*** - All %rec and RPDs OK

X **Post Digestion Spike recoveries within limits (if applicable: 80-120%)**
Not reported for L2 data package

X **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**
No dissolved results in this SDG

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked all samples in this SDG - OK

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 21
Project No: US-EI-6122160170.2404.****
Method: Hg by SW7470A
Laboratory and Lot: Pace SDG: 92715972 (Pace – Peachtree Corners, GA)
Reviewer/Date: D. Knaub 03/28/24 **Senior Reviewer/Date:** J. Hartness 04/04/24

YES NO NA COMMENTS

No samples in this SDG required a dilution.

X **Case Narrative and COC Completeness Review**

No case narrative is included with Level II data package from Pace.

X **Sample Preservation and cooler temperature met (HNO_3 to pH<2; 6˚C±2)**

Temps. = 2.7, 5.5, 3.3, 3.2, 4.6˚C - OK
1 cooler receipt form (p. 58) was missing temperature measurement, however, samples NOT marked out of temperature range - no *flags*

X **Holding times met (Hg = 28 days)**

Coll: 02/27/24 – 02/29/24; Prep: 03/14/24 Anal: 03/15/24

X **QC Blanks Review – any MB results above RL?**

Method Blanks:
p. 38 MB 4334515 Hg = ND p. 39 MB 4335088 Hg = ND

Field/Equipment Blanks:
MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND
MIT-APA12-EB-01 and MIT-APA12-EB-02 = ND

X **Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg = 80-120%)**

p. 38 LCS 4334516 Hg = 92%; p. 39 LCS 4335089 Hg = 100%

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

	MIT-PZ-19 (mg/L)	**MIT-APA12-FD-01** (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA
	MIT-PZ-23A (mg/L)	**MIT-APA12-FD-02** (mg/L)	RPD/Diff & RL
Hg	ND	ND	NA

No lab dups for Hg

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**

p. 38 MIT-PZ-1D Hg = 94, 86% RPD = 8 OK
p. 39 MIT-PZ-33 Hg = 100, 97% RPD = 4 OK

X **Total metals vs dissolved metals (RPD < 20% or diff. < RL)**

No dissolved results in these SDGs

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Checked all samples in this SDG - OK
No dilutions in this SDG for Hg

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 21
Project No: US-EI-6122160170.2404.****
Method: Anions (chloride, fluoride, sulfate) by EPA 300
Laboratory and Lot: Pace SDG: 92715972 (Analyzed @ Pace – Asheville, NC)
Reviewer/Date: D. Knaub 03/28/24 **Senior Reviewer/Date:** J. Hartness 04/04/24

YES NO NA COMMENTS

No samples in this SDG required a dilution

X **Case Narrative and COC Completeness Review**

No case narrative is included with Level II data package from Pace

X **Sample Preservation and cooler temperature met (Cool to 6˚C)**

Temps. = 2.7, 5.5, 3.3, 3.2, 4.6˚C - OK
1 cooler receipt form (p. 58) was missing temperature measurement, however, samples NOT marked out of temperature range - no *flags*

X **Holding times met (28 days)**

Coll: 02/27/24 – 02/29/24 Anal: 03/01/24, 03/04/24, 03/05/24

X **QC Blanks Review – Any detections above RL?**

Method Blanks:
p. 45 MB 4318691 = ND p. 46 MB 4320496= ND
p. 47 MB 4321306 = ND

Field/Equipment Blanks:
MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND
MIT-APA12-EB-01 and MIT-APA12-EB-02 = ND

X **Laboratory Control Sample (LCS) recovery within lab limits (90-110%)**

p. 45 LCS 4318692 – All OK p. 46 LCS 4320497 – All OK
p. 47 LCS 4321307 – All OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**

Constituent	**MIT-PZ-19** (mg/L)	**MIT-APA12-FD-01** (mg/L)	RPD/Diff & RL	
Cl	3.3	3.3	0.0	
F	0.078 J	0.080 J	0.002	0.1
SO_4	71.5	71.6	0.14	
Constituent	**MIT-PZ-23A** (mg/L)	**MIT-APA12-FD-02** (mg/L)	RPD/Diff & RL	
Cl	3.6	3.6	0.0	
F	0.070 J	0.070 J	0.0	0.1
SO_4	33.5	33.6	0.3	

In cases where results are less than the RL (lab "J" values), all differences between the parent sample and the duplicate were less than the RL per GP guidance and no flag is necessary other than to indicate the result is less than the RL (J).

X **Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)**

p. 45 MIT-PZ-1D - OK MIT-PZ-25 – OK
p. 46 not samples from this SDG
p. 47 MIT-PZ-19 - OK except SO_4 = 79, 75% RPD = 2 ***Flag J : PZ-19 & FD-01***

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Checked all samples in this SDG - OK

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 21
Project No: US-EI-6122160170.2404.****
Method: TDS by SM2540C
Laboratory and Lot: Pace SDG: 92715972 (Analyzed @ Pace – Asheville, NC)
Reviewer/Date: D. Knaub 03/28/24 **Senior Reviewer/Date:** J. Hartness 04/04/24

YES	NO	NA	COMMENTS

No samples in this SDG required a dilution.

X **Case Narrative and COC Completeness Review**
No case narrative is included with Level II data package from Pace.

X **Sample Preservation and cooler temperature met (Cool 6˚C±2)**
Temps. = 2.7, 5.5, 3.3, 3.2, 4.6˚C - OK
1 cooler receipt form (p. 58) was missing temperature measurement, however, samples NOT marked out of temperature range - no *flags*

X **Holding times met (TDS = 7 days)**
Coll: 02/27/24 – 02/29/24 Anal: 03/03/24, 03/04/24, 03/05/24, 03/07/24 - OK

X **QC Blanks Review – any MB results above RL?**
Method Blanks:
p. 40 MB 4320659 = ND
p. 41 MB 4320734 = ND
p. 42 MB 4321652 = ND
p. 43 MB 4322451 = ND
p. 44 MB 4324573 = ND

Field/Equipment Blanks:
MIT-APA12-FB-01 and MIT-APA12-FB-02 = ND
MIT-APA12-EB-01 and MIT-APA12-EB-02 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 40 LCS 4320660 TDS = 102%
p. 41 LCS 4320735 TDS = 102%
p. 42 LCS 4321653 TDS = 105%
p. 43 LCS 4322452 TDS = 97%
p. 44 LCS 4324574 TDS = 103%

X **Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)**

Constituent	**MIT-PZ-19** (mg/L)	**MIT-APA12-FD-01** (mg/L)	RPD/Diff & RL
TDS	470	477	1.5
Constituent	**MIT-PZ-23A** (mg/L)	**MIT-APA12-FD-02** (mg/L)	RPD/Diff & RL
TDS	430	425	1.2

Lab Duplicates:
p. 40, 42, *Not samples from this SDG*
p. 41 MIT-APA12-FB-01 both results ND – OK
p.43 MIT-PZ-17 RPD = 1 OK
p. 44 MIT-APA12-EB-02 both results ND - OK

X **Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)**
Not applicable to TDS

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**
Checked all samples in this SDG, OK

Data Evaluation Narrative
Project: Plant Mitchell CCR Groundwater Semiannual Event #21 - Radium
WSP Project Number: US-EI-6122160170.2404.**
Site: Ash Ponds AP-A, AP-1, and AP-2 - Plant Mitchell, Georgia
Matrix: Groundwater

Pace SDG No: 92715974

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #21 (February 2024) conducted at Ash Ponds AP-A, AP-1, and AP-2 at Plant Mitchell, located in Albany, Georgia. The samples were collected and analyzed per the protocols presented in the *Draft* Plant Mitchell *Field Sampling Plan* (FSP) (SCS, 2016). The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, method blanks, laboratory control samples (LCSs), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), post digestion spikes (PDS), where applicable, laboratory and field duplicate RPDs, field and/or equipment blanks, and reporting limits. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and laboratory data report agree.

The data were reviewed using the laboratory's precision and accuracy limits, the method requirements, and any requirements listed in the FSP. It should be noted that at the time of this review, a finalized QAPP was not provided. DQE data qualifications were applied, if necessary, using the procedures in USEPA Region IV Data Validation Standard Operating Procedures (USEPA, 2011) and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2020), as guidance, and professional judgment using the following qualifiers:

Qualifier	Usable Data
J	The analyte was positively identified but the result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. *SCS Definition: Value J indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce as reliable of a value. Therefore, the value displayed (value J) is qualified by the laboratory as estimated.*
UJ	The analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. The reported method detection limit is approximate and may be inaccurate or imprecise.
U	Analyte was analyzed for but was not detected above the level of the reported sample reporting/method detection limit. *Note: SCS does not use the "U" flag except when reporting results for radium that are detected below the Minimum Detection Concentration (MDC).*
U*	This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Qualifier	Unusable Data
R	The sample results are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be confirmed and the data are unusable.
UR	The analyte was analyzed for but was not detected above the level of the reported sample reporting or method detection, however the data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The analyte may or may not be present in the sample.

The analytical results for the samples reported in this SDG are usable with the qualifications discussed in this narrative. A summary of the data with associated qualifiers is presented in **Table 1**.

Deliverables

The data package as submitted to WSP USA Environment & Infrastructure Inc. (WSP) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW9315 and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for metals, anions, and total dissolved solids (TDS) and reported separately in SDG 92715972. Samples reported in this SDG were sent from Pace's Georgia facility to their laboratory in Greenburg, Pennsylvania and analyzed for radium-226, radium-228, and total radium by Methods SW9315 and SW9320.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range and preservation requirements. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following groundwater and quality control (QC) samples:

GPC Sample ID	Sample Date	DQE Level	GPC Sample ID	Sample Date	DQE Level
MIT-PZ-1D	02/28/24	II	MIT-PZ-31	02/28/24	II
MIT-PZ-2D	02/27/24	II	MIT-PZ-32	02/27/24	II
MIT-PZ-7D	02/28/24	II	MIT-PZ-33	02/29/24	II
MIT-PZ-14	02/29/24	II	MIT-PZ-57	02/29/24	II
MIT-PZ-15	02/28/24	II	**QC Samples**		
MIT-PZ-16	02/29/24	II	MIT-APA12-EB-01	02/27/24	II
MIT-PZ-17	02/29/24	II	MIT-APA12-EB-02	02/29/24	II
MIT-PZ-18	02/29/24	II	MIT-APA12-FB-01	02/28/24	II
MIT-PZ-19	02/29/24	II	MIT-APA12-FB-02	02/29/24	II
MIT-PZ-23A	02/28/24	II	MIT-APA12-FD-01	02/29/24	II
MIT-PZ-25	02/27/24	II	MIT-APA12-FD-02	02/28/24	II

These samples were collected from Ash Ponds AP-A, AP-1, and AP-2 between February 27 and February 29, 2024. Sample MIT-APA12-FD-01 is a field duplicate of MIT-PZ-19, and MIT-APA12-FD-02 is a field duplicate of MIT-PZ-23A. The field QC blanks include samples MIT-APA12-FB-01 and MIT-APA12-FB-02 (field blanks) and MIT-APA12-EB-01 and MIT-APA12-EB-02 (equipment blanks). The sample IDs were modified by WSP for inclusion in the EQuIS database as instructed by GPC by adding the sample type code (WG [groundwater], WQ [water quality]) and the sample date (YYYYMMDD [i.e., 20240229]); example: *MIT-PZ-14-WG-20240229*.

The analytical results for the radium data are usable with the qualifications discussed in this narrative. A summary of the data quality is presented below.

Radium (SW9315/SW9320)

The samples were submitted to Pace for radium-226 (Ra-226), radium-228 (Ra-228) by Methods SW9315 and SW9320, and total radium by calculation. Each of the Level II components were within QC limits.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The method blanks did not contain reportable concentrations of radium above the minimum detectable concentration (MDC).

Laboratory Control Sample (LCS)

The LCS recoveries were within QC limits.

Laboratory Duplicate Precision

Laboratory duplicates were performed on samples MIT-PZ-18 and MIT-PZ-33 for Ra-226 and the RPDs were not calculated because the results were less than the MDC.

Field Duplicate Precision

As previously noted, two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Total radium, Ra-226, and Ra-228 were not detected above the MDC in either duplicate pair (MIT-APA12-FD-01 / MIT-PZ-19 or MIT-APA12-FD-02 / MIT-PZ-23A) indicating acceptable precision.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The equipment blanks MIT-APA12-EB-01 and MIT-APA12-EB-02 and field blanks, MIT-APA12-FB-01 and MIT-APA12-FB-02 did not contain Ra-226, Ra-228, or total radium above the MDC.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries were within QC limits for the samples in this SDG.

Reporting Limits/Minimum Detectable Concentrations

The RLs (MDCs) were below the screening level of 5 pCi/L for samples submitted for the analysis of radium-226 and radium-228 by Methods SW9315 and SW9320.

Sample results in which the values were reported at concentrations below the MDC were flagged "U" and considered not detected.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan. DQE flags were not applied or edited based on professional judgment, and the data are usable without qualification.

References

SCS, 2016. *Draft Field Sampling Plan – Plant Mitchell*, Georgia Power Company, Earth Science and Environmental Engineering Technical Services, Southern Company Services, Inc. (SCS), August 17, 2016.

US EPA, 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA, 2020. *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, Final, EPA-542-R-20-006, November 2020.

Prepared by/Date: DWK 04/01/24
Checked By/Date: JAH 04/04/24

TABLE 1
SUMMARY OF DATA QUALIFIERS

TABLE 1
SUMMARY OF DATA QUALIFIERS
SAMPLE DELIVERY GROUP 92715974
SAMPLING DATES: FEBRUARY 27 - 29, 2024
Plant Mitchell Ash Ponds AP-A, AP-1 and AP-2

Field Sample ID	Location ID	Type	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
No qualification necessary										

Notes:
No qualification was required for the data reported in this sample delivery group.

Prepared by/Date: DWK 04/01/24
Checked by/Date: JAH 04/04/24

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: Plant Mitchell CCR Semiannual Event 21
Project No: US-EI-6122160170.2404.****
Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320
Laboratory and Lot: Pace SDG: 92715974 (Pace-Greensburg, PA)
Reviewer/Date: D. Knaub 04/01/24 **Senior Reviewer/Date:** J. Hartness 04/04/24

YES	NO	NA	COMMENTS
X			**Case Narrative and COC Completeness Review** No case narrative is included with Level II data package from Pace.
X			**Sample Preservation and cooler temperature met (HNO_3 to pH<2)** Temps. = 5.5, 2.7, 3.3, 3.2, 4.6˚C - OK 1 cooler receipt form (p. 40) was missing temperature measurement, however samples NOT marked out of temperature range - no *flags*
X			**Holding times met (180 days)** Collected: 02/27/24 – 02/29/24 Analyzed: Ra-226: 03/19/24, 03/21/24 Analyzed: Ra-228: 03/15/24, 03/19/24 Total Ra: 03/20/24, 03/22/24
X			**QC Blanks Review (net blank value <MDC)** p. 33 Ra-228 (3182111) = present but <MDC p. 34 Ra-228 (3179471) = present but <MDC p. 35 Ra-226 (3180688) = present but <MDC p. 36 Ra-226 (3180690) = present but <MDC Field/Equipment Blanks: p. 15 MIT-APA12-FB-01 = present but <MDC p. 19 MIT-APA12-EB-01 = present but <MDC p. 23 MIT-APA12-FB-02 = present but <MDC p. 26 MIT-APA12-EB-02 = present but <MDC
X			**Laboratory Control Sample (LCS) recovery within lab limits (60-135%)** p. 58 Ra-228 = 111.05, 95.66% RPD = 14.89 p. 59 Ra-228 = 99.69, 80.96% RPD = 20.74 p. 60 Ra-226 = 100.85, 92.53% RPD = 8.60 p. 61 Ra-226 = 105.19, 103.44% RPD = 1.68
X			**Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples** *(RPD = RER (2σ) <3)* Constituent MIT-PZ-19 (pCi/L) MIT-APA12-FD-01 (pCi/L) RPD *Radium not detected above the MDC* Constituent MIT-PZ-23A (pCi/L) MIT-APA12-FD-02 (pCi/L) RPD *Radium not detected above the MDC* Lab dups: p. 60 MIT-PZ-18 Ra-226 RPD NC (results < MDC) Lab dups: p. 61 MIT-PZ-33 Ra-226 RPD NC (results < MDC)

YES	NO	NA	COMMENTS
		X	**Matrix Spike recoveries and RPDs within limits (if applicable)** None in this SDG
X			**Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);** **Ra-228 (Carrier Ba, Tracer: Y) (30-110%)** Included on results pages - OK
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**. Checked all samples in this SDG - OK

APPENDIX C
FIELD SAMPLING DATA
SEPTEMBER 2023

Low-Flow Test Report:

Test Date / Time: 9/19/2023 10:22:01 AM
Project: Plant Mitchell CCR
Operator Name: Terrell Parker

Location Name: MIT-PZ-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 71 ft** **Total Depth: 81 ft** **Initial Depth to Water: 55.07 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 8500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.78 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1105

Weather Conditions:
Clear, sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/19/2023 10:22 AM	00:00	7.23 pH	24.03 °C	278.77 µS/cm	6.25 mg/L	6.61 NTU	15.4 mV	55.07 ft	200.00 ml/min
9/19/2023 10:27 AM	05:00	7.37 pH	21.59 °C	254.66 µS/cm	3.40 mg/L	3.37 NTU	42.9 mV	56.81 ft	200.00 ml/min
9/19/2023 10:32 AM	10:00	7.41 pH	21.22 °C	252.83 µS/cm	3.37 mg/L	2.55 NTU	67.2 mV	57.08 ft	200.00 ml/min
9/19/2023 10:37 AM	15:00	7.39 pH	21.15 °C	249.66 µS/cm	2.83 mg/L	0.97 NTU	69.4 mV	57.08 ft	200.00 ml/min
9/19/2023 10:42 AM	20:00	7.40 pH	21.41 °C	250.83 µS/cm	2.66 mg/L	1.07 NTU	65.9 mV	56.95 ft	200.00 ml/min
9/19/2023 10:47 AM	25:00	7.42 pH	21.43 °C	253.73 µS/cm	2.65 mg/L	0.79 NTU	48.6 mV	56.85 ft	200.00 ml/min
9/19/2023 10:52 AM	30:00	7.43 pH	21.42 °C	256.71 µS/cm	2.74 mg/L	1.27 NTU	59.8 mV	56.86 ft	200.00 ml/min
9/19/2023 10:57 AM	35:00	7.44 pH	21.49 °C	258.52 µS/cm	2.87 mg/L	0.94 NTU	46.0 mV	56.84 ft	200.00 ml/min
9/19/2023 11:02 AM	40:00	7.44 pH	21.51 °C	259.83 µS/cm	2.97 mg/L	1.33 NTU	55.2 mV	56.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-1D	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/19/2023 10:39:38 AM
Project: Plant Mitchell CCR
Operator Name: Daniel Howard

Location Name: MIT-PZ-2D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.95 ft** **Total Depth: 80.95 ft** **Initial Depth to Water: 38.57 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 75.95 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-2D sample time 1106.

Weather Conditions:
Partly sunny, temp 71 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/19/2023 10:39 AM	00:00	7.37 pH	20.41 °C	142.43 µS/cm	1.77 mg/L	9.45 NTU	77.3 mV	38.57 ft	200.00 ml/min
9/19/2023 10:44 AM	05:00	8.21 pH	19.75 °C	122.80 µS/cm	2.27 mg/L	2.71 NTU	59.3 mV	38.69 ft	200.00 ml/min
9/19/2023 10:49 AM	10:00	8.61 pH	19.71 °C	116.98 µS/cm	2.50 mg/L	1.76 NTU	55.9 mV	38.69 ft	200.00 ml/min
9/19/2023 10:54 AM	15:00	8.75 pH	19.70 °C	115.77 µS/cm	2.50 mg/L	1.74 NTU	53.9 mV	38.69 ft	200.00 ml/min
9/19/2023 10:59 AM	20:00	8.79 pH	19.76 °C	115.83 µS/cm	2.54 mg/L	1.71 NTU	52.8 mV	38.69 ft	200.00 ml/min
9/19/2023 11:04 AM	25:00	8.82 pH	19.72 °C	116.20 µS/cm	2.60 mg/L	1.34 NTU	52.5 mV	38.69 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-2D	

Low-Flow Test Report:

Test Date / Time: 9/19/2023 12:53:45 PM
Project: Plant Mitchell CCR
Operator Name: Terrell Parker

Location Name: MIT-PZ-31 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.6 ft** **Total Depth: 59.6 ft** **Initial Depth to Water: 41.66 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 58.5 ft** **Estimated Total Volume Pumped: 5700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1325

Weather Conditions:
Partly cloudy, 81 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/19/2023 12:53 PM	00:00	7.12 pH	23.52 °C	440.27 µS/cm	5.64 mg/L	7.80 NTU	99.2 mV	41.66 ft	200.00 ml/min
9/19/2023 12:58 PM	05:00	7.03 pH	21.69 °C	455.01 µS/cm	5.52 mg/L	4.76 NTU	75.1 mV	42.14 ft	200.00 ml/min
9/19/2023 1:03 PM	10:00	7.03 pH	21.43 °C	458.52 µS/cm	6.17 mg/L	3.13 NTU	99.9 mV	42.14 ft	200.00 ml/min
9/19/2023 1:08 PM	15:00	7.02 pH	21.21 °C	457.65 µS/cm	6.24 mg/L	1.94 NTU	100.1 mV	42.15 ft	200.00 ml/min
9/19/2023 1:13 PM	20:00	7.02 pH	21.55 °C	457.64 µS/cm	6.19 mg/L	1.41 NTU	100.1 mV	42.15 ft	200.00 ml/min
9/19/2023 1:18 PM	25:00	7.02 pH	21.18 °C	454.59 µS/cm	6.11 mg/L	0.79 NTU	99.7 mV	42.15 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-31	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/19/2023 12:32:28 PM
Project: Plant Mitchell CCR (2)
Operator Name: Daniel Howard

Location Name: MIT-PZ-32 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 55.3 ft** **Total Depth: 65.3 ft** **Initial Depth to Water: 40.63 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 60.3 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-32 Sample time 1300.

Weather Conditions:
Partly sunny, temp 82 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/19/2023 12:32 PM	00:00	7.46 pH	21.35 °C	331.17 µS/cm	2.68 mg/L	5.42 NTU	55.1 mV	40.63 ft	200.00 ml/min
9/19/2023 12:37 PM	05:00	7.43 pH	20.38 °C	339.95 µS/cm	2.72 mg/L	6.52 NTU	54.2 mV	40.71 ft	200.00 ml/min
9/19/2023 12:42 PM	10:00	7.43 pH	20.21 °C	339.35 µS/cm	2.55 mg/L	2.40 NTU	55.3 mV	40.71 ft	200.00 ml/min
9/19/2023 12:47 PM	15:00	7.43 pH	20.16 °C	338.61 µS/cm	2.41 mg/L	1.51 NTU	55.0 mV	40.71 ft	200.00 ml/min
9/19/2023 12:52 PM	20:00	7.43 pH	20.12 °C	338.66 µS/cm	2.36 mg/L	0.75 NTU	55.3 mV	40.71 ft	200.00 ml/min
9/19/2023 12:57 PM	25:00	7.43 pH	20.14 °C	339.14 µS/cm	2.34 mg/L	0.65 NTU	56.4 mV	40.71 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-32	

Low-Flow Test Report:

Test Date / Time: 9/20/2023 2:02:04 PM
Project: Plant Mitchell CCR (6)
Operator Name: Daniel Howard

Location Name: MIT-PZ-7D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50.37 ft Total Depth: 60.37 ft** **Initial Depth to Water: 35.99 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 55.37 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-7D sample time 1430.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/20/2023 2:02 PM	00:00	7.16 pH	25.51 °C	514.59 µS/cm	2.31 mg/L	9.01 NTU	73.6 mV	35.99 ft	200.00 ml/min
9/20/2023 2:07 PM	05:00	7.17 pH	23.61 °C	520.02 µS/cm	2.16 mg/L	7.91 NTU	71.9 mV	36.08 ft	200.00 ml/min
9/20/2023 2:12 PM	10:00	7.17 pH	23.54 °C	519.95 µS/cm	1.95 mg/L	4.31 NTU	71.1 mV	36.08 ft	200.00 ml/min
9/20/2023 2:17 PM	15:00	7.16 pH	23.36 °C	519.27 µS/cm	1.04 mg/L	0.99 NTU	71.4 mV	36.08 ft	200.00 ml/min
9/20/2023 2:22 PM	20:00	7.15 pH	23.46 °C	518.85 µS/cm	0.98 mg/L	1.04 NTU	77.1 mV	36.08 ft	200.00 ml/min
9/20/2023 2:27 PM	25:00	7.15 pH	23.57 °C	517.58 µS/cm	0.95 mg/L	0.97 NTU	77.6 mV	36.08 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-7D	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/20/2023 10:50:55 AM
Project: Plant Mitchell CCR PZ-14
Operator Name: Terrell Parker

Location Name: MIT-PZ-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.6 ft** **Total Depth: 52.6 ft** **Initial Depth to Water: 46.05 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 51.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1120

Weather Conditions:
Clear, sunny, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/20/2023 10:50 AM	00:00	6.96 pH	22.29 °C	0.50 µS/cm	6.91 mg/L	0.84 NTU	60.3 mV	46.05 ft	200.00 ml/min
9/20/2023 10:55 AM	05:00	6.95 pH	22.27 °C	0.50 µS/cm	6.67 mg/L	0.46 NTU	60.4 mV	46.42 ft	200.00 ml/min
9/20/2023 11:00 AM	10:00	6.95 pH	22.36 °C	0.51 µS/cm	6.44 mg/L	0.72 NTU	61.7 mV	46.42 ft	200.00 ml/min
9/20/2023 11:05 AM	15:00	6.94 pH	22.49 °C	0.51 µS/cm	6.24 mg/L	0.47 NTU	82.8 mV	46.42 ft	200.00 ml/min
9/20/2023 11:10 AM	20:00	6.95 pH	22.58 °C	0.51 µS/cm	6.12 mg/L	0.35 NTU	84.0 mV	46.42 ft	200.00 ml/min
9/20/2023 11:15 AM	25:00	6.94 pH	22.63 °C	0.51 µS/cm	6.03 mg/L	0.32 NTU	85.0 mV	46.42 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-14	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/20/2023 9:07:07 AM
Project: Plant Mitchell CCR PZ-15
Operator Name: Terrell Parker

Location Name: MIT-PZ-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 73 ft** **Total Depth: 83 ft** **Initial Depth to Water: 33.18 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 77.7 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 0940

Weather Conditions:
Partly cloudy, 64 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/20/2023 9:07 AM	00:00	7.14 pH	24.14 °C	0.51 µS/cm	2.37 mg/L	2.55 NTU	-50.2 mV	33.18 ft	200.00 ml/min
9/20/2023 9:12 AM	05:00	7.07 pH	22.87 °C	0.54 µS/cm	0.18 mg/L	8.65 NTU	-49.0 mV	33.38 ft	200.00 ml/min
9/20/2023 9:17 AM	10:00	7.07 pH	22.63 °C	0.55 µS/cm	0.11 mg/L	3.44 NTU	-80.0 mV	33.38 ft	200.00 ml/min
9/20/2023 9:22 AM	15:00	7.07 pH	22.57 °C	0.55 µS/cm	0.10 mg/L	1.61 NTU	-77.3 mV	33.38 ft	200.00 ml/min
9/20/2023 9:27 AM	20:00	7.07 pH	22.68 °C	0.55 µS/cm	0.09 mg/L	1.11 NTU	-37.4 mV	33.38 ft	200.00 ml/min
9/20/2023 9:32 AM	25:00	7.07 pH	22.72 °C	0.55 µS/cm	0.09 mg/L	1.02 NTU	-33.4 mV	33.38 ft	200.00 ml/min
9/20/2023 9:37 AM	30:00	7.07 pH	22.81 °C	0.55 µS/cm	0.09 mg/L		-61.8 mV	33.38 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-15	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/19/2023 2:46:02 PM
Project: Plant Mitchell CCR PZ-16
Operator Name: Terrell Parker

Location Name: MIT-PZ-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.7 ft** **Total Depth: 52.7 ft** **Initial Depth to Water: 37.02 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 48.2 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1525

Weather Conditions:
Clear, sunny, 84 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/19/2023 2:46 PM	00:00	7.07 pH	22.72 °C	498.73 µS/cm	1.82 mg/L	2.48 NTU	49.5 mV	37.08 ft	200.00 ml/min
9/19/2023 2:51 PM	05:00	7.07 pH	22.85 °C	496.69 µS/cm	1.76 mg/L	1.11 NTU	78.3 mV	37.08 ft	200.00 ml/min
9/19/2023 2:56 PM	10:00	7.07 pH	22.73 °C	493.56 µS/cm	1.74 mg/L	1.15 NTU	81.1 mV	37.08 ft	200.00 ml/min
9/19/2023 3:01 PM	15:00	7.07 pH	22.84 °C	492.74 µS/cm	1.71 mg/L	0.50 NTU	60.1 mV	37.08 ft	200.00 ml/min
9/19/2023 3:06 PM	20:00	7.07 pH	22.71 °C	492.78 µS/cm	1.72 mg/L	0.45 NTU	58.3 mV	37.08 ft	200.00 ml/min
9/19/2023 3:11 PM	25:00	7.07 pH	22.71 °C	490.36 µS/cm	1.71 mg/L	0.45 NTU	79.5 mV	37.08 ft	200.00 ml/min
9/19/2023 3:16 PM	30:00	7.07 pH	22.74 °C	490.11 µS/cm	1.70 mg/L	0.44 NTU	60.0 mV	37.08 ft	200.00 ml/min
9/19/2023 3:21 PM	35:00	7.08 pH	22.72 °C	490.39 µS/cm	1.70 mg/L	0.26 NTU	58.6 mV	37.08 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-16	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/20/2023 12:51:19 PM
Project: Plant Mitchell CCR PZ-17
Operator Name: Terrell Parker

Location Name: MIT-PZ-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.8 ft** **Total Depth: 62.8 ft** **Initial Depth to Water: 35.81 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 57.7 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1325

Weather Conditions:
Partly cloudy, 83 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/20/2023 12:51 PM	00:00	7.19 pH	24.81 °C	437.90 µS/cm	2.31 mg/L	3.63 NTU	-35.9 mV	35.81 ft	200.00 ml/min
9/20/2023 12:56 PM	05:00	7.18 pH	23.33 °C	428.73 µS/cm	1.38 mg/L	2.74 NTU	-6.7 mV	35.91 ft	200.00 ml/min
9/20/2023 1:01 PM	10:00	7.18 pH	23.13 °C	426.10 µS/cm	0.93 mg/L	2.05 NTU	-24.4 mV	35.91 ft	200.00 ml/min
9/20/2023 1:06 PM	15:00	7.17 pH	23.05 °C	428.49 µS/cm	0.65 mg/L	1.31 NTU	-25.1 mV	35.91 ft	200.00 ml/min
9/20/2023 1:11 PM	20:00	7.17 pH	23.20 °C	430.24 µS/cm	0.46 mg/L	1.22 NTU	-26.7 mV	35.91 ft	200.00 ml/min
9/20/2023 1:16 PM	25:00	7.17 pH	23.27 °C	431.67 µS/cm	0.35 mg/L	1.00 NTU	-6.8 mV	35.91 ft	200.00 ml/min
9/20/2023 1:21 PM	30:00	7.16 pH	23.48 °C	435.29 µS/cm	0.29 mg/L	0.82 NTU	-7.8 mV	35.91 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-17	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/20/2023 2:17:23 PM
Project: Plant Mitchell CCR PZ-18
Operator Name: Terrell Parker

Location Name: MIT-PZ-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.8 ft** **Total Depth: 62.8 ft** **Initial Depth to Water: 32.75 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 57.7 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 1455

Weather Conditions:
Overcast, breezy, 85 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/20/2023 2:17 PM	00:00	6.87 pH	24.65 °C	700.81 µS/cm	4.55 mg/L	2.53 NTU	27.6 mV	32.75 ft	200.00 ml/min
9/20/2023 2:22 PM	05:00	6.79 pH	23.75 °C	728.77 µS/cm	2.85 mg/L	1.29 NTU	47.2 mV	32.82 ft	200.00 ml/min
9/20/2023 2:27 PM	10:00	6.77 pH	23.88 °C	731.97 µS/cm	1.93 mg/L	0.60 NTU	48.8 mV	32.82 ft	200.00 ml/min
9/20/2023 2:32 PM	15:00	6.77 pH	23.89 °C	730.89 µS/cm	1.23 mg/L	0.38 NTU	54.3 mV	32.82 ft	200.00 ml/min
9/20/2023 2:37 PM	20:00	6.76 pH	23.92 °C	732.33 µS/cm	0.94 mg/L	0.26 NTU	45.0 mV	32.82 ft	200.00 ml/min
9/20/2023 2:42 PM	25:00	6.76 pH	23.88 °C	732.75 µS/cm	0.73 mg/L	0.39 NTU	40.6 mV	32.82 ft	200.00 ml/min
9/20/2023 2:47 PM	30:00	6.76 pH	23.66 °C	732.44 µS/cm	0.54 mg/L	0.25 NTU	38.4 mV	32.82 ft	200.00 ml/min
9/20/2023 2:52 PM	35:00	6.76 pH	23.66 °C	732.16 µS/cm	0.42 mg/L	0.24 NTU	36.6 mV	32.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-18	Groundwater

Low-Flow Test Report:

Test Date / Time: 9/20/2023 12:08:55 PM
Project: Plant Mitchell CCR (5)
Operator Name: Daniel Howard

Location Name: MIT-PZ-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.63 ft** **Total Depth: 62.63 ft** **Initial Depth to Water: 34.84 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 57.63 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-19 sample time 1236.

Weather Conditions:
Sunny, temp 82 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/20/2023 12:08 PM	00:00	6.84 pH	24.91 °C	812.78 µS/cm	1.11 mg/L	1.35 NTU	100.7 mV	34.84 ft	200.00 ml/min
9/20/2023 12:13 PM	05:00	6.83 pH	24.16 °C	821.89 µS/cm	0.59 mg/L	1.67 NTU	112.4 mV	34.87 ft	200.00 ml/min
9/20/2023 12:18 PM	10:00	6.83 pH	23.88 °C	818.39 µS/cm	0.41 mg/L	1.29 NTU	111.4 mV	34.87 ft	200.00 ml/min
9/20/2023 12:23 PM	15:00	6.84 pH	23.79 °C	816.63 µS/cm	0.36 mg/L	1.02 NTU	95.0 mV	34.87 ft	200.00 ml/min
9/20/2023 12:28 PM	20:00	6.83 pH	23.81 °C	814.29 µS/cm	0.32 mg/L	0.55 NTU	107.3 mV	34.87 ft	200.00 ml/min
9/20/2023 12:33 PM	25:00	6.83 pH	23.88 °C	815.26 µS/cm	0.31 mg/L	0.43 NTU	92.2 mV	34.87 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-19	

Low-Flow Test Report:

Test Date / Time: 9/20/2023 9:48:36 AM
Project: Plant Mitchell CCR (4)
Operator Name: Daniel Howard

Location Name: MIT-PZ-23A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.21 ft** **Total Depth: 67.21 ft** **Initial Depth to Water: 52.87 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 62.2 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-23A sample time 1020.

Weather Conditions:
Partly sunny, temp 71 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/20/2023 9:48 AM	00:00	6.85 pH	23.34 °C	713.54 µS/cm	4.13 mg/L	35.10 NTU	83.0 mV	52.87 ft	200.00 ml/min
9/20/2023 9:53 AM	05:00	6.86 pH	22.93 °C	704.28 µS/cm	3.76 mg/L	21.80 NTU	83.3 mV	53.30 ft	200.00 ml/min
9/20/2023 9:58 AM	10:00	6.86 pH	22.85 °C	700.66 µS/cm	3.42 mg/L	12.20 NTU	87.8 mV	53.30 ft	200.00 ml/min
9/20/2023 10:03 AM	15:00	6.86 pH	22.97 °C	704.48 µS/cm	2.80 mg/L	8.65 NTU	90.1 mV	53.30 ft	200.00 ml/min
9/20/2023 10:08 AM	20:00	6.87 pH	22.91 °C	706.47 µS/cm	2.85 mg/L	5.89 NTU	86.4 mV	53.30 ft	200.00 ml/min
9/20/2023 10:13 AM	25:00	6.86 pH	23.06 °C	704.22 µS/cm	2.84 mg/L	4.56 NTU	93.8 mV	53.30 ft	200.00 ml/min
9/20/2023 10:18 AM	30:00	6.86 pH	23.16 °C	701.54 µS/cm	2.81 mg/L	4.12 NTU	96.0 mV	53.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-23A	

Low-Flow Test Report:

Test Date / Time: 9/19/2023 2:50:08 PM
Project: Plant Mitchell CCR (3)
Operator Name: Daniel Howard

Location Name: MIT-PZ-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 33.37 ft**	**Pump Type: Dedicated bladder** **Tubing Type: HDPE** **Pump Intake From TOC: 58.2 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-25 sample time 1528.

Weather Conditions:
Partly sunny, temp 84 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/19/2023 2:50 PM	00:00	7.11 pH	27.24 °C	441.07 µS/cm	2.20 mg/L	5.14 NTU	38.8 mV	33.37 ft	200.00 ml/min
9/19/2023 2:55 PM	05:00	7.15 pH	24.57 °C	457.17 µS/cm	1.09 mg/L	5.57 NTU	10.6 mV	33.46 ft	200.00 ml/min
9/19/2023 3:00 PM	10:00	7.15 pH	24.64 °C	457.08 µS/cm	0.81 mg/L	4.79 NTU	-6.8 mV	33.46 ft	200.00 ml/min
9/19/2023 3:05 PM	15:00	7.16 pH	24.45 °C	455.42 µS/cm	0.67 mg/L	3.17 NTU	-20.4 mV	33.46 ft	200.00 ml/min
9/19/2023 3:10 PM	20:00	7.16 pH	24.46 °C	457.72 µS/cm	0.57 mg/L	1.51 NTU	-27.3 mV	33.46 ft	200.00 ml/min
9/19/2023 3:15 PM	25:00	7.17 pH	24.50 °C	457.17 µS/cm	0.54 mg/L	1.02 NTU	-32.9 mV	33.46 ft	200.00 ml/min
9/19/2023 3:20 PM	30:00	7.17 pH	24.20 °C	457.89 µS/cm	0.50 mg/L	0.76 NTU	-31.7 mV	33.48 ft	200.00 ml/min
9/19/2023 3:25 PM	35:00	7.18 pH	23.87 °C	456.10 µS/cm	0.42 mg/L	0.87 NTU	-34.7 mV	33.48 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-25	

Low-Flow Test Report:

Test Date / Time: 9/21/2023 8:47:04 AM
Project: Plant Mitchell CCR PZ-33
Operator Name: Terrell Parker

Location Name: MIT-PZ-33 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.9 ft** **Total Depth: 72.9 ft** **Initial Depth to Water: 51.84 ft**	**Pump Type: Dedicated bladder** **Tubing Type: LDPE** **Pump Intake From TOC: 68.9 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 877800**

Test Notes: Sample time 0915

Weather Conditions:
Clear, sunny, 66 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 20	+/- 0.3	
9/21/2023 8:47 AM	00:00	7.04 pH	22.02 °C	505.28 µS/cm	2.01 mg/L	1.46 NTU	25.6 mV	51.84 ft	200.00 ml/min
9/21/2023 8:52 AM	05:00	7.04 pH	21.48 °C	509.06 µS/cm	1.05 mg/L	1.02 NTU	44.5 mV	52.02 ft	200.00 ml/min
9/21/2023 8:57 AM	10:00	7.04 pH	21.39 °C	510.49 µS/cm	0.49 mg/L	0.46 NTU	55.3 mV	52.02 ft	200.00 ml/min
9/21/2023 9:02 AM	15:00	7.05 pH	21.40 °C	510.56 µS/cm	0.26 mg/L	0.38 NTU	54.3 mV	52.02 ft	200.00 ml/min
9/21/2023 9:07 AM	20:00	7.05 pH	21.42 °C	509.14 µS/cm	0.19 mg/L	0.31 NTU	43.1 mV	52.02 ft	200.00 ml/min
9/21/2023 9:12 AM	25:00	7.05 pH	21.46 °C	510.45 µS/cm	0.17 mg/L	0.22 NTU	49.9 mV	52.02 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-33	Groundwater
MIT-APA12-FD-01	Groundwater field duplicate

Low-Flow Test Report:

Test Date / Time: 9/21/2023 10:13:17 AM
Project: Plant Mitchell CCR (7)
Operator Name: Daniel Howard

Location Name: MIT-PZ-57 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 63.39 ft** **Total Depth: 73.39 ft** **Initial Depth to Water: 32.26 ft**	**Pump Type: QED BLADDER PUMP** **Tubing Type: LDPE** **Pump Intake From TOC: 68.39 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.34 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
MIT-PZ-57 sample time 1045. Also collected duplicate sample MIT-APA12-FD-2.

Weather Conditions:
Clear, sunny, temp 75 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
9/21/2023 10:13 AM	00:00	7.20 pH	23.04 °C	534.84 µS/cm	1.56 mg/L	38.50 NTU	82.1 mV	32.26 ft	200.00 ml/min
9/21/2023 10:18 AM	05:00	7.21 pH	22.98 °C	526.93 µS/cm	1.04 mg/L	47.70 NTU	73.7 mV	32.61 ft	200.00 ml/min
9/21/2023 10:23 AM	10:00	7.21 pH	22.95 °C	526.31 µS/cm	0.94 mg/L	46.40 NTU	84.0 mV	32.61 ft	200.00 ml/min
9/21/2023 10:28 AM	15:00	7.21 pH	23.18 °C	528.02 µS/cm	0.69 mg/L	31.30 NTU	67.9 mV	32.61 ft	200.00 ml/min
9/21/2023 10:33 AM	20:00	7.21 pH	23.32 °C	524.01 µS/cm	0.56 mg/L	9.47 NTU	66.0 mV	32.60 ft	200.00 ml/min
9/21/2023 10:38 AM	25:00	7.21 pH	23.38 °C	523.99 µS/cm	0.44 mg/L	3.66 NTU	76.3 mV	32.60 ft	200.00 ml/min
9/21/2023 10:43 AM	30:00	7.21 pH	23.44 °C	525.03 µS/cm	0.38 mg/L	2.91 NTU	64.4 mV	32.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-57	

APPENDIX C
FIELD SAMPLING DATA
FEBRUARY 2024

Low-Flow Test Report:

Test Date / Time: 2/28/2024 11:21:47 AM
Project: Plant Mitchell (2)
Operator Name: Ever Guillen

Location Name: MIT-PZ-1D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 71 ft** **Total Depth: 81 ft** **Initial Depth to Water: 47.12 ft**	**Pump Type: QED Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 76 ft** **Estimated Total Volume Pumped: 1.75 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time = 1220

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10		
2/28/2024 11:21 AM	00:00	7.50 pH	24.80 °C	320.94 µS/cm	8.30 mg/L	16.60	109.3 mV	47.12 ft	200.00 ml/min
2/28/2024 11:27 AM	05:55	7.27 pH	24.58 °C	284.38 µS/cm	8.54 mg/L	13.70	74.4 mV	47.12 ft	200.00 ml/min
2/28/2024 11:32 AM	10:55	7.11 pH	24.50 °C	290.73 µS/cm	8.44 mg/L	9.70	45.1 mV	47.12 ft	200.00 ml/min
2/28/2024 11:37 AM	15:55	7.03 pH	24.76 °C	292.96 µS/cm	7.32 mg/L	7.21	47.3 mV	47.12 ft	200.00 ml/min
2/28/2024 11:42 AM	20:55	7.06 pH	23.16 °C	282.74 µS/cm	2.40 mg/L	4.90	1.6 mV	47.12 ft	200.00 ml/min
2/28/2024 11:47 AM	25:55	7.25 pH	21.93 °C	296.98 µS/cm	0.55 mg/L	3.13	-67.1 mV	47.12 ft	200.00 ml/min
2/28/2024 11:52 AM	30:55	7.36 pH	21.89 °C	301.13 µS/cm	0.25 mg/L	2.91	-92.1 mV	47.12 ft	200.00 ml/min
2/28/2024 11:57 AM	35:55	7.39 pH	21.93 °C	300.85 µS/cm	0.22 mg/L	1.76	-91.5 mV	47.12 ft	200.00 ml/min
2/28/2024 12:02 PM	40:55	7.40 pH	22.15 °C	302.31 µS/cm	0.22 mg/L	1.22	-80.4 mV	47.12 ft	200.00 ml/min
2/28/2024 12:07 PM	45:55	7.40 pH	22.67 °C	300.43 µS/cm	0.24 mg/L	1.08	-65.1 mV	47.12 ft	200.00 ml/min
2/28/2024 12:12 PM	50:55	7.41 pH	22.72 °C	301.31 µS/cm	0.23 mg/L	1.39	-56.2 mV	47.12 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/27/2024 12:20:08 PM
Project: Plant Mitchell
Operator Name: Daniel Howard

Location Name: MIT-PZ-2D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.95 ft** **Total Depth: 80.95 ft** **Initial Depth to Water: 29.8 ft**	**Pump Type: Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 75.95 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.88 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-2D sample time 1302.

Weather Conditions:
Overcast, temp 68 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/27/2024 12:20 PM	00:00	7.52 pH	20.04 °C	144.36 µS/cm	1.07 mg/L	1.71 NTU	-139.9 mV	29.80 ft	200.00 ml/min
2/27/2024 12:25 PM	05:00	7.94 pH	19.49 °C	131.25 µS/cm	1.03 mg/L	2.48 NTU	-128.4 mV	30.64 ft	200.00 ml/min
2/27/2024 12:30 PM	10:00	8.06 pH	19.45 °C	119.42 µS/cm	1.53 mg/L	1.70 NTU	-101.1 mV	30.66 ft	200.00 ml/min
2/27/2024 12:35 PM	15:00	8.17 pH	19.41 °C	116.10 µS/cm	1.76 mg/L	1.80 NTU	-87.4 mV	30.66 ft	200.00 ml/min
2/27/2024 12:40 PM	20:00	8.25 pH	19.38 °C	115.42 µS/cm	1.88 mg/L	1.37 NTU	-79.6 mV	30.66 ft	200.00 ml/min
2/27/2024 12:45 PM	25:00	8.37 pH	19.33 °C	114.91 µS/cm	1.99 mg/L	1.44 NTU	-75.4 mV	30.67 ft	200.00 ml/min
2/27/2024 12:50 PM	30:00	8.43 pH	19.38 °C	115.41 µS/cm	2.07 mg/L	1.12 NTU	-71.5 mV	30.67 ft	200.00 ml/min
2/27/2024 12:55 PM	35:00	8.47 pH	19.44 °C	116.14 µS/cm	2.14 mg/L	1.58 NTU	-68.3 mV	30.68 ft	200.00 ml/min
2/27/2024 1:00 PM	40:00	8.49 pH	19.42 °C	117.50 µS/cm	2.23 mg/L	0.82 NTU	-122.4 mV	30.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-2D	

Low-Flow Test Report:

Test Date / Time: 2/28/2024 2:32:29 PM
Project: Plant Mitchell (6)
Operator Name: Daniel Howard

Location Name: MIT-PZ-7D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 50.37 ft** **Total Depth: 60.37 ft** **Initial Depth to Water: 30.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 55.37 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-7D sample time 1459.

Weather Conditions:
Partly cloudy, temp 78 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/28/2024 2:32 PM	00:00	7.08 pH	23.05 °C	510.02 µS/cm	2.30 mg/L	3.70 NTU	12.8 mV	30.88 ft	200.00 ml/min
2/28/2024 2:37 PM	05:00	7.09 pH	21.81 °C	520.10 µS/cm	1.40 mg/L	3.55 NTU	36.0 mV	30.98 ft	200.00 ml/min
2/28/2024 2:42 PM	10:00	7.08 pH	21.85 °C	512.98 µS/cm	1.40 mg/L	1.48 NTU	41.0 mV	30.98 ft	200.00 ml/min
2/28/2024 2:47 PM	15:00	7.08 pH	21.81 °C	512.21 µS/cm	1.44 mg/L	0.75 NTU	43.9 mV	30.98 ft	200.00 ml/min
2/28/2024 2:52 PM	20:00	7.08 pH	21.69 °C	508.12 µS/cm	1.44 mg/L	0.62 NTU	57.3 mV	31.00 ft	200.00 ml/min
2/28/2024 2:57 PM	25:00	7.07 pH	21.82 °C	508.15 µS/cm	1.45 mg/L	0.46 NTU	60.3 mV	31.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-7D	

Low-Flow Test Report:

Test Date / Time: 2/29/2024 10:41:38 AM
Project: Plant Mitchell (6)
Operator Name: Ever Guillen

Location Name: MIT-PZ-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.6 ft** **Total Depth: 52.6 ft** **Initial Depth to Water: 40.28 ft**	**Pump Type: QED** **Tubing Type: LDPE** **Pump Intake From TOC: 47.6 ft** **Estimated Total Volume Pumped: 1.75 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time =1120

Weather Conditions:
Cold, cloudy,

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 10:41 AM	00:00	7.21 pH	20.47 °C	479.36 µS/cm	7.10 mg/L	13.20 NTU	102.1 mV	40.28 ft	200.00 ml/min
2/29/2024 10:46 AM	05:00	7.10 pH	19.89 °C	486.36 µS/cm	6.50 mg/L	8.03 NTU	82.1 mV	40.28 ft	200.00 ml/min
2/29/2024 10:51 AM	10:00	7.10 pH	19.92 °C	486.45 µS/cm	6.37 mg/L	5.38 NTU	120.2 mV	40.28 ft	200.00 ml/min
2/29/2024 10:56 AM	15:00	7.09 pH	19.83 °C	488.29 µS/cm	6.29 mg/L	3.76 NTU	105.4 mV	40.28 ft	200.00 ml/min
2/29/2024 11:01 AM	20:00	7.08 pH	19.85 °C	494.48 µS/cm	6.20 mg/L	2.84 NTU	112.3 mV	40.28 ft	200.00 ml/min
2/29/2024 11:06 AM	25:00	7.07 pH	19.83 °C	495.16 µS/cm	6.14 mg/L	1.64 NTU	120.4 mV	40.28 ft	200.00 ml/min
2/29/2024 11:11 AM	30:00	7.07 pH	19.82 °C	494.34 µS/cm	6.06 mg/L	0.83 NTU	123.4 mV	40.28 ft	200.00 ml/min
2/29/2024 11:16 AM	35:00	7.07 pH	19.97 °C	494.95 µS/cm	6.01 mg/L	0.67 NTU	125.4 mV	40.28 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/28/2024 12:56:02 PM
Project: Plant Mitchell (5)
Operator Name: Daniel Howard

Location Name: MIT-PZ-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 73 ft** **Total Depth: 83 ft** **Initial Depth to Water: 29.07 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 78 ft** **Estimated Total Volume Pumped: 5576.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-15 sample time 1326.

Weather Conditions:
Overcast, temp 76 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/28/2024 12:56 PM	00:00	7.19 pH	23.59 °C	507.52 µS/cm	0.30 mg/L	6.42 NTU	-91.6 mV	29.07 ft	200.00 ml/min
2/28/2024 1:01 PM	05:00	7.21 pH	22.76 °C	503.54 µS/cm	0.18 mg/L	2.07 NTU	-162.2 mV	29.32 ft	200.00 ml/min
2/28/2024 1:06 PM	10:00	7.19 pH	22.58 °C	505.32 µS/cm	0.15 mg/L	1.05 NTU	-105.8 mV	29.37 ft	200.00 ml/min
2/28/2024 1:11 PM	15:00	7.18 pH	22.49 °C	510.33 µS/cm	0.14 mg/L	0.76 NTU	-159.5 mV	29.37 ft	200.00 ml/min
2/28/2024 1:16 PM	20:00	7.18 pH	22.40 °C	513.50 µS/cm	0.14 mg/L	0.52 NTU	-96.8 mV	29.39 ft	200.00 ml/min
2/28/2024 1:18 PM	22:42	7.18 pH	22.40 °C	514.32 µS/cm	0.14 mg/L	0.52 NTU	-94.8 mV	29.39 ft	200.00 ml/min
2/28/2024 1:18 PM	22:53	7.18 pH	22.40 °C	513.92 µS/cm	0.14 mg/L	0.59 NTU	-125.3 mV	29.39 ft	200.00 ml/min
2/28/2024 1:23 PM	27:53	7.18 pH	22.38 °C	514.20 µS/cm	0.14 mg/L	0.43 NTU	-90.9 mV	29.39 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-15	

Low-Flow Test Report:

Test Date / Time: 2/29/2024 8:49:46 AM
Project: Plant Mitchell (5)
Operator Name: Ever Guillen

Location Name: MIT-PZ-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.7 ft** **Total Depth: 52.7 ft** **Initial Depth to Water: 28.78 ft**	**Pump Type: QED** **Tubing Type: LDPE** **Pump Intake From TOC: 47.7 ft** **Estimated Total Volume Pumped: 1.5 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time =0925

Weather Conditions:
Cold, cloudy,

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 8:49 AM	00:00	7.23 pH	18.14 °C	480.86 µS/cm	4.92 mg/L	7.12 NTU	107.4 mV	28.78 ft	200.00 ml/min
2/29/2024 8:54 AM	05:00	7.20 pH	18.45 °C	474.05 µS/cm	2.11 mg/L	5.11 NTU	105.9 mV	31.23 ft	200.00 ml/min
2/29/2024 8:59 AM	09:23	7.19 pH	18.71 °C	467.40 µS/cm	1.84 mg/L	2.11 NTU	108.6 mV	31.23 ft	200.00 ml/min
2/29/2024 9:03 AM	13:17	7.19 pH	18.70 °C	465.23 µS/cm	1.74 mg/L	1.26 NTU	112.3 mV	31.23 ft	200.00 ml/min
2/29/2024 9:08 AM	18:17	7.19 pH	18.74 °C	474.67 µS/cm	1.69 mg/L	1.11 NTU	121.0 mV	31.23 ft	200.00 ml/min
2/29/2024 9:13 AM	23:17	7.19 pH	18.71 °C	473.76 µS/cm	1.64 mg/L	0.98 NTU	123.1 mV	31.23 ft	200.00 ml/min
2/29/2024 9:18 AM	28:17	7.19 pH	18.77 °C	473.12 µS/cm	1.63 mg/L	0.88 NTU	131.1 mV	31.23 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/29/2024 2:06:30 PM
Project: Plant Mitchell (9)
Operator Name: Daniel Howard

Location Name: MIT-PZ-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.8 ft** **Total Depth: 62.8 ft** **Initial Depth to Water: 30.04 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 57.8 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-17 sample time 1433.

Weather Conditions:
Partly cloudy, temp 61 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 2:06 PM	00:00	7.21 pH	20.21 °C	457.37 µS/cm	1.25 mg/L	1.77 NTU	-13.6 mV	30.04 ft	200.00 ml/min
2/29/2024 2:11 PM	05:00	7.20 pH	20.02 °C	459.79 µS/cm	0.76 mg/L	1.89 NTU	-14.5 mV	30.18 ft	200.00 ml/min
2/29/2024 2:16 PM	10:00	7.20 pH	20.03 °C	462.20 µS/cm	0.50 mg/L	1.06 NTU	-40.6 mV	30.18 ft	200.00 ml/min
2/29/2024 2:21 PM	15:00	7.20 pH	20.04 °C	465.21 µS/cm	0.38 mg/L	0.73 NTU	-46.0 mV	30.18 ft	200.00 ml/min
2/29/2024 2:26 PM	20:00	7.20 pH	19.99 °C	465.96 µS/cm	0.30 mg/L	0.60 NTU	-24.4 mV	30.18 ft	200.00 ml/min
2/29/2024 2:31 PM	25:00	7.20 pH	19.96 °C	466.76 µS/cm	0.26 mg/L	0.46 NTU	-26.1 mV	30.18 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-17	

Low-Flow Test Report:

Test Date / Time: 2/29/2024 1:41:50 PM
Project: Plant Mitchell (7)
Operator Name: Ever Guillen

Location Name: MIT-PZ-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.8 ft** **Total Depth: 62.8 ft** **Initial Depth to Water: 27.64 ft**	**Pump Type: QED** **Tubing Type: LDPE** **Pump Intake From TOC: 57.8 ft** **Estimated Total Volume Pumped: 1.75 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.29 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time =1420

Weather Conditions:
Cold, cloudy, windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 1:41 PM	00:00	7.74 pH	20.48 °C	378.08 µS/cm	8.63 mg/L	8.79 NTU	125.2 mV	27.64 ft	200.00 ml/min
2/29/2024 1:46 PM	05:00	7.02 pH	20.96 °C	694.60 µS/cm	0.89 mg/L	4.31 NTU	101.8 mV	27.93 ft	200.00 ml/min
2/29/2024 1:51 PM	10:00	6.98 pH	20.81 °C	697.64 µS/cm	0.33 mg/L	3.13 NTU	106.8 mV	27.93 ft	200.00 ml/min
2/29/2024 1:56 PM	15:00	6.97 pH	20.96 °C	698.54 µS/cm	0.31 mg/L	2.03 NTU	138.9 mV	27.93 ft	200.00 ml/min
2/29/2024 2:01 PM	20:00	6.97 pH	20.75 °C	696.97 µS/cm	0.32 mg/L	1.45 NTU	148.8 mV	27.93 ft	200.00 ml/min
2/29/2024 2:06 PM	25:00	6.96 pH	20.52 °C	700.83 µS/cm	0.31 mg/L	1.79 NTU	148.4 mV	27.93 ft	200.00 ml/min
2/29/2024 2:11 PM	30:00	6.95 pH	20.52 °C	700.60 µS/cm	0.35 mg/L	1.06 NTU	143.0 mV	27.93 ft	200.00 ml/min
2/29/2024 2:16 PM	35:00	6.94 pH	20.70 °C	704.91 µS/cm	0.29 mg/L	1.08 NTU	148.6 mV	27.93 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/29/2024 9:22:54 AM
Project: Plant Mitchell (7)
Operator Name: Daniel Howard

Location Name: MIT-PZ-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 52.63 ft** **Total Depth: 62.63 ft** **Initial Depth to Water: 29.18 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 57.63 ft** **Estimated Total Volume Pumped: 6000 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: 1080302**

Test Notes: MIT-PZ-19 sample time 0955. Also collected dup sample MIT-APA12-FD-01.

Weather Conditions:
Partly sunny, temp 48 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 9:22 AM	00:00	6.90 pH	18.08 °C	811.35 µS/cm	3.61 mg/L	0.48 NTU	160.7 mV	29.18 ft	200.00 ml/min
2/29/2024 9:27 AM	05:00	6.83 pH	19.05 °C	764.29 µS/cm	1.39 mg/L	0.89 NTU	161.6 mV	29.22 ft	200.00 ml/min
2/29/2024 9:32 AM	10:00	6.82 pH	19.26 °C	764.16 µS/cm	0.95 mg/L	0.49 NTU	199.5 mV	29.22 ft	200.00 ml/min
2/29/2024 9:37 AM	15:00	6.82 pH	19.38 °C	763.77 µS/cm	0.77 mg/L	0.41 NTU	193.0 mV	29.22 ft	200.00 ml/min
2/29/2024 9:42 AM	20:00	6.82 pH	19.32 °C	768.12 µS/cm	0.59 mg/L	0.37 NTU	141.0 mV	29.22 ft	200.00 ml/min
2/29/2024 9:47 AM	25:00	6.81 pH	19.38 °C	767.23 µS/cm	0.53 mg/L	0.29 NTU	179.2 mV	29.22 ft	200.00 ml/min
2/29/2024 9:52 AM	30:00	6.82 pH	19.41 °C	767.69 µS/cm	0.45 mg/L	0.43 NTU	132.4 mV	29.22 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-19	

Low-Flow Test Report:

Test Date / Time: 2/28/2024 10:44:02 AM
Project: Plant Mitchell (4)
Operator Name: Daniel Howard

Location Name: MIT-PZ-23A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 57.21 ft** **Total Depth: 67.21 ft** **Initial Depth to Water: 45.15 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 62.21 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.5 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-23A sample time 1121. Also collected dup sample MIT-APA12-FD-02.

Weather Conditions:
Partly cloudy, temp 70 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/28/2024 10:44 AM	00:00	6.78 pH	24.33 °C	743.33 µS/cm	3.46 mg/L	7.83 NTU	193.1 mV	45.15 ft	200.00 ml/min
2/28/2024 10:49 AM	05:00	6.78 pH	22.44 °C	672.52 µS/cm	2.99 mg/L	7.79 NTU	234.6 mV	46.63 ft	200.00 ml/min
2/28/2024 10:54 AM	10:00	6.78 pH	22.30 °C	671.30 µS/cm	2.72 mg/L	7.26 NTU	226.4 mV	46.65 ft	200.00 ml/min
2/28/2024 10:59 AM	15:00	6.78 pH	22.11 °C	665.77 µS/cm	2.54 mg/L	6.94 NTU	223.5 mV	46.68 ft	200.00 ml/min
2/28/2024 11:04 AM	20:00	6.79 pH	21.99 °C	677.84 µS/cm	2.44 mg/L	7.20 NTU	220.8 mV	46.68 ft	200.00 ml/min
2/28/2024 11:09 AM	25:00	6.79 pH	22.11 °C	673.05 µS/cm	2.37 mg/L	5.54 NTU	218.7 mV	46.65 ft	200.00 ml/min
2/28/2024 11:14 AM	30:00	6.79 pH	22.04 °C	664.66 µS/cm	2.31 mg/L	4.86 NTU	217.0 mV	46.65 ft	200.00 ml/min
2/28/2024 11:19 AM	35:00	6.79 pH	22.02 °C	666.93 µS/cm	2.23 mg/L	3.66 NTU	153.0 mV	46.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-23A	

Low-Flow Test Report:

Test Date / Time: 2/27/2024 4:02:32 PM
Project: Plant Mitchell (3)
Operator Name: Daniel Howard

Location Name: MIT-PZ-25 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 26.15 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 58.19 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-25 sample time 1628.

Weather Conditions:
Partly sunny, temp 76 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/27/2024 4:02 PM	00:00	7.16 pH	21.85 °C	466.08 µS/cm	1.46 mg/L	6.90 NTU	-39.6 mV	26.15 ft	200.00 ml/min
2/27/2024 4:07 PM	05:00	7.14 pH	21.82 °C	467.17 µS/cm	0.42 mg/L	11.60 NTU	-82.5 mV	28.29 ft	200.00 ml/min
2/27/2024 4:12 PM	10:00	7.13 pH	21.86 °C	467.07 µS/cm	0.34 mg/L	2.97 NTU	-81.9 mV	28.29 ft	200.00 ml/min
2/27/2024 4:17 PM	15:00	7.13 pH	21.88 °C	466.27 µS/cm	0.31 mg/L	2.10 NTU	-41.2 mV	28.29 ft	200.00 ml/min
2/27/2024 4:22 PM	20:00	7.13 pH	21.91 °C	466.48 µS/cm	0.30 mg/L	0.97 NTU	-41.8 mV	28.29 ft	200.00 ml/min
2/27/2024 4:27 PM	25:00	7.13 pH	21.88 °C	466.62 µS/cm	0.29 mg/L	0.59 NTU	-86.8 mV	28.29 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-25	

Low-Flow Test Report:

Test Date / Time: 2/28/2024 1:47:55 PM
Project: Plant Mitchell (4)
Operator Name: Ever Guillen

Location Name: MIT-PZ-31 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.6 ft** **Total Depth: 59.6 ft** **Initial Depth to Water: 33.61 ft**	**Pump Type: QED** **Tubing Type: LDPE** **Pump Intake From TOC: 54.6 ft** **Estimated Total Volume Pumped: 1.75 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time =1425

Weather Conditions:
Cool, cloudy, windy,humid

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/28/2024 1:47 PM	00:00	7.15 pH	21.69 °C	470.28 µS/cm	4.78 mg/L	7.41 NTU	15.7 mV	33.91 ft	200.00 ml/min
2/28/2024 1:52 PM	05:00	7.12 pH	21.81 °C	473.34 µS/cm	4.66 mg/L	4.82 NTU	25.5 mV	33.91 ft	200.00 ml/min
2/28/2024 1:57 PM	10:00	7.12 pH	21.96 °C	473.85 µS/cm	4.54 mg/L	4.17 NTU	40.8 mV	33.91 ft	200.00 ml/min
2/28/2024 2:02 PM	15:00	7.11 pH	21.97 °C	472.07 µS/cm	4.54 mg/L	3.78 NTU	56.6 mV	33.91 ft	200.00 ml/min
2/28/2024 2:07 PM	20:00	7.11 pH	21.84 °C	471.54 µS/cm	4.53 mg/L	1.63 NTU	67.5 mV	33.91 ft	200.00 ml/min
2/28/2024 2:12 PM	25:00	7.11 pH	21.70 °C	470.21 µS/cm	4.53 mg/L	0.96 NTU	91.7 mV	33.91 ft	200.00 ml/min
2/28/2024 2:17 PM	30:00	7.11 pH	21.80 °C	471.36 µS/cm	4.55 mg/L	1.11 NTU	105.5 mV	33.91 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/27/2024 2:38:26 PM
Project: Plant Mitchell (2)
Operator Name: Daniel Howard

Location Name: MIT-PZ-32 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 55.3 ft** **Total Depth: 65.3 ft** **Initial Depth to Water: 31.41 ft**	**Pump Type: Bladder Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 60.3 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.92 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-32 sample time 1505. Or

Weather Conditions:
Partly cloudy, temp 77 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/27/2024 2:38 PM	00:00	7.38 pH	20.54 °C	325.80 µS/cm	2.32 mg/L	1.97 NTU	66.4 mV	31.41 ft	200.00 ml/min
2/27/2024 2:43 PM	05:00	7.38 pH	19.80 °C	318.20 µS/cm	2.22 mg/L	1.98 NTU	83.7 mV	32.33 ft	200.00 ml/min
2/27/2024 2:48 PM	10:00	7.38 pH	19.77 °C	313.93 µS/cm	2.16 mg/L	0.93 NTU	58.6 mV	32.33 ft	200.00 ml/min
2/27/2024 2:53 PM	15:00	7.38 pH	19.78 °C	322.45 µS/cm	2.13 mg/L	0.56 NTU	57.0 mV	32.33 ft	200.00 ml/min
2/27/2024 2:58 PM	20:00	7.38 pH	19.69 °C	321.94 µS/cm	2.12 mg/L	0.24 NTU	55.9 mV	32.33 ft	200.00 ml/min
2/27/2024 3:03 PM	25:00	7.39 pH	19.68 °C	322.33 µS/cm	2.10 mg/L	0.33 NTU	55.6 mV	32.33 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-32	

Low-Flow Test Report:

Test Date / Time: 2/29/2024 3:14:11 PM
Project: Plant Mitchell (8)
Operator Name: Ever Guillen

Location Name: MIT-PZ-33 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.9 ft** **Total Depth: 72.9 ft** **Initial Depth to Water: 46.28 ft**	**Pump Type: QED** **Tubing Type: LDPE** **Pump Intake From TOC: 67.9 ft** **Estimated Total Volume Pumped: 1.75 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time =1555

Weather Conditions:
Cold, cloudy, windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 3:14 PM	00:00	7.43 pH	19.51 °C	480.86 µS/cm	8.06 mg/L	8.59 NTU	127.7 mV	46.28 ft	200.00 ml/min
2/29/2024 3:19 PM	05:00	7.16 pH	20.46 °C	504.43 µS/cm	1.04 mg/L	5.91 NTU	86.8 mV	46.59 ft	200.00 ml/min
2/29/2024 3:24 PM	10:00	7.15 pH	20.26 °C	503.84 µS/cm	0.29 mg/L	3.48 NTU	98.8 mV	46.59 ft	200.00 ml/min
2/29/2024 3:29 PM	15:00	7.14 pH	20.26 °C	506.42 µS/cm	0.21 mg/L	2.23 NTU	137.9 mV	46.59 ft	200.00 ml/min
2/29/2024 3:34 PM	20:00	7.14 pH	20.23 °C	506.40 µS/cm	0.20 mg/L	1.17 NTU	145.1 mV	46.59 ft	200.00 ml/min
2/29/2024 3:39 PM	25:00	7.14 pH	20.00 °C	505.44 µS/cm	0.19 mg/L	0.82 NTU	145.2 mV	46.59 ft	200.00 ml/min
2/29/2024 3:44 PM	30:00	7.14 pH	20.10 °C	506.20 µS/cm	0.20 mg/L	0.55 NTU	149.5 mV	46.59 ft	200.00 ml/min
2/29/2024 3:49 PM	35:00	7.14 pH	19.91 °C	505.55 µS/cm	0.20 mg/L	0.67 NTU	145.0 mV	46.59 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/29/2024 12:12:07 PM
Project: Plant Mitchell (8)
Operator Name: Daniel Howard

Location Name: MIT-PZ-57 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 63.39 ft** **Total Depth: 73.39 ft** **Initial Depth to Water: 26.66 ft**	**Pump Type: QED Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 68.39 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MIT-PZ-57 sample time 1248.

Weather Conditions:
Partly sunny, temp 59 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	
2/29/2024 12:12 PM	00:00	7.14 pH	20.75 °C	548.50 µS/cm	1.58 mg/L	74.10 NTU	91.7 mV	26.66 ft	200.00 ml/min
2/29/2024 12:17 PM	05:00	7.13 pH	20.80 °C	521.06 µS/cm	1.59 mg/L	68.00 NTU	78.7 mV	27.01 ft	200.00 ml/min
2/29/2024 12:22 PM	10:00	7.13 pH	20.97 °C	502.91 µS/cm	1.39 mg/L	41.00 NTU	98.7 mV	27.01 ft	200.00 ml/min
2/29/2024 12:27 PM	15:00	7.13 pH	21.29 °C	520.81 µS/cm	1.96 mg/L	14.60 NTU	135.3 mV	27.01 ft	200.00 ml/min
2/29/2024 12:32 PM	20:00	7.14 pH	20.97 °C	521.83 µS/cm	0.79 mg/L	8.76 NTU	114.7 mV	27.01 ft	200.00 ml/min
2/29/2024 12:37 PM	25:00	7.14 pH	20.95 °C	523.60 µS/cm	0.72 mg/L	5.13 NTU	119.9 mV	27.01 ft	200.00 ml/min
2/29/2024 12:42 PM	30:00	7.14 pH	20.88 °C	524.58 µS/cm	0.70 mg/L	4.13 NTU	123.2 mV	27.01 ft	200.00 ml/min
2/29/2024 12:47 PM	35:00	7.13 pH	21.04 °C	516.97 µS/cm	0.67 mg/L	2.72 NTU	125.8 mV	27.01 ft	200.00 ml/min

Samples

Sample ID:	Description:
MIT-PZ-57	

APPENDIX C
CALIBRATION DATA

Site Name: mitchell

Field Instrumentation Calibration Form

Date: 9-19-2023

Calibrated By: T. Parker

Field Conditions: Clear, Sunny, 61°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu/Aquatroll	877800
Turbidity Meter	Hach/2100Q	15030C039370

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1413 ~~4,490~~	21500094	07/2024	AIR Supplied
pH (SU)	4.00	22250153	11/2023	AIR Supplied
pH (SU)	7.00	22290139	04/2024	AIR Supplied
pH (SU)	10.00	22110130	04/2024	AIR Supplied
D.O. (%)	N/A	MOIST AIR	N/A	N/A
ORP (mV)	228.0	24002258	06/2024	AIR Supplied

Calibration					
Time Start		Before Time Finish Report			
Parameter	Standard	~~Before/After~~ Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	@25°C ~~4,490~~ 1413	µS/cm 1,459	20.03	± 10% of standard	EPA 2023
pH (SU)	pH mV 4.00 1658	4.04 / 4.00	~~20.~~ 21.53	± 0.1	GWMP
pH (SU)	7.00 -8.8	7.07 / 7.02	21.58 9/19/23	± 0.1	GWMP
pH (SU)	10.00 -177.6	10.08 / 10.05	21.55	± 0.1	GWMP
D.O. (%)	N/A	9.28 / 7.98 mg/L	19.06	± 10%	NA
ORP (mV)	228.0	230.6 / 228	20.84	± 10	EPA 2023

After Cal Reading: ✓1,402.5; ✓9.30; ✓227.6

Cell constant 0.967 TDS Conv. 0.65

DO Theory: 9.25 mg/L

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
Lot # A2231	20	18.2	91% ✓	EPA 2023
A2239	100	102	102% ✓	
A2231	800	815	102% ✓	
A2264	10	9.30	93% ✓	

± 10% of standard

Calibration Check						
Time Start		Time Finish				
9-19-23 Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	% Recovery	Acceptance Criteria	Reference
12:15 Specific Conductance (µS/cm)	1,413 ~~4,490~~ 9-19-23	1,353.3	25.86	96% ✓	± 10% of standard	EPA 2023
12:20 pH (SU)	4.00	4.05	26.28	101% ✓	± 0.1 ✓	GWMP
12:22 pH (SU)	7.00	7.01	25.79	100% ✓	± 0.1 ✓	GWMP
12:25 pH (SU)	10.00	10.02	25.15	100% ✓	± 0.1 ✓	GWMP

Turbidity (NTU)	Standard	Calibration Value	% Recovery Acceptance Criteria	Reference
	20	21.0	105%R ✓	EPA 2023
	100	98.1	98%R ✓	
	800	796	99.5%R ✓	
12:30	10	10.5	105% ✓	

± 10% of standard

Notes:

pH Slope + offset #1 = -57.85 mV/pH / -7.7mV

pH Slope + offset #2 = -55.74 mV/pH / -7.7mV

ORP offset = 7.2 mV @ 20.87°C

Saved Cal. File to Calibration Reports

"CALIBRATION_877800_2023-09-19" html

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

07:43 - 08:20

Date: 9-20-2023

Calibrated By: T. Parker

Field Conditions: Partly cloudy, 64°F Terrell Parker

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu/AquaTroll	877800
Turbidity Meter	HACH/2100Q	15030C039370

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	22250153	11/2023	AIR provided
pH (SU)	4.00	22250153	11/2023	AIR Provided
pH (SU)	7.00	22290139	4/2024	Air Provided
pH (SU)	10.00	22110130	4/2024	Air provided
07:46 D.O. (%)	N/A	N/A	Ambient moist AIR	
ORP (mV)	228.0	24002258	6/2024	AIR provided

Calibration					
Time Start 07:43		Time Finish 08:20			
Parameter	Standard	Before/Report Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
(*) Specific Conductance (µS/cm) @25°F	4,490	4,480 ✓	19.82	± 10% of standard	EPA 2023
9/20/23 pH (SU) ~~160~~ 162.4mV	4.00	4.04 / 4.00	19.99	± 0.1	GWMP
pH (SU) -9.7mV	7.00	7.04 / 7.02	19.9	± 0.1	GWMP
pH (SU) -177.3mV	10.00	10.06 / 10.05	19.77	± 0.1	GWMP
07:46 D.O. (%) 1,012.3 mbar	N/A	9.20 / 7.94 mg/L	19.68	± 10%	NA
ORP (mV)	228.0	230.5	19.834	± 10	EPA 2023

9/20/23

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) 07:46	20	21.3	106% Recovery	EPA 2023
	100	97.3	97% Recovery ± 10% of standard	
	800	~~849~~ 819	106% ✓ 9/20/23	102% Recovery
	10	10.8	108% Recovery ✓	

Calibration Check					
Time Start 12:16		Time Finish 12:32			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
(*) Specific Conductance (µS/cm)	4,490	4,410	28.32	✓ ± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	28.69	✓ ± 0.1	GWMP
pH (SU)	7.00	7.01	27.32	✓ ± 0.1	GWMP
pH (SU)	10.00	9.98	27.29	✓ ± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.5	✓	EPA 2023
	100	97.4	✓ ± 10% of standard	
	800	782	✓ 97.8% recovery	
	10	10.8	✓	

Notes:

DO: offset = 0.00 mg/L Slope: 1.151368

Sp. Cond = Cell Constant: 0.001 TDS Conv. = 0.65

pH: Slope + offset #1 = -57mV/pH + -8.5mV

Slope + offset #2 = -55.38 mV/pH + -8.5 mV

ORP: offset: 12.9 mV

(*) entered 4,490 µS/cm on original cal. Results on 1st 2 wells are a factor of 1,000 off. Corrected on field forms.

Recalibrated SC using correct 4,490 µS/cm.

Cell Constant = 1.003 TDS Conversion factor = 0.65 @25°C.

Kept Both Cal Reports

Post Cal Reading: 4,489.4 µS/cm ✓ = 100% Recovery.

Site Name: Plantmitchell

Field Instrumentation Calibration Form

0710 - 0743

Date: 9-21-2023

Calibrated By: T. Parker

Field Conditions: Clear, 66°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu/Aqua Troll	877800
Turbidity Meter	Hach 2100 Q	15030C039370

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	22250153	1/1/2023	AIR Provided
pH (SU)	4.00	22250153	1/1/2023	
pH (SU)	7.00	22290139	4/2024	
pH (SU)	10.00	22110130	4/2024	
D.O. (%)	N/A	N/A	Ambient moist AIR	
ORP (mV)	228.0			AIR Provided

Calibration					
Time Start 07:10		prior to Cal Time Finish Report			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,533.0/4,485.0	20.57	± 10% of standard	EPA 2023
pH (SU) 163.8mV	4.00	3.98/4.00	20.66	± 0.1	GWMP
pH (SU) -10.1mV	7.00	7.03/7.02	20.93	± 0.1	GWMP
pH (SU) -179.3mV	10.00	10.07/10.05	20.93	± 0.1	GWMP
99.98% D.O. (%) ~~100.09% SAT.~~	N/A	9.06mg/L/7.87	20.134	± 10%	NA Baro: 1,012.3 mbar
ORP (mV)	228.0	~~232.9mV/234.5~~ 234.5mV/227.8mV	20.~~[illegible]~~88	± 10	EPA 2023

Theory = 9.06 mg/L

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) 07:17	20	20.6	± 10% of standard	EPA 2023
07:21	100	100		
07:23	800	798		
07:28	10	9.34		

Calibration Check					
Time Start 09:54		Time Finish 10:04 — 97.6% Recovery			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,384.1	22.71	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.71	± 0.1	GWMP
pH (SU)	7.00	7.02	23.13	± 0.1	GWMP
pH (SU)	10.00	9.99	23.43	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) 09:56	20	20.3	± 10% of standard	EPA 2023
09:56	100	102		
09:57	~~800~~ ~~789~~ 820	789	98.6% Recovery	
09:58	10	10.5		

Notes: Do offset = 0.00mg/L, Slope: 1.151533

Sp. Cond: Cell Constant: 0.997 TDS Conv. = 0.65

pH Slope + offset #1 = -57.57 mV/pH -8.8mV

Slop + offset #2 = -55.89mV/pH -8.9mV

ORP: offset: ~~14.7mV @ 20.75°C~~ 9-21-2023

8.2mV @ 20.88°C

Saved to "Calibration Reports"

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

Date: 9/19/23

Calibrated By: Daniel Howard

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll	989630
Turbidity Meter	Hach 2100 Q	22070D00046.3

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	~~4,490~~ 1413	21500094	7/24	AIR
pH (SU)	4.00	24000044	5/24	AIR
pH (SU)	7.00	22290139	4/24	AIR
pH (SU)	10.00	22110130	4/24	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,490~~ 1413	1413	21.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.99	± 0.1	GWMP
pH (SU)	7.00	7.02	21.21	± 0.1	GWMP
pH (SU)	10.00	10.05	22.26	± 0.1	GWMP
D.O. (%)	N/A	7.95	20.12	± 10%	NA
ORP (mV)	228.0	233.2	21.87	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	98.6		
	800	79.5		
ck	10	10.6		

Calibration Check					
Time Start 1316		Time Finish 1325			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,490~~ 1413	1379.4	22.11	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	22.40	± 0.1	GWMP
pH (SU)	7.00	7.04	22.59	± 0.1	GWMP
pH (SU)	10.00	10.05	22.62	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ck	10	10.8	± 10% of standard	EPA 2023

Notes:

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

Date: 9/20/23

Calibrated By: Daniel Howard

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll	489630
Turbidity Meter	Hach 2100 Q	22070D080463

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	~~4,400~~ 1413	21500094	7/24	AIR
pH (SU)	4.00	24000044	5/24	AIR
pH (SU)	7.00	22290139	4/24	AIR
pH (SU)	10.00	22110130	4/24	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,400~~ 1413	1413	21.84	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.83	± 0.1	GWMP
pH (SU)	7.00	7.02	22.10	± 0.1	GWMP
pH (SU)	10.00	10.05	22.05	± 0.1	GWMP
D.O. (%)	N/A	8.03	20.60	± 10%	NA
ORP (mV)	228.0	233.1	21.91	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	101		
	800	800		
ck	10	10.5		

Calibration Check					
Time Start 1250		Time Finish 1301			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,400~~ 1413	1329.7	26.24	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	25.69	± 0.1	GWMP
pH (SU)	7.00	7.03	25.71	± 0.1	GWMP
pH (SU)	10.00	10.00	25.67	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ck	10	10.3	± 10% of standard	EPA 2023

Notes:

Site Name: Plant Mitchell

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 9/21/23

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll	989630
Turbidity Meter	Hach 2100Q	12070D000463

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	~~4,490~~ 1413	21500094	7/24	AIR
pH (SU)	4.00	24000044	5/24	AIR
pH (SU)	7.00	22290139	11/24	AIR
pH (SU)	10.00	22110130	4/24	AIR
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24002258	6/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,490~~ 1413	1413	22.1	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.88	± 0.1	GWMP
pH (SU)	7.00	7.00	22.99	± 0.1	GWMP
pH (SU)	10.00	10.00	23.10	± 0.1	GWMP
D.O. (%)	N/A	8.05	21.14	± 10%	NA
ORP (mV)	228.0	231.8	22.93	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	97.6		
	800	795		
ck	10	10.5		

Calibration Check					
Time Start	1117	Time Finish	1130		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,490~~ 1413	1384.7	26.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	26.26	± 0.1	GWMP
pH (SU)	7.00	7.00	26.07	± 0.1	GWMP
pH (SU)	10.00	10.00	25.69	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU) ck	10	10.3	± 10% of standard	EPA 2023

Notes:

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

Date: 2/27/24

Calibrated By: Daniel Howard

Field Conditions: Partly Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu/AquaTroll	1080302
Turbidity Meter	Hach2100 Q	210300D00600

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AH Instrument
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24004996	11/24	
D.O. (%)	N/A	NA	NA	NA
ORP (mV)	228.0	24006903	11/24	AH Instrument

Calibration					
Time Start 0530		Time Finish 0600			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	23.83	± 10% of standard	EPA 2023
pH (SU)	4.00	~~3.99~~ 4.00	22.58	± 0.1	GWMP
pH (SU)	7.00	7.02	22.26	± 0.1	GWMP
pH (SU)	10.00	10.05	22.16	± 0.1	GWMP
D.O. (%)	N/A	99.31	23.56	± 10%	NA
ORP (mV)	228.0	232.8	22.18	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	104		
	800	819		
	ck 10	9.99		

Calibration Check					
Time Start 1405		Time Finish 1420			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,489	23.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	23.83	± 0.1	GWMP
pH (SU)	7.00	7.03	23.29	± 0.1	GWMP
pH (SU)	10.00	10.01	23.46	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	99.5		
	800	800		
	ck 10	10.3		

Notes:

Site Name: Plant Mitchell

Calibrated By: Daniel Howard

Field Instrumentation Calibration Form

Date: 2/28/24

Field Conditions: Partly Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu/AquaTroll	1080302
Turbidity Meter	Hach 2100Q	210300D00600

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	A+I Instruments
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24003597	11/24	↓
pH (SU)	10.00	24004996	11/24	↓
D.O. (%)	N/A	NA	NA	NA
ORP (mV)	228.0	24006903	11/24	A+I Instruments

Calibration					
Time Start	0535	Time Finish	0605		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	~~7.00~~ 4.00	± 0.1	GWMP
pH (SU)	7.00	7.04	7.00	± 0.1	GWMP
pH (SU)	10.00	10.00	10.00	± 0.1	GWMP
D.O. (%)	N/A	100.31	24.01	± 10%	NA
ORP (mV)	228.0	231.7	22.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	99.8		
	800	ok ~~8.00~~ 804		
	ck 10	9.82		

Calibration Check					
Time Start	1350	Time Finish	1405		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4487	23.75	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.52	± 0.1	GWMP
pH (SU)	7.00	7.04	23.49	± 0.1	GWMP
pH (SU)	10.00	10.04	23.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	102		
	800	802		
	ck 10	9.88		

Notes:

Site Name: Plant Mitchell

Field Instrumentation Calibration Form

Date: 2/29/24

Calibrated By: Daniel Howard

Field Conditions: Partly Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu / AquaTroll	1080302
Turbidity Meter	Hach 2100 Q	21030D00600

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AT Instruments
pH (SU)	4.00	24005593	11/24	↓
pH (SU)	7.00	24003597	11/24	↓
pH (SU)	10.00	24004996	11/24	↓
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	11/24	AT Instrument

Calibration					
Time Start 0525		Time Finish 0650			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.02	± 0.1	GWMP
pH (SU)	7.00	7.00	7.02	± 0.1	GWMP
pH (SU)	10.00	10.00	10.01	± 0.1	GWMP
D.O. (%)	N/A	99.76	22.84	± 10%	NA
ORP (mV)	228.0	231.5	23.17	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	100		
	800	796		
	CK 10	10.2		

Calibration Check					
Time Start 1415		Time Finish 1430			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4451.6	21.73	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	21.64	± 0.1	GWMP
pH (SU)	7.00	7.07	21.18	± 0.1	GWMP
pH (SU)	10.00	10.01	21.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	98.7		
	800	788		
	CK 10	10.1		

Notes:

Site Name: PLANT MITCHELL

Field Instrumentation Calibration Form

Date: 2-28-24

Calibrated By: EVER GUILLEN

Field Conditions: _____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUATROLL	883546
Turbidity Meter	HACH 2100Q	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	11/24	AIR
pH (SU)	4.00	24005593	11/24	AIR
pH (SU)	7.00	24005597	11/24	AIR
pH (SU)	10.00	24004996	11/24	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	AIR

Calibration					
Time Start 1030		Time Finish 1100			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.37	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	21.22	± 0.1	GWMP
pH (SU)	7.00	6.98	21.24	± 0.1	GWMP
pH (SU)	10.00	10.38	21.21	± 0.1	GWMP
D.O. (%)	N/A		—	± 10%	NA
ORP (mV)	228.0	237.5	21.08	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.97	± 10% of standard	EPA 2023
	20	19.1		
	100	99.7		
	800	796		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	21.22	± 0.1	GWMP
pH (SU)	7.00	6.98	21.24	± 0.1	GWMP
pH (SU)	10.00	10.38	21.21	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.97	± 10% of standard	EPA 2023
	20	19.1		
	100	99.7		
	800	796		

Notes:

Site Name: PLANT MITCHELL

Field Instrumentation Calibration Form

Date: 2-29-24

Calibrated By: EVER GUILLEN

Field Conditions:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUATROLL	BB3546
Turbidity Meter	HACH 2100Q	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2400 5593	11/24	AIR
pH (SU)	4.00	2400 5593	11/24	AIR
pH (SU)	7.00	2400 3597	11/24	AIR
pH (SU)	10.00	2400 4996	11/24	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/24	AIR

Calibration					
Time Start 730		Time Finish 800			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4407	17.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	18.31	± 0.1	GWMP
pH (SU)	7.00	7.04	18.26	± 0.1	GWMP
pH (SU)	10.00	10.11	18.30	± 0.1	GWMP
D.O. (%)	N/A	—	—	± 10%	NA
ORP (mV)	228.0	237.5	18.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	19.7		
	100	101		
	800	792		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4379		± 10% of standard	EPA 2023
pH (SU)	4.00	4.01		± 0.1	GWMP
pH (SU)	7.00	6.97		± 0.1	GWMP
pH (SU)	10.00	9.98		± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	19.5		
	100	103		
	800	789		

Notes:

APPENDIX D
STATISTICAL ANALYSES

SEPTEMBER 2023 EVENT

GROUNDWATER STATS CONSULTING

February 28, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
September 2023 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2023 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical analysis of groundwater data for Georgia Power Company's Plant Mitchell Ash Pond. 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 parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** PZ-1D, PZ-2D, PZ-31, and PZ-32
- **Downgradient wells:** PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-57

Note that well PZ-23 was abandoned and was replaced with well PZ-23A which was first sampled in March 2020. Since new well PZ-23A was installed in close proximity to well PZ-23, the data from the two wells were combined. Additionally, downgradient well PZ-57 was first sampled in January 2022 and has been sampled four times. Data for this well are plotted on time series and box plots, and formal statistics are conducted when a minimum of 4 samples are available for Appendix IV constituents and a minimum of 8 samples are available for Appendix III constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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. Summaries of well/constituent pairs with 100% non-detects since 2016 for Appendix IV constituents follow this letter.

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, described below, 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 screening report to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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.

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the March 2019 evaluation for state and federal regulatory requirements described below, 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 each Appendix III constituent
- 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 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, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent 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 for parametric limits. 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 screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Summary of Initial Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified and the reports were submitted with the screening. In cases where the most recent value was identified as an outlier, values were not flagged in the database at that time as they may represent a future trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the values identified by Tukey's method, only a few of these values were flagged in the database as outliers since all other values were similar to remaining measurements within a given well or neighboring wells or were non-detects.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends, and the reports were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed one statistically significant decreasing trend for chloride at well PZ-25. This trend was relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data set.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. 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.

The ANOVA identified no variation among upgradient well data for boron and fluoride, making these constituents eligible for interwell analyses. Variation was noted for calcium, chloride, pH, sulfate and TDS. 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.

Statistical Analysis of Appendix III Parameters – September 2023 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed using time series for potential outliers during this analysis. No additional values were flagged as outliers and a summary of previously flagged outliers follows this report (Figure C). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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. A summary table of the interwell prediction limits follows this letter. The following interwell prediction limit exceedances were noted for the Appendix III parameters:

- Boron: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- Calcium: PZ-18, PZ-19, and PZ-23A
- Chloride: PZ-15 and PZ-16
- pH (lower limit): PZ-14, PZ-18, PZ-19, and PZ-23A

- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-15, PZ-18, PZ-19, PZ-23A, and PZ-25

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level 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 variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:
- Calcium: PZ-18, PZ-31 (upgradient), and PZ-32 (upgradient)
- Sulfate: PZ-14 and PZ-23A

Decreasing:
- Boron: PZ-2D (upgradient), PZ-7D, and PZ-17
- Chloride: PZ-15, PZ-16, and PZ-31 (upgradient)
- Sulfate: PZ-2D (upgradient), PZ-7D, PZ-16, PZ-17, PZ-19, PZ-25, PZ-31 (upgradient), and PZ-33

Statistical Analysis of Appendix IV Parameters – September 2023

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. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2023 for each Appendix IV constituent (Figure F). Parametric limits are constructed when data follow a normal or

transformed-normal distribution with a target of 95% confidence and 95% coverage. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits are used.

Groundwater Protection Standards

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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents using data through September 2023 in accordance with the state requirements in each downgradient well (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects did not require analysis. All downgradient wells contained 100% non-detects for beryllium; therefore, this constituent was not analyzed with confidence intervals.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits,

were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Due to the sample size, the lower confidence limits resulted in negative numbers for some well/constituent pairs. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

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. No exceedances were identified and summaries and graphical results of the confidence intervals analyses follow this letter.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Since no confidence interval exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Mitchell Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/6/2023 12:16 PM View: Confidence Interval
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L)
PZ-25, PZ-57

Arsenic (mg/L)
PZ-16, PZ-18, PZ-57, PZ-7D

Beryllium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, PZ-7D

Cadmium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-57, PZ-7D

Chromium (mg/L)
PZ-15, PZ-17, PZ-25

Cobalt (mg/L)
PZ-7D

Lead (mg/L)
PZ-14, PZ-17, PZ-25, PZ-57

Lithium (mg/L)
PZ-16, PZ-33

Mercury (mg/L)
PZ-57

Molybdenum (mg/L)
PZ-18, PZ-33, PZ-7D

Selenium (mg/L)
PZ-16, PZ-17, PZ-18, PZ-25, PZ-33, PZ-57

Thallium (mg/L)
PZ-57

Appendix III Interwell Prediction Limit - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02672	n/a	9/20/2023	0.18	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02672	n/a	9/19/2023	0.19	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02672	n/a	9/20/2023	0.1	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02672	n/a	9/20/2023	0.41	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02672	n/a	9/20/2023	0.62	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02672	n/a	9/20/2023	0.15	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02672	n/a	9/19/2023	0.18	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02672	n/a	9/21/2023	0.45	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02672	n/a	9/20/2023	0.19	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.6	n/a	9/20/2023	129	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.6	n/a	9/20/2023	143	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.6	n/a	9/20/2023	131	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.427	n/a	9/20/2023	6.2	Yes	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.427	n/a	9/19/2023	5.9	Yes	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	9/20/2023	6.94	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	9/20/2023	6.76	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	9/20/2023	6.83	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	9/20/2023	6.86	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.248	n/a	9/20/2023	12.5	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.248	n/a	9/20/2023	74.9	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.248	n/a	9/19/2023	37.5	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.248	n/a	9/20/2023	34.3	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.248	n/a	9/20/2023	93.8	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.248	n/a	9/20/2023	83.4	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.248	n/a	9/20/2023	44.3	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.248	n/a	9/19/2023	34.7	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.248	n/a	9/21/2023	34.8	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.248	n/a	9/20/2023	40.7	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	306.8	n/a	9/20/2023	328	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	306.8	n/a	9/20/2023	451	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	306.8	n/a	9/20/2023	512	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	306.8	n/a	9/20/2023	421	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	306.8	n/a	9/19/2023	311	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02672	n/a	9/20/2023	0.027J	No	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02672**	**n/a**	**9/20/2023**	**0.18**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02672**	**n/a**	**9/19/2023**	**0.19**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02672**	**n/a**	**9/20/2023**	**0.1**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02672**	**n/a**	**9/20/2023**	**0.41**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02672**	**n/a**	**9/20/2023**	**0.62**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02672**	**n/a**	**9/20/2023**	**0.15**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02672**	**n/a**	**9/19/2023**	**0.18**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02672**	**n/a**	**9/21/2023**	**0.45**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02672**	**n/a**	**9/20/2023**	**0.19**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.6	n/a	9/20/2023	98.2	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.6	n/a	9/20/2023	89.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.6	n/a	9/19/2023	83.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.6	n/a	9/20/2023	73.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.6**	**n/a**	**9/20/2023**	**129**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.6**	**n/a**	**9/20/2023**	**143**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.6**	**n/a**	**9/20/2023**	**131**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.6	n/a	9/19/2023	80.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.6	n/a	9/21/2023	81.4	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.6	n/a	9/20/2023	94.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.427	n/a	9/20/2023	4.3	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-15**	**4.427**	**n/a**	**9/20/2023**	**6.2**	**Yes**	**72**	**1.083**	**0.203**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.427**	**n/a**	**9/19/2023**	**5.9**	**Yes**	**72**	**1.083**	**0.203**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.427	n/a	9/20/2023	2.1	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.427	n/a	9/20/2023	4.2	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.427	n/a	9/20/2023	4.1	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.427	n/a	9/20/2023	2.8	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.427	n/a	9/19/2023	1.6	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.427	n/a	9/21/2023	2.8	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.427	n/a	9/20/2023	3.4	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	9/20/2023	0.064J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	9/19/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	9/20/2023	0.073J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	9/20/2023	0.082J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	9/20/2023	0.062J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	9/19/2023	0.14	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	9/21/2023	0.074J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**9/20/2023**	**6.94**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	9/20/2023	7.07	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	9/19/2023	7.08	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	9/20/2023	7.16	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**9/20/2023**	**6.76**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**9/20/2023**	**6.83**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**9/20/2023**	**6.86**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	9/19/2023	7.18	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	9/21/2023	7.05	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	9/20/2023	7.15	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**6.248**	**n/a**	**9/20/2023**	**12.5**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.248**	**n/a**	**9/20/2023**	**74.9**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.248**	**n/a**	**9/19/2023**	**37.5**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.248**	**n/a**	**9/20/2023**	**34.3**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.248**	**n/a**	**9/20/2023**	**93.8**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**6.248**	**n/a**	**9/20/2023**	**83.4**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.248**	**n/a**	**9/20/2023**	**44.3**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.248**	**n/a**	**9/19/2023**	**34.7**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.248**	**n/a**	**9/21/2023**	**34.8**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.248**	**n/a**	**9/20/2023**	**40.7**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	306.8	n/a	9/20/2023	293	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**306.8**	**n/a**	**9/20/2023**	**328**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	306.8	n/a	9/19/2023	298	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	306.8	n/a	9/20/2023	256	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-18**	**306.8**	**n/a**	**9/20/2023**	**451**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**306.8**	**n/a**	**9/20/2023**	**512**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**306.8**	**n/a**	**9/20/2023**	**421**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-25**	**306.8**	**n/a**	**9/19/2023**	**311**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	PZ-33	306.8	n/a	9/21/2023	300	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	306.8	n/a	9/20/2023	302	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 11/7/2023, 11:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-17	-0.02217	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001058	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02819	-107	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.466	98	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	1.991	70	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.692	89	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2032	-80	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.3	-100	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2744	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.587	108	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.326	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-7.28	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.396	-80	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	3.367	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.366	-123	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.5126	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.7829	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-11.6	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.054	-82	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 11/7/2023, 11:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.00257	-35	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	2	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-17**	**-0.02217**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-18	0.004011	24	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01271	-41	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0005119	29	68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.003324	-45	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005868	-68	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-2D (bg)**	**-0.001058**	**-72**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-31 (bg)	0.0002114	14	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0002542	-18	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01088	-76	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.02819**	**-107**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.466**	**98**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.7565	19	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.5	60	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	1.401	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	1.191	31	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**1.991**	**70**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.692**	**89**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2032**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.3**	**-100**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06457	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03794	-40	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2744**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1172	-66	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	PZ-14	0.009335	16	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.0239	-69	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.003509	10	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01774	-52	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.01479	37	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1692	-28	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.002946	-13	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.007302	24	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.587**	**108**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.07935	1	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.326**	**-112**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.28**	**-90**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-18	-0.5562	-24	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.396**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	-0.02819	-19	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**3.367**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.366**	**-123**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.5126**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.7829**	**-112**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.03079	-29	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.6**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.054**	**-82**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-15	3.409	24	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	3.855	40	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-3.045	-9	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.045	30	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	3.891	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-25	-5.497	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	3.124	17	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.1792	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.808	42	68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 12:09 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	n/a	n/a	72	56.94	n/a	n/a	0.02489	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	64	87.5	n/a	n/a	0.03752	NP Inter(NDs)
Barium (mg/L)	0.04563	n/a	n/a	n/a	72	1.389	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	56	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	56	100	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	n/a	72	25	n/a	n/a	0.02489	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	n/a	72	97.22	n/a	n/a	0.02489	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.61	n/a	n/a	n/a	70	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	n/a	76	44.74	n/a	n/a	0.02028	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	72	81.94	n/a	n/a	0.02489	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	72	79.17	n/a	n/a	0.02489	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	64	90.63	n/a	n/a	0.03752	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	n/a	72	76.39	n/a	n/a	0.02489	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	72	100	n/a	n/a	0.02489	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	72	90.28	n/a	n/a	0.02489	NP Inter(NDs)

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.046	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.61	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/14/2024, 10:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	18	0.002757	0.0007112	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	18	0.002854	0.0006199	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	18	0.002617	0.0008849	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No	18	0.0029	0.0005325	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	18	0.002858	0.0006034	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	18	0.002782	0.000673	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	18	0.002733	0.0007816	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	18	0.002557	0.00102	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	16	0.004739	0.001042	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	16	0.004224	0.00167	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	16	0.004195	0.001731	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	16	0.00471	0.00116	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.001	0.01	No	16	0.004002	0.001798	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	16	0.004477	0.001428	87.5	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02871	0.01571	2	No	18	0.02333	0.01312	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0617	0.048	2	No	18	0.058	0.01462	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.046	0.034	2	No	18	0.04211	0.01266	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07771	0.06799	2	No	18	0.07285	0.008036	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0273	0.023	2	No	18	0.02889	0.01253	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05789	0.05221	2	No	18	0.05505	0.004699	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04841	0.03649	2	No	18	0.04278	0.01032	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	18	0.105	0.006316	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.06779	0.04798	2	No	17	0.05788	0.01581	0	None	No	0.01	Param.
Barium (mg/L)	PZ-57	0.14	0.062	2	No	4	0.08225	0.03851	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-7D	0.009122	0.006648	2	No	18	0.008056	0.002266	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	14	0.0004571	0.0001089	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	14	0.0004714	0.0001069	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.01	0.0012	0.1	No	18	0.005675	0.004457	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No	18	0.003017	0.002049	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	18	0.004753	0.001047	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	18	0.004763	0.001006	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.0044	0.0015	0.1	No	18	0.003333	0.003158	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	18	0.004817	0.0007778	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-57	0.005	0.0013	0.1	No	4	0.004075	0.00185	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002053	0.0008136	0.1	No	18	0.004156	0.003837	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	18	0.004572	0.001279	88.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.006	No	18	0.003778	0.002035	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No	18	0.003534	0.002137	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	18	0.004783	0.0009192	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	18	0.004561	0.001278	88.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00067	0.006	No	18	0.003769	0.002045	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0017	0.001	0.006	No	18	0.001536	0.0009468	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0008	0.006	No	18	0.003768	0.001945	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-57	0.005	0.00051	0.006	No	4	0.002752	0.002227	25	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.881	0.317	5	No	18	0.6547	0.5407	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.01	0.7004	5	No	18	0.882	0.3149	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8244	0.4216	5	No	18	0.623	0.3329	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.114	0.5673	5	No	17	0.8408	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.12	0.479	5	No	16	0.7996	0.4927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.285	0.7336	5	No	18	1.009	0.4555	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.135	0.6664	5	No	18	0.9007	0.3873	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.158	0.7444	5	No	18	0.9513	0.3421	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9809	0.5706	5	No	18	0.7757	0.339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-57	1.13	0.193	5	No	4	0.553	0.4041	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6043	0.2543	5	No	18	0.4588	0.317	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	19	0.08984	0.02401	63.16	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/14/2024, 10:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.1079	0.0675	4	No	19	0.1029	0.0441	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	19	0.08284	0.02414	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1175	0.05745	4	No	19	0.1135	0.06142	31.58	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	19	0.09953	0.03287	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.064	4	No	19	0.1114	0.07282	10.53	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.057	4	No	19	0.09642	0.05516	36.84	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2249	0.1481	4	No	19	0.19	0.07	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.074	4	No	19	0.1025	0.04005	52.63	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-57	0.09806	0.04744	4	No	4	0.07275	0.01115	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-7D	0.1	0.05	4	No	19	0.08695	0.03046	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	18	0.0009472	0.0002239	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	18	0.0009489	0.0002166	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	18	0.0009151	0.0002559	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	18	0.0009468	0.0002258	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	18	0.0008475	0.0003514	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	18	0.0008965	0.0003013	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	18	0.0285	0.006364	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.05	0.0012	0.04	No	18	0.01481	0.02246	27.78	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.0029	0.002	0.04	No	18	0.004739	0.007386	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0025	0.04	No	18	0.0052	0.007209	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01432	0.01079	0.04	No	18	0.01256	0.00292	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	18	0.02033	0.01408	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006815	0.005641	0.04	No	18	0.006172	0.001049	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-57	0.002482	0.00002324	0.04	No	4	0.001253	0.0005414	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0037	0.0023	0.04	No	18	0.009694	0.02878	5.556	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	16	0.0001887	0.00003403	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	16	0.0001936	0.00002575	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	16	0.0001917	0.000033	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	16	0.0001929	0.0000285	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	16	0.0001911	0.00003575	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	16	0.0001841	0.00004469	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	16	0.0001912	0.00002802	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	16	0.0001908	0.00003675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	16	0.0001746	0.00005641	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	16	0.0001821	0.00004903	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	18	0.009472	0.002239	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0024	0.0019	0.1	No	18	0.002289	0.0007259	5.556	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	18	0.008983	0.00296	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	18	0.0095	0.002121	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-57	0.01	0.00085	0.1	No	4	0.007712	0.004575	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	18	0.004594	0.001181	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	18	0.004822	0.0007542	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0024	0.05	No	18	0.0057	0.003618	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.01	0.0023	0.05	No	18	0.005267	0.003904	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	18	0.003722	0.001649	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	18	0.0009478	0.0002216	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	18	0.0007339	0.0003881	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	18	0.0007224	0.0004052	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00024	0.002	No	18	0.0006072	0.0003671	44.44	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	18	0.0008423	0.0003629	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006566	0.0004811	0.002	No	18	0.0005689	0.000145	5.556	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00017	0.002	No	18	0.0005956	0.0004182	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	18	0.0006778	0.0003123	44.44	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	18	0.0007572	0.0004032	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0001	0.002	No	18	0.0007535	0.0004097	72.22	None	No	0.01	NP (NDs)

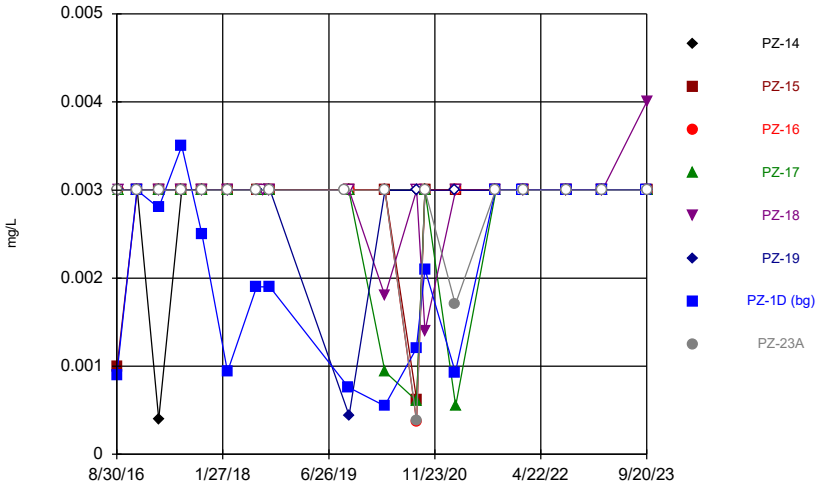
Table of Contents

Figure A. Time Series	22
Figure B. Box Plots	95
Figure C. Outlier Summary	107
Figure D. Appendix III Interwell Prediction Limits	109
Figure E. Appendix III Trend Tests	143
Figure F. Upper Tolerance Limits	161
Figure G. Groundwater Protection Standards	163
Figure H. Confidence Intervals	165

FIGURE A.

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

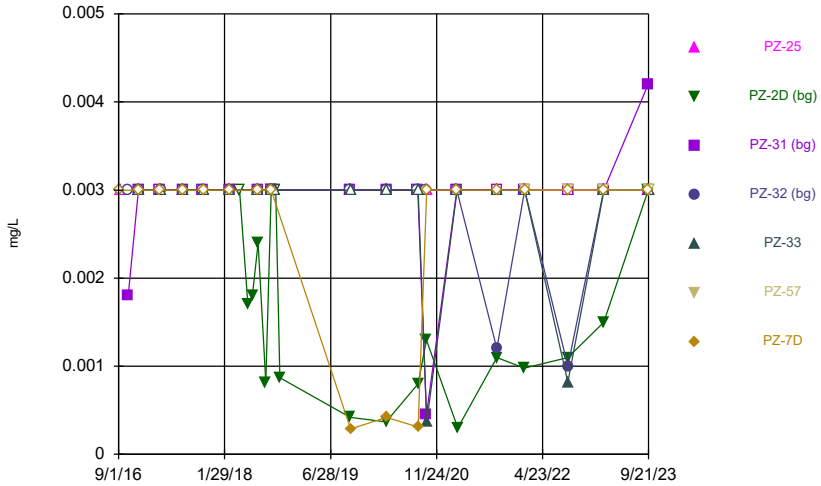
Time Series



Constituent: Antimony Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

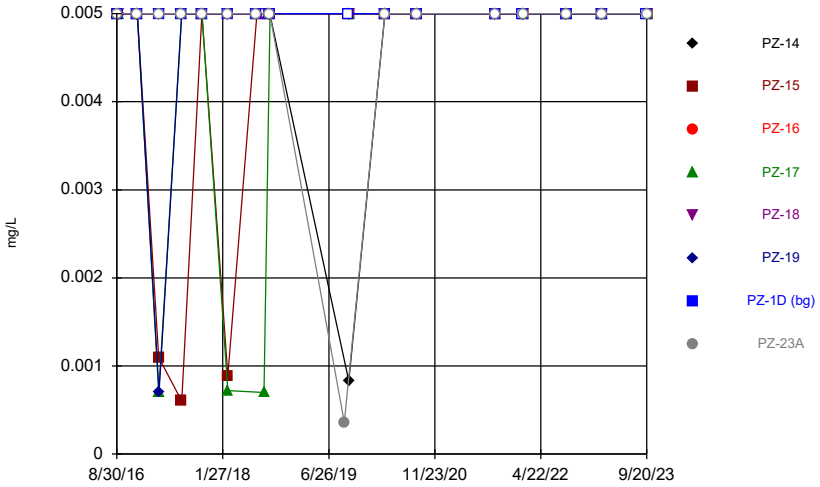
Time Series



Constituent: Antimony Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

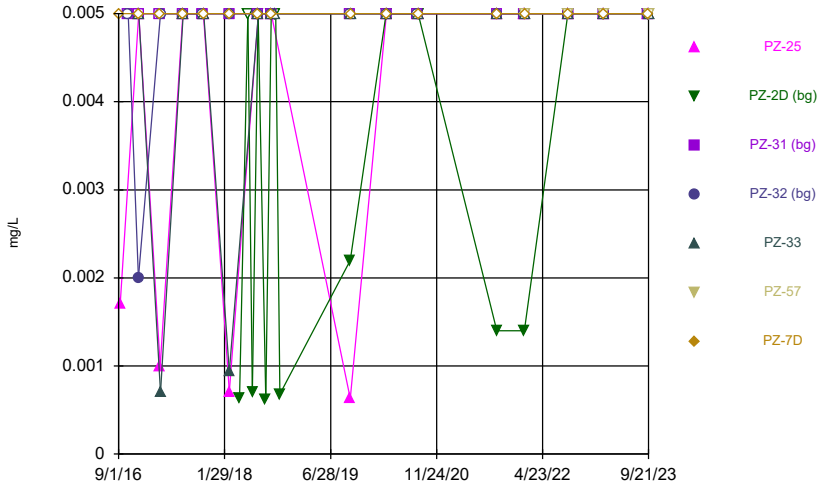
Time Series



Constituent: Arsenic Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

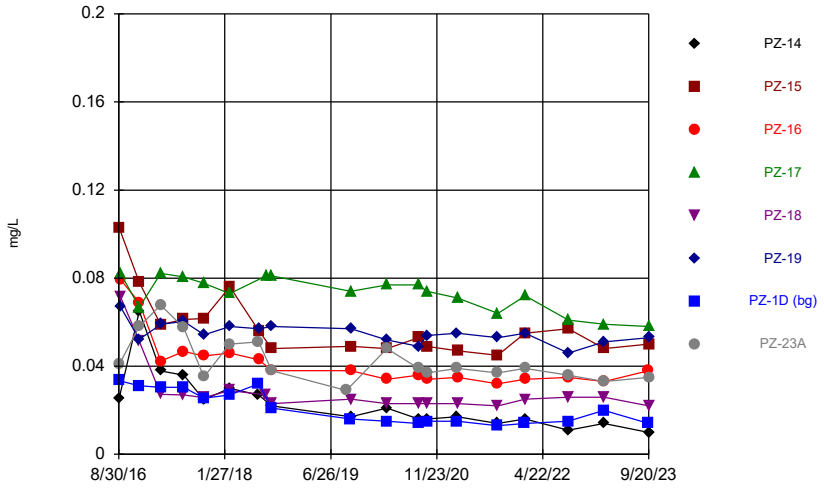
Time Series



Constituent: Arsenic Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

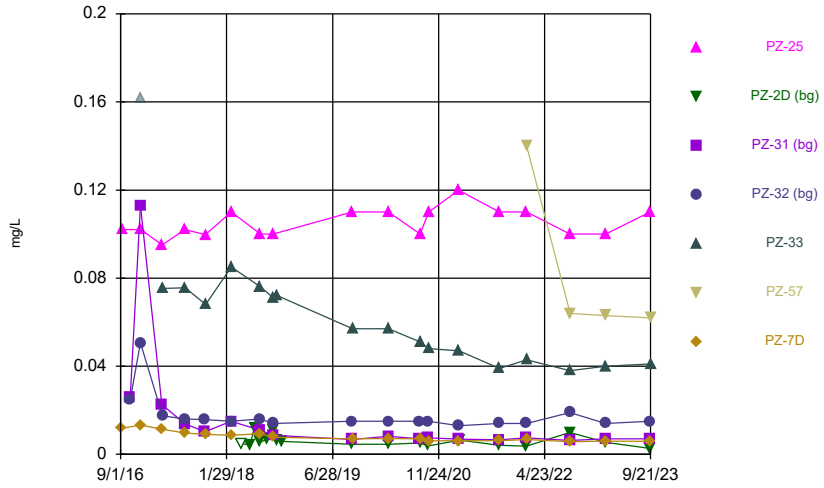
Time Series



Constituent: Barium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

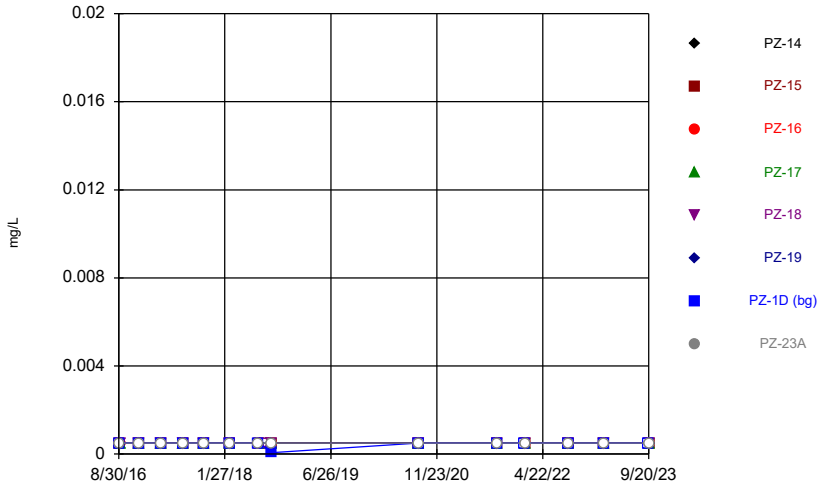
Time Series



Constituent: Barium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

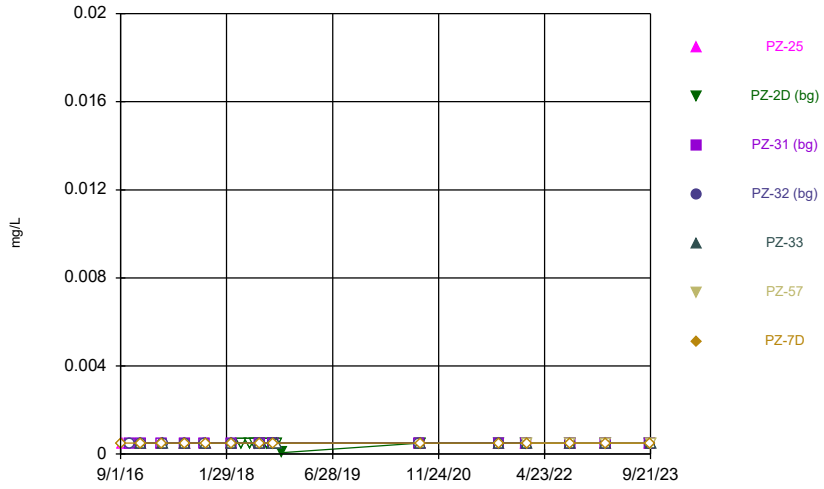
Time Series



Constituent: Beryllium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

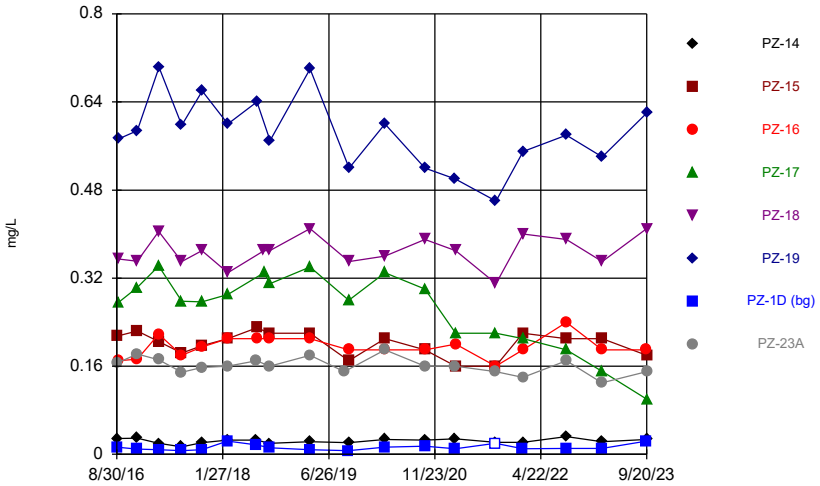
Time Series



Constituent: Beryllium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

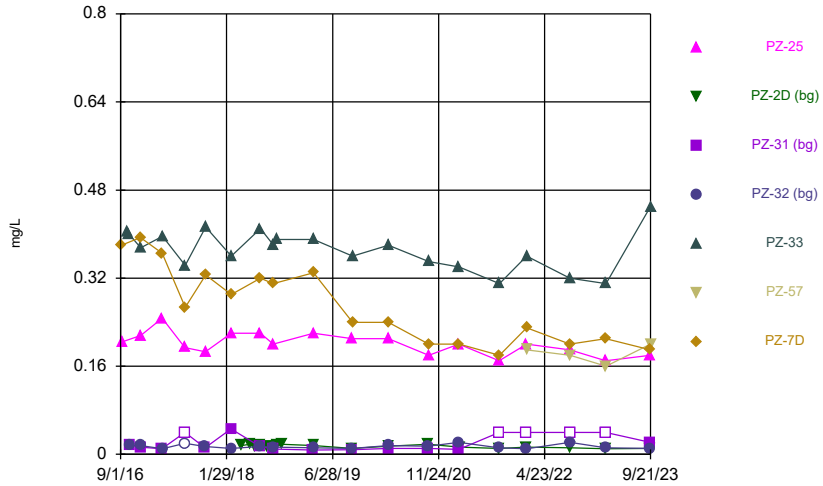
Time Series



Constituent: Boron Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

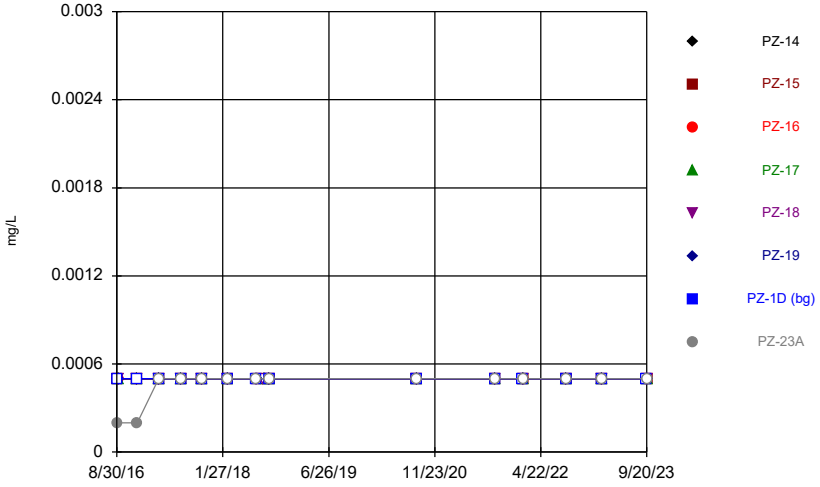
Time Series



Constituent: Boron Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

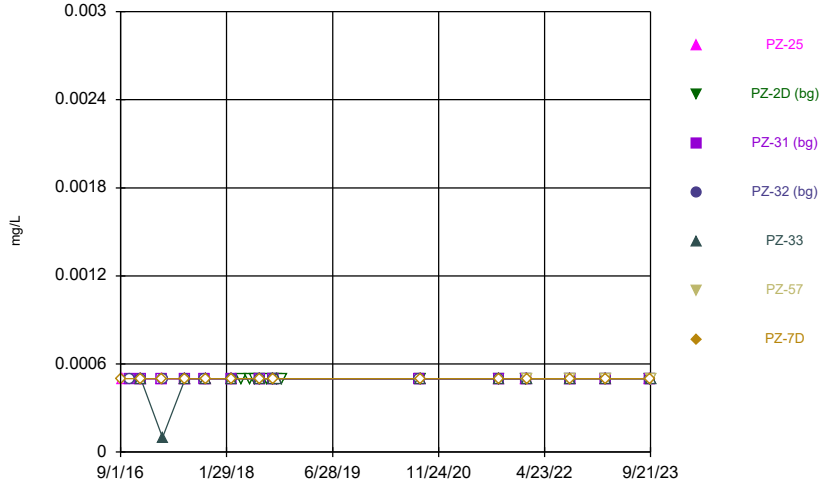
Time Series



Constituent: Cadmium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

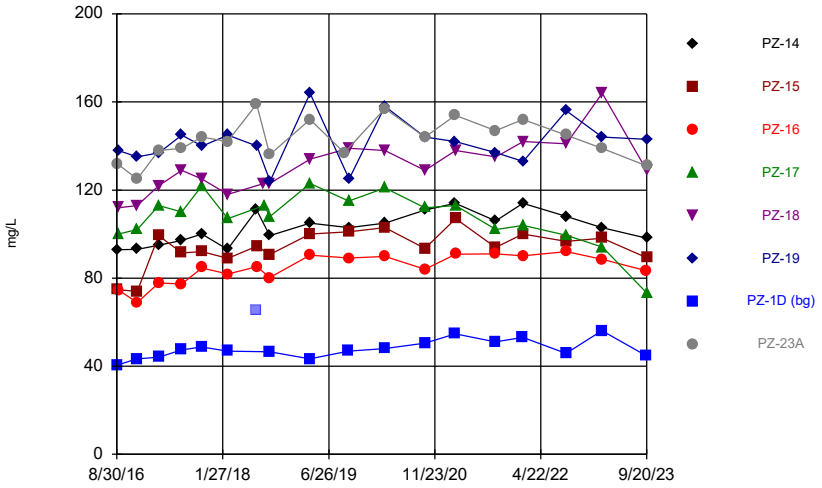
Time Series



Constituent: Cadmium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

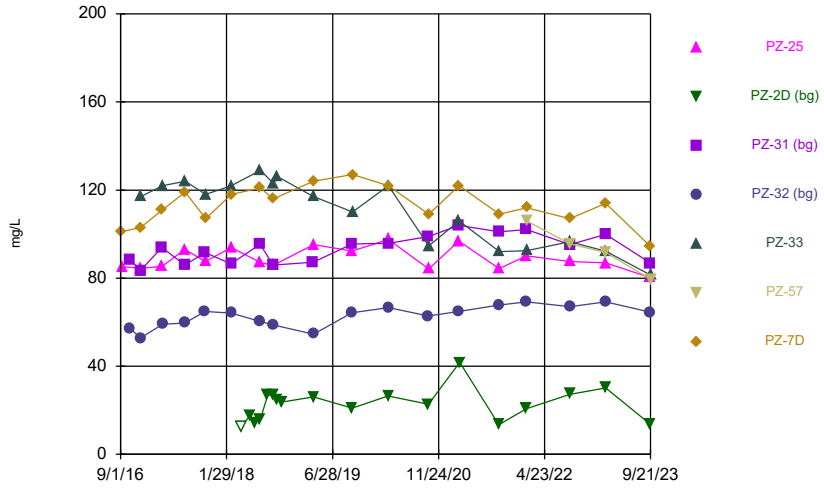
Time Series



Constituent: Calcium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

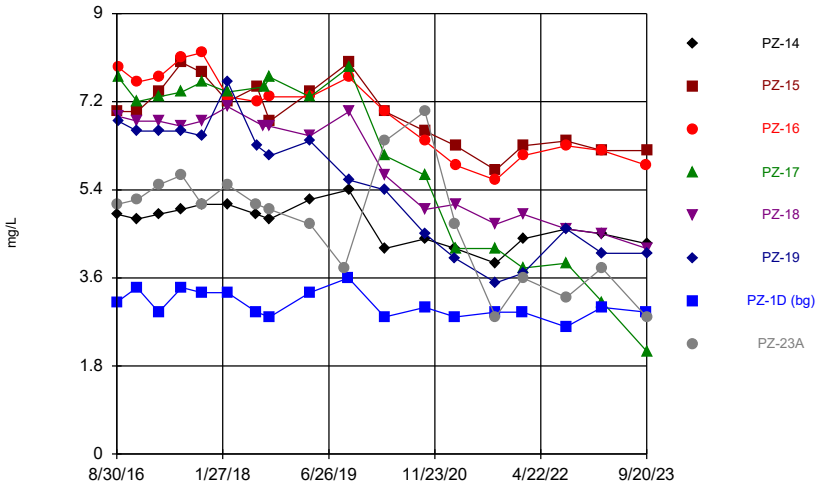
Time Series



Constituent: Calcium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

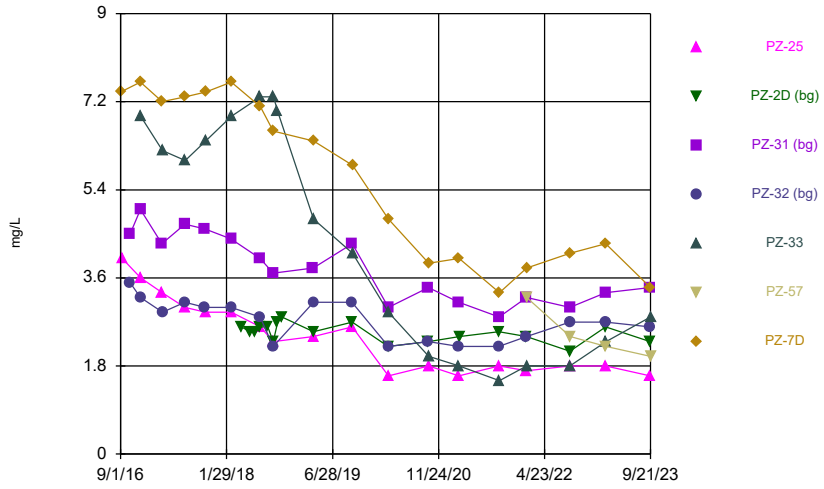
Time Series



Constituent: Chloride Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

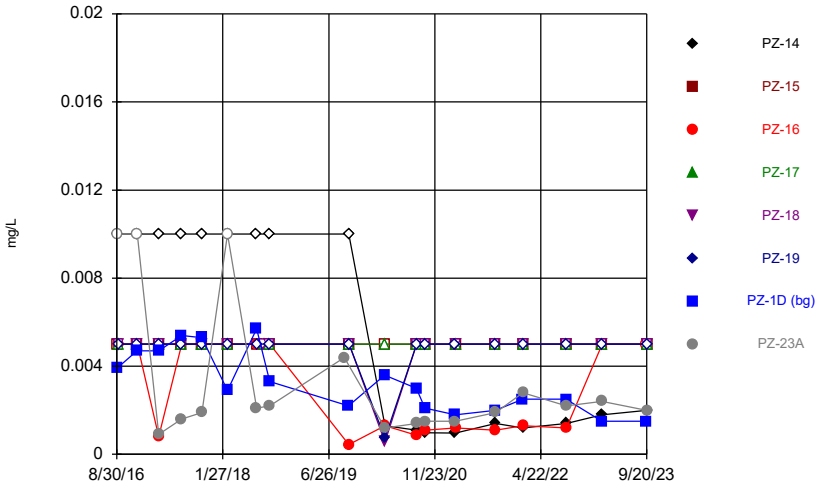
Time Series



Constituent: Chloride Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

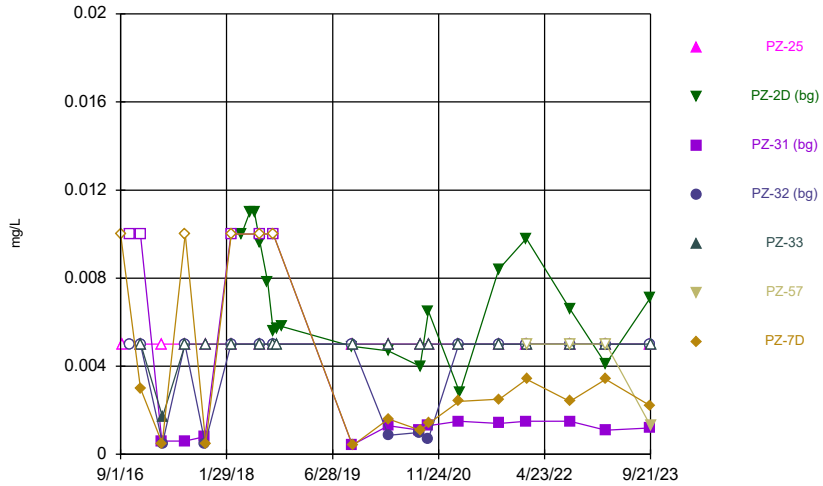
Time Series



Constituent: Chromium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

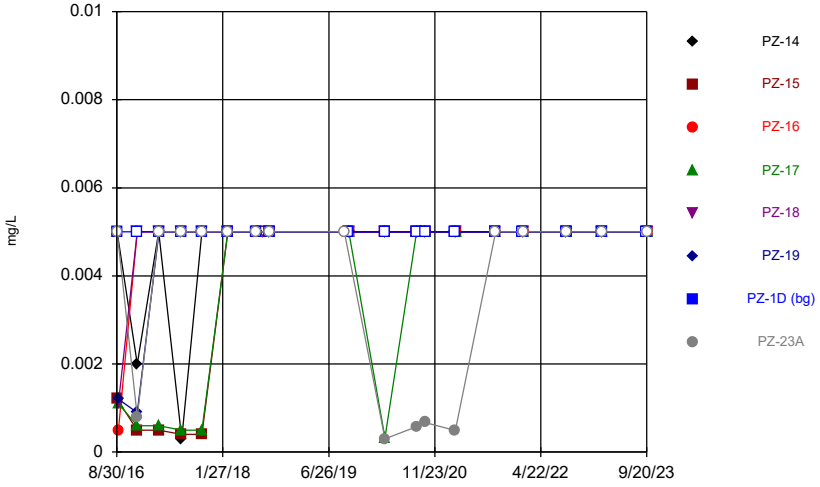
Time Series



Constituent: Chromium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

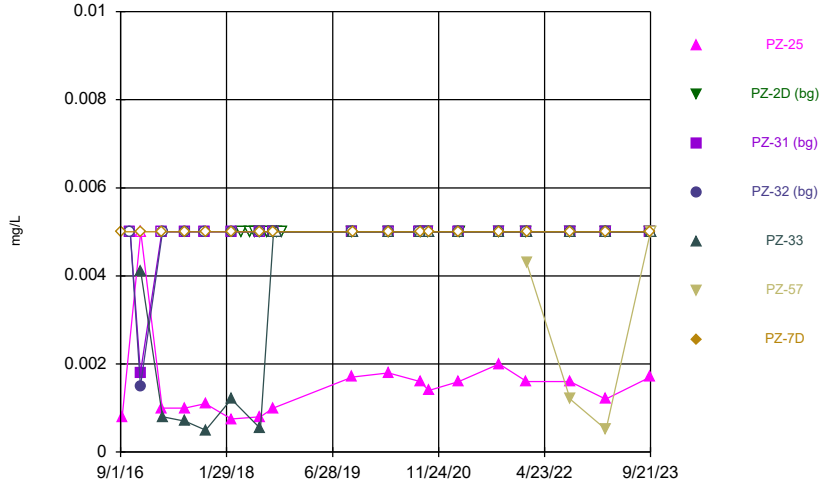
Time Series



Constituent: Cobalt Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

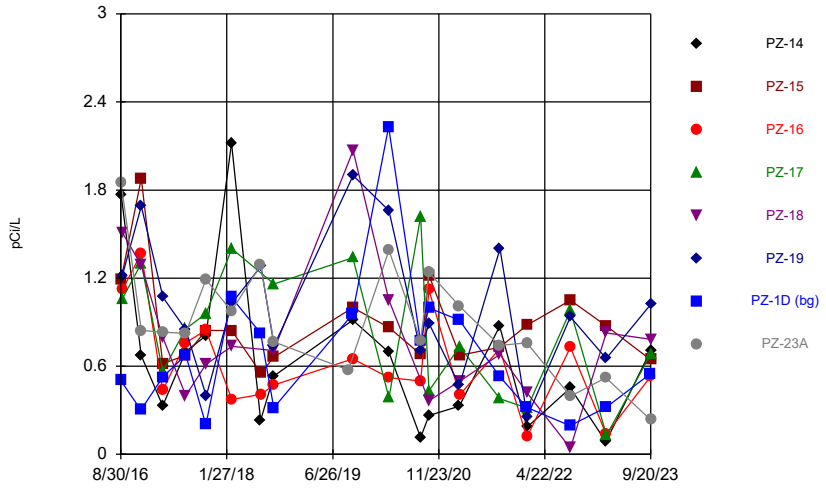
Time Series



Constituent: Cobalt Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

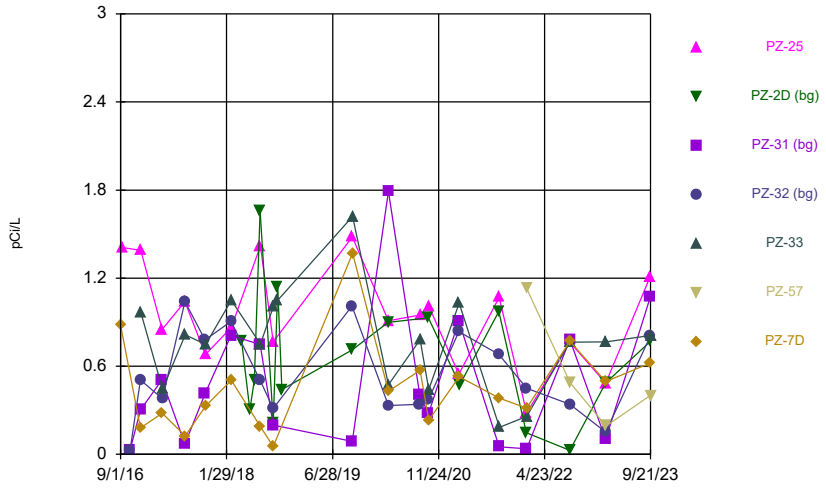
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plo
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

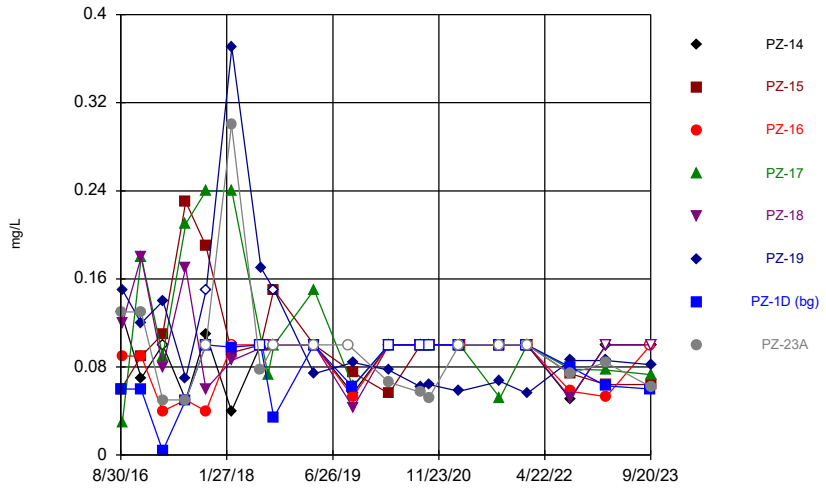
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plo
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

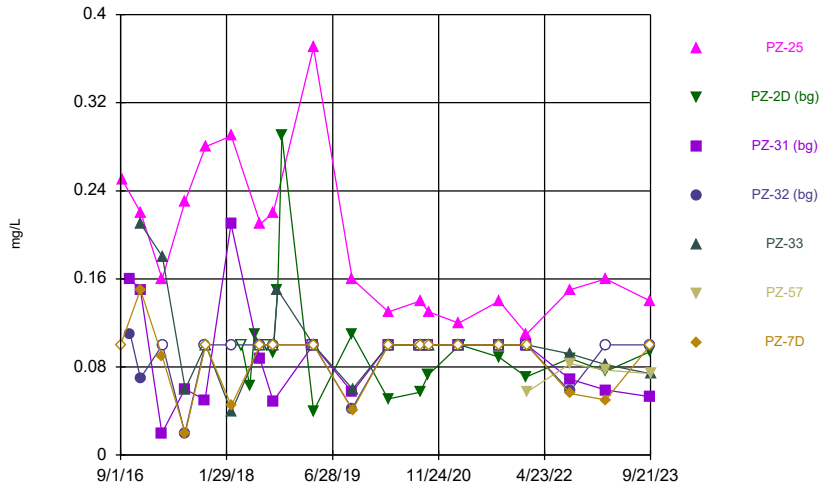
Time Series



Constituent: Fluoride Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

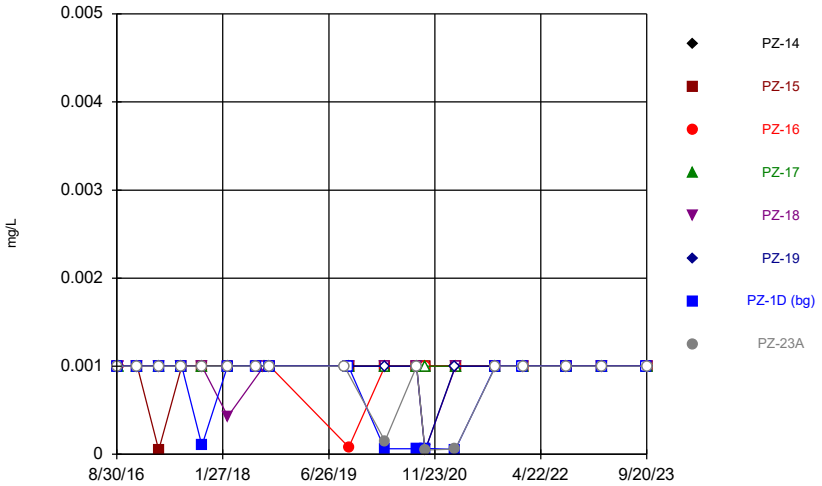
Time Series



Constituent: Fluoride Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

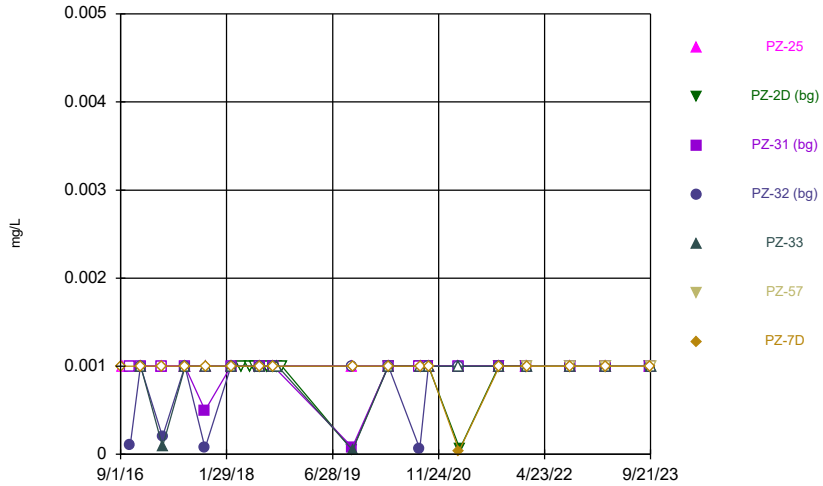
Time Series



Constituent: Lead Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

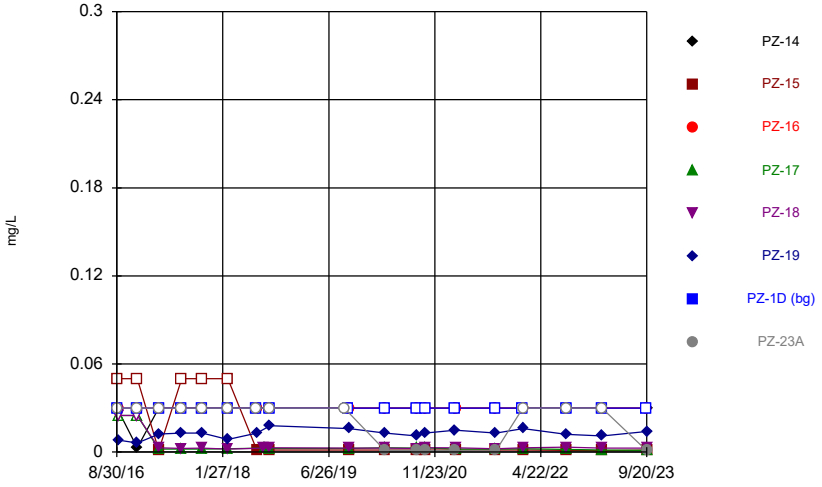
Time Series



Constituent: Lead Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

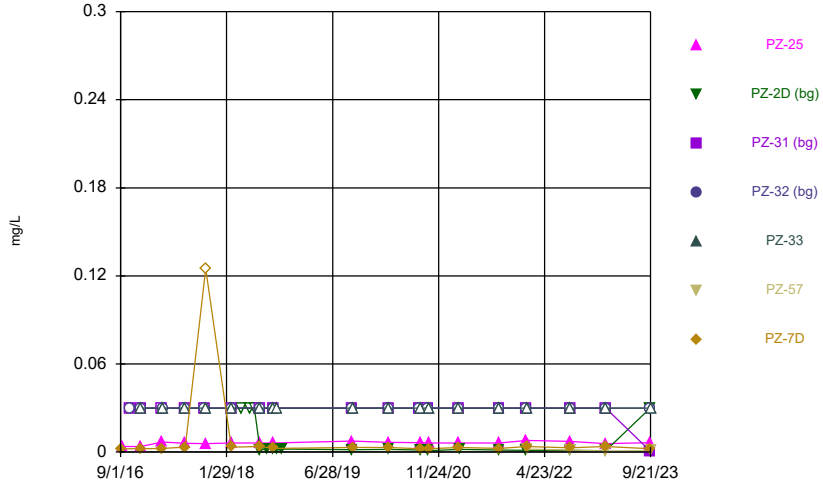
Time Series



Constituent: Lithium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

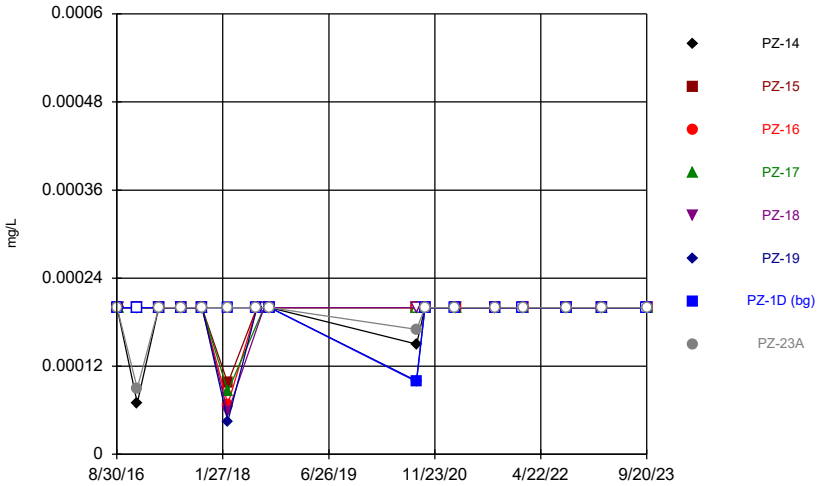
Time Series



Constituent: Lithium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

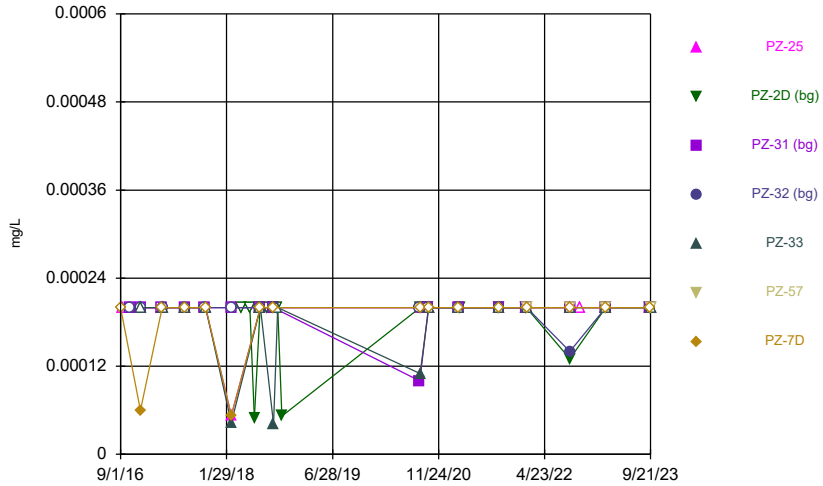
Time Series



Constituent: Mercury Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

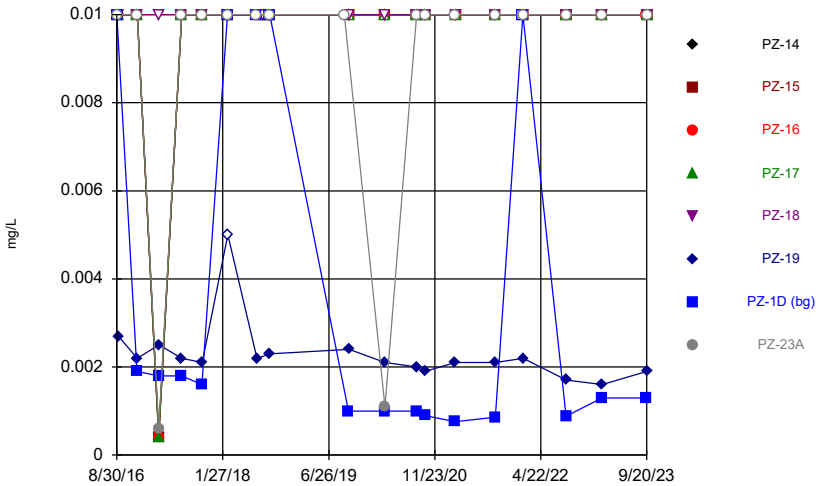
Time Series



Constituent: Mercury Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

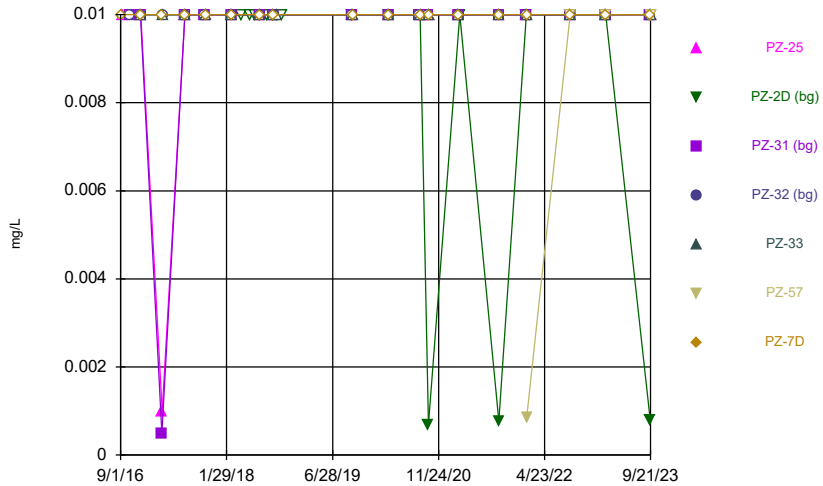
Time Series



Constituent: Molybdenum Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

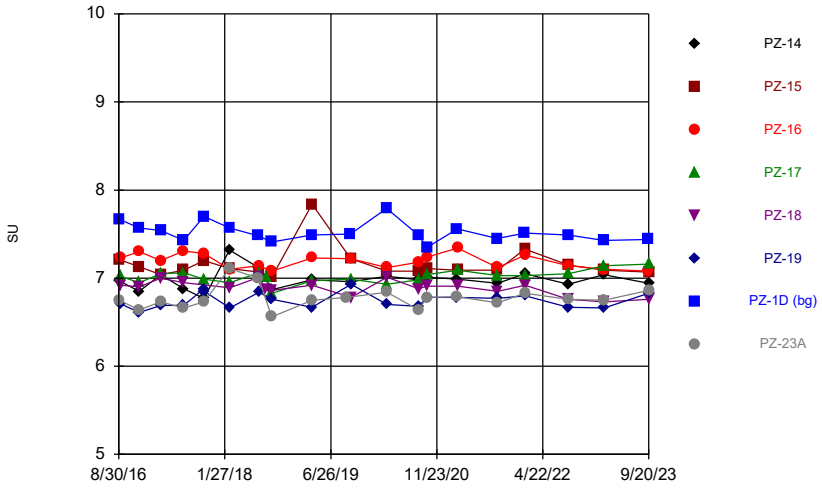
Time Series



Constituent: Molybdenum Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

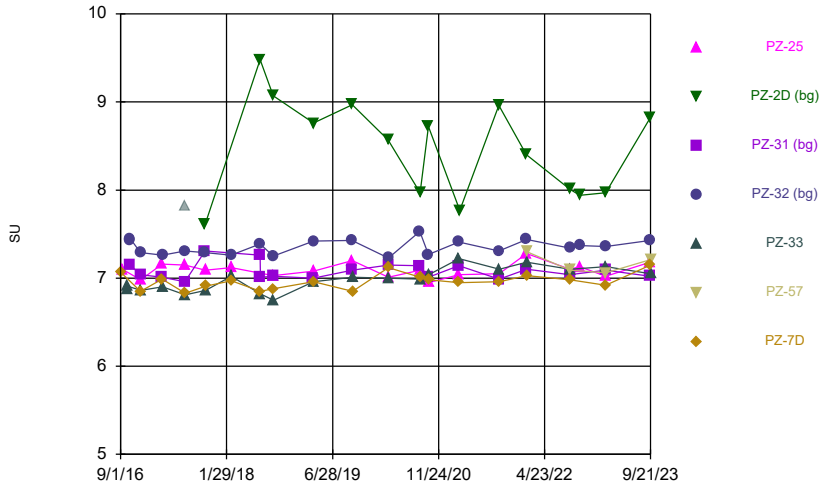
Time Series



Constituent: pH Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

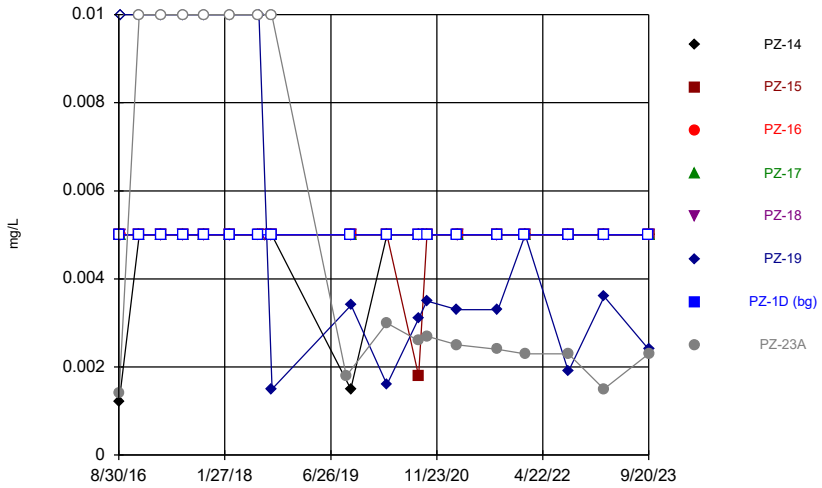
Time Series



Constituent: pH Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

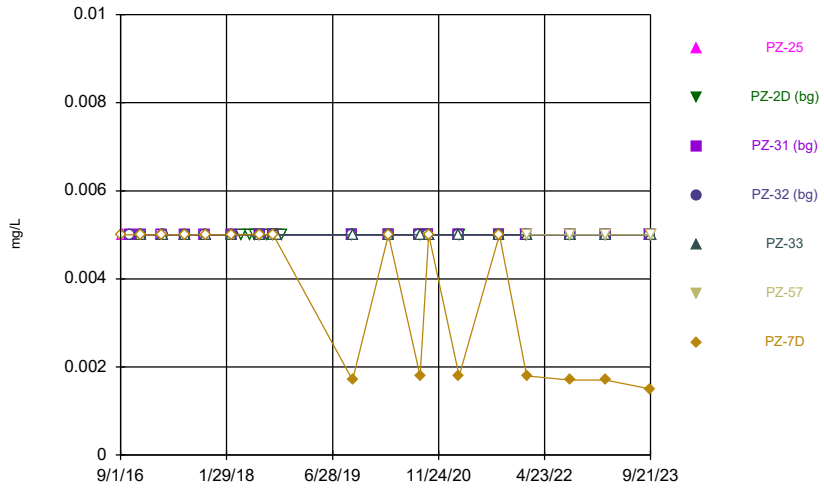
Time Series



Constituent: Selenium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

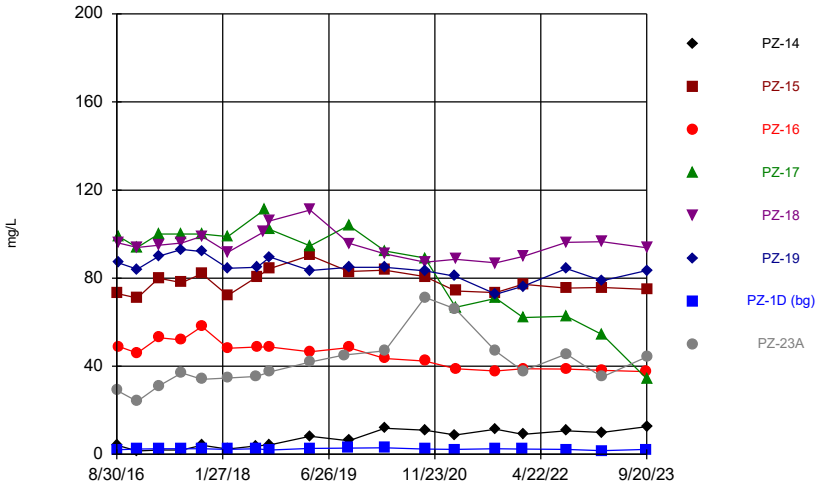
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

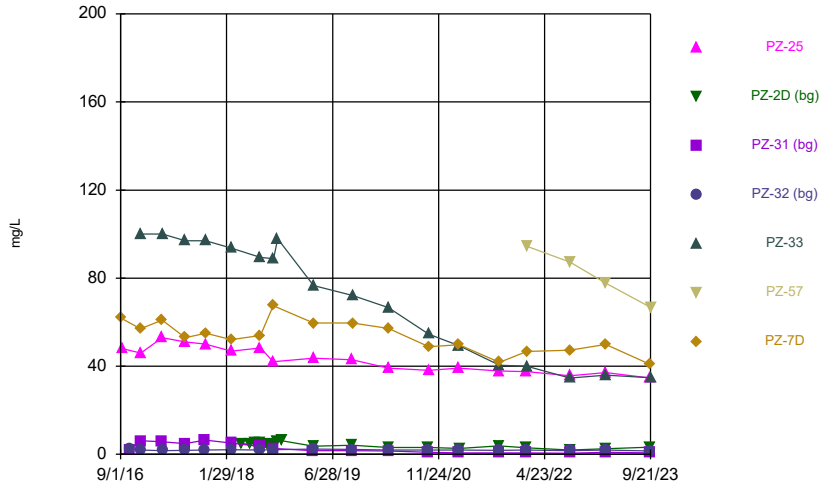
Time Series



Constituent: Sulfate Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

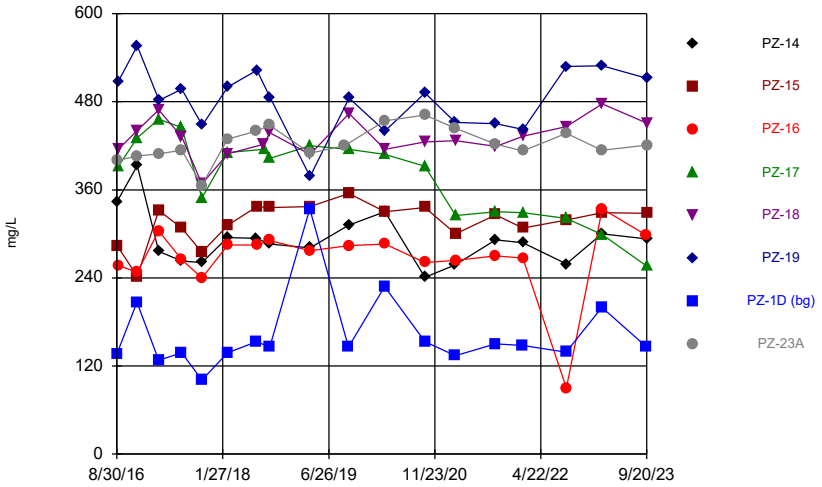
Time Series



Constituent: Sulfate Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

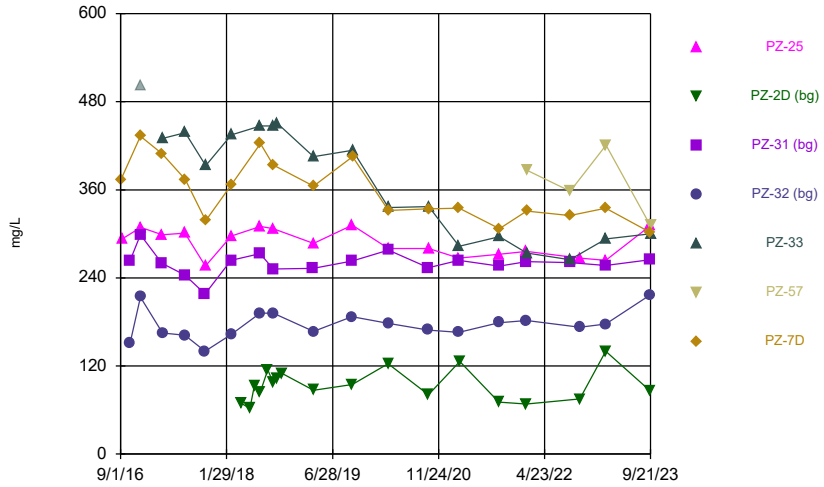
Time Series



Constituent: TDS Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

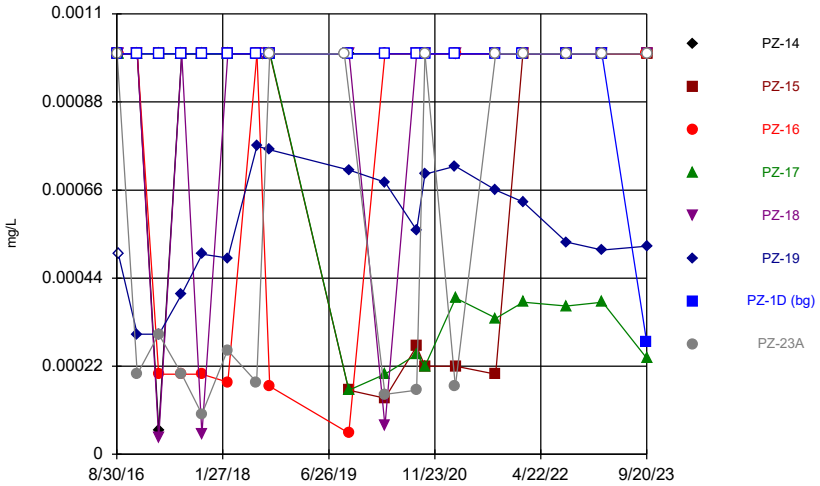
Time Series



Constituent: TDS Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

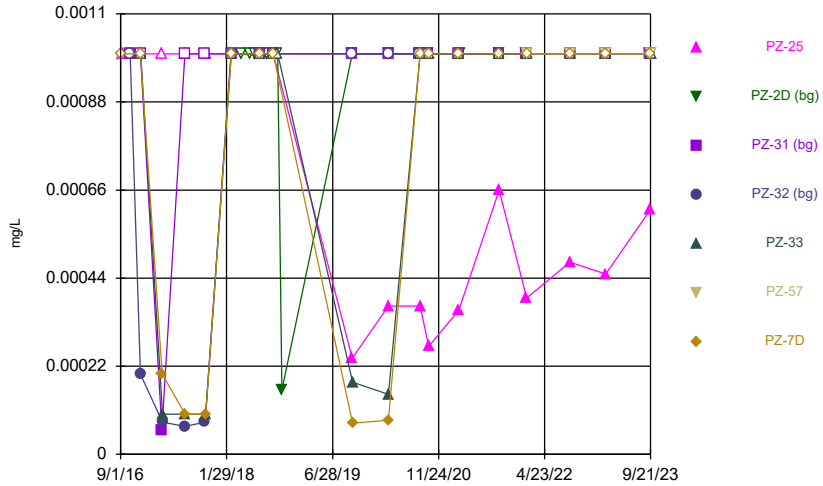
Time Series



Constituent: Thallium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/6/2023 11:50 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0009 (J)	
8/31/2016	<0.003							<0.003
9/1/2016		0.001 (J)						
9/6/2016			<0.003					
9/7/2016				<0.003	<0.003	<0.003		
12/6/2016							<0.003	
12/7/2016	<0.003	<0.003	<0.003					<0.003
12/8/2016				<0.003	<0.003	<0.003		
3/21/2017	0.0004 (J)						0.0028 (J)	<0.003
3/22/2017		<0.003	<0.003	<0.003	<0.003			
3/23/2017						<0.003		
7/11/2017	<0.003		<0.003				0.0035	<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003		
10/17/2017							0.0025 (J)	
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003
10/19/2017						<0.003		
2/20/2018	<0.003						0.00094 (J)	<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003		
7/11/2018	<0.003						0.0019 (J)	<0.003
7/12/2018		<0.003	<0.003			<0.003		
8/15/2018					<0.003			
8/16/2018				<0.003				
9/12/2018	<0.003						0.0019 (J)	
9/13/2018		<0.003	<0.003		<0.003			<0.003
9/14/2018				<0.003		<0.003		
9/10/2019								<0.003
10/1/2019							0.00076 (X)	
10/2/2019	<0.003	<0.003	<0.003	<0.003				
10/3/2019					<0.003	0.00044 (X)		
3/24/2020							0.00055 (J)	
3/25/2020	<0.003			0.00094 (J)				<0.003
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003		
8/25/2020							0.0012 (J)	
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003		0.00038 (J)
8/27/2020					<0.003			
10/6/2020	<0.003		<0.003				0.0021 (J)	<0.003
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003		
3/3/2021	<0.003					<0.003	0.00093 (J)	0.0017 (J)
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003			
9/14/2021							<0.003	
9/15/2021	<0.003	<0.003	<0.003					<0.003
9/16/2021				<0.003	<0.003	<0.003		
1/25/2022							<0.003	
1/26/2022	<0.003	<0.003	<0.003					<0.003
1/27/2022				<0.003	<0.003	<0.003		
8/24/2022							<0.003	
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
2/14/2023	<0.003						<0.003	<0.003
2/15/2023		<0.003	<0.003		<0.003	<0.003		
2/16/2023				<0.003				
9/19/2023			<0.003				<0.003	
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.003
9/8/2016	<0.003						
10/18/2016			0.0018 (J)	<0.003			
12/6/2016			<0.003				
12/7/2016				<0.003			<0.003
12/8/2016	<0.003				<0.003		
3/21/2017			<0.003				
3/22/2017	<0.003						<0.003
3/23/2017				<0.003	<0.003		
7/11/2017	<0.003		<0.003	<0.003			
7/12/2017					<0.003		<0.003
10/17/2017			<0.003	<0.003			
10/18/2017	<0.003						
10/19/2017					<0.003		<0.003
2/20/2018			<0.003	<0.003			
2/21/2018	<0.003				<0.003		<0.003
4/12/2018		<0.003					
5/23/2018		0.0017 (J)					
6/13/2018		0.0018 (J)					
7/11/2018		0.0024 (J)	<0.003	<0.003			
7/12/2018	<0.003				<0.003		<0.003
8/17/2018		0.00082 (J)					
9/12/2018		<0.003	<0.003				
9/13/2018	<0.003			<0.003			<0.003
9/14/2018					<0.003		
10/4/2018		<0.003			<0.003		
10/24/2018		0.00087 (J)					
10/1/2019				<0.003			
10/2/2019	<0.003	0.00042 (X)	<0.003				
10/3/2019					<0.003		0.00029 (X)
3/24/2020		0.00037 (J)					
3/25/2020	<0.003		<0.003	<0.003			
3/26/2020					<0.003		0.00042 (J)
8/25/2020			<0.003	<0.003			
8/26/2020	<0.003	0.0008 (J)			<0.003		0.00031 (J)
10/6/2020		0.0013 (J)	0.00045 (J)	<0.003			
10/7/2020	<0.003				0.00037 (J)		<0.003
3/3/2021	<0.003		<0.003	<0.003			
3/4/2021					<0.003		<0.003
3/8/2021		0.0003 (J)					
9/14/2021		0.0011 (J)		0.0012 (J)			
9/15/2021	<0.003		<0.003				
9/16/2021					<0.003		<0.003
1/25/2022		0.00098 (J)					
1/26/2022	<0.003		<0.003	<0.003			
1/27/2022					<0.003	<0.003	<0.003
8/24/2022	<0.003	0.0011 (J)	<0.003	0.001 (J)	0.00082 (J)		
8/25/2022							<0.003
8/26/2022						<0.003	
2/14/2023		0.0015 (J)	<0.003	<0.003			
2/15/2023	<0.003						<0.003
2/16/2023					<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.003	<0.003	0.0042	<0.003			
9/20/2023							<0.003
9/21/2023					<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.005
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0011 (J)	<0.005	0.0007 (J)	<0.005			
3/23/2017						0.0007 (J)		
7/11/2017	<0.005		<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)		<0.005	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		0.00089 (J)	<0.005	0.00072 (J)	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				0.0007 (J)				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								0.00036 (X)
10/1/2019							<0.005	
10/2/2019	0.00083 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				<0.005
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		<0.005
8/27/2020					<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0017 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				0.002 (J)			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0007 (J)		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00071 (J)				0.00094 (J)		<0.005
4/12/2018		0.00064 (J)					
5/23/2018		<0.005					
6/13/2018		0.0007 (J)					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		0.00062 (J)					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		0.00068 (J)					
10/1/2019				<0.005			
10/2/2019	0.00063 (X)	0.0022 (X)	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		<0.005
9/14/2021		0.0014 (J)		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		0.0014 (J)					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	<0.005
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						<0.005
2/16/2023					<0.005	<0.005	
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0335	
8/31/2016	0.0253							0.0407
9/1/2016		0.103						
9/6/2016			0.0794					
9/7/2016				0.0823	0.0717	0.067		
12/6/2016							0.0311	
12/7/2016	0.065	0.0781	0.0689					0.0581
12/8/2016				0.0668	0.0513	0.0522		
3/21/2017	0.0379						0.0305	0.0678
3/22/2017		0.0589	0.0423	0.0821	0.0273			
3/23/2017						0.0591		
7/11/2017	0.036		0.0467				0.0305	0.0574
7/12/2017		0.0613		0.0805	0.0269	0.0604		
10/17/2017							0.0255	
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258			0.0351
10/19/2017						0.0542		
2/20/2018	0.03						0.027	0.05
2/21/2018		0.076	0.046	0.073	0.029	0.058		
7/11/2018	0.027						0.032	0.051
7/12/2018		0.056	0.043			0.057		
8/15/2018					0.027			
8/16/2018				0.081				
9/12/2018	0.022						0.021	
9/13/2018		0.048	0.038		0.023			0.038
9/14/2018				0.081		0.058		
9/10/2019								0.029
10/1/2019							0.016	
10/2/2019	0.017	0.049	0.038	0.074				
10/3/2019					0.025	0.057		
3/24/2020							0.015	
3/25/2020	0.021			0.077				0.048
3/26/2020		0.048	0.034		0.023	0.052		
8/25/2020							0.014	
8/26/2020	0.016	0.053	0.036	0.077		0.049		0.039
8/27/2020					0.023			
10/6/2020	0.016		0.034				0.015	0.037
10/7/2020		0.049		0.074	0.023	0.054		
3/3/2021	0.017					0.055	0.015	0.039
3/4/2021		0.047	0.035	0.071	0.023			
9/14/2021							0.013	
9/15/2021	0.014	0.045	0.032					0.037
9/16/2021				0.064	0.022	0.053		
1/25/2022							0.014	
1/26/2022	0.016	0.055	0.034					0.039
1/27/2022				0.072	0.025	0.055		
8/24/2022							0.015	
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046		0.036
2/14/2023	0.014						0.02	0.033
2/15/2023		0.048	0.033		0.026	0.051		
2/16/2023				0.059				
9/19/2023			0.038				0.014	
9/20/2023	0.01	0.05		0.058	0.022	0.053		0.035

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0117
9/8/2016	0.102						
10/18/2016			0.0257	0.0248			
12/6/2016			0.113				
12/7/2016				0.0506			0.0133
12/8/2016	0.102				0.162 (o)		
3/21/2017			0.0226				
3/22/2017	0.0951						0.0114
3/23/2017				0.0175	0.0753		
7/11/2017	0.102		0.0139	0.0161			
7/12/2017					0.0756		0.0097 (J)
10/17/2017			0.0103	0.0158			
10/18/2017	0.0997						
10/19/2017					0.0681		0.0091 (J)
2/20/2018			0.015	0.015			
2/21/2018	0.11				0.085		0.0086 (J)
4/12/2018		<0.01					
5/23/2018		0.0042 (J)					
6/13/2018		0.012					
7/11/2018		0.0056 (J)	0.011	0.016			
7/12/2018	0.1				0.076		0.0093 (J)
8/17/2018		0.0069 (J)					
9/12/2018		0.011	0.0087 (J)				
9/13/2018	0.1			0.014			0.0078 (J)
9/14/2018					0.071		
10/4/2018		0.0066 (J)			0.072		
10/24/2018		0.0059 (J)					
10/1/2019				0.015			
10/2/2019	0.11	0.0046 (X)	0.0067 (X)				
10/3/2019					0.057		0.007 (X)
3/24/2020		0.0046 (J)					
3/25/2020	0.11		0.0082 (J)	0.015			
3/26/2020					0.057		0.0072 (J)
8/25/2020			0.0071 (J)	0.015			
8/26/2020	0.1	0.0051 (J)			0.051		0.007 (J)
10/6/2020		0.0039 (J)	0.0075 (J)	0.015			
10/7/2020	0.11				0.048		0.0061 (J)
3/3/2021	0.12		0.0069	0.013			
3/4/2021					0.047		0.0061
3/8/2021		0.0065					
9/14/2021		0.0041 (J)		0.014			
9/15/2021	0.11		0.0066				
9/16/2021					0.039		0.0062
1/25/2022		0.0037 (J)					
1/26/2022	0.11		0.0075	0.014			
1/27/2022					0.043	0.14	0.0068
8/24/2022	0.1	0.01	0.0063	0.019	0.038		
8/25/2022							0.0058
8/26/2022						0.064	
2/14/2023		0.0055	0.0071	0.014			
2/15/2023	0.1						0.006
2/16/2023					0.04	0.063	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.11	0.0027 (J)	0.0071	0.015			
9/20/2023							0.0059
9/21/2023					0.041	0.062	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							<0.0005
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					<0.0005
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						6.1E-05 (J)	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	<0.0005		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		6E-05 (J)					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0132 (J)	
8/31/2016	0.0285 (J)							0.166
9/1/2016		0.215						
9/6/2016			0.17					
9/7/2016				0.276	0.355	0.573		
12/6/2016							0.0096 (J)	
12/7/2016	0.0292 (J)	0.224	0.173					0.182
12/8/2016				0.303	0.351	0.588		
3/21/2017	0.0198 (J)						0.0082 (J)	0.172
3/22/2017		0.205	0.218	0.342	0.405			
3/23/2017						0.703		
7/11/2017	0.0137 (J)		0.18				0.0067 (J)	0.149
7/12/2017		0.184		0.278	0.35	0.598		
10/17/2017							0.0083 (J)	
10/18/2017	0.0212 (J)	0.197	0.195	0.277	0.37			0.158
10/19/2017						0.66		
2/20/2018	0.026 (J)						0.024 (J)	0.16
2/21/2018		0.21	0.21	0.29	0.33	0.6		
7/11/2018	0.026 (J)						0.017 (J)	0.17
7/12/2018		0.23	0.21			0.64		
8/15/2018					0.37			
8/16/2018				0.33				
9/12/2018	0.02 (J)						0.012 (J)	
9/13/2018		0.22	0.21		0.37			0.16
9/14/2018				0.31		0.57		
3/26/2019							0.0082	
3/27/2019	0.023		0.21		0.41			0.18
3/28/2019		0.22		0.34		0.7		
9/10/2019								0.15
10/1/2019							0.0064 (X)	
10/2/2019	0.021 (X)	0.17	0.19	0.28				
10/3/2019					0.35	0.52		
3/24/2020							0.013 (J)	
3/25/2020	0.027 (J)			0.33				0.19
3/26/2020		0.21	0.19		0.36	0.6		
10/6/2020	0.026 (J)		0.19				0.015 (J)	0.16
10/7/2020		0.19		0.3	0.39	0.52		
3/3/2021	0.028 (J)					0.5	0.01 (J)	0.16
3/4/2021		0.16	0.2	0.22	0.37			
9/14/2021							<0.04	
9/15/2021	0.022 (J)	0.16	0.16					0.15
9/16/2021				0.22	0.31	0.46		
1/25/2022							0.01 (J)	
1/26/2022	0.022 (J)	0.22	0.19					0.14
1/27/2022				0.21	0.4	0.55		
8/24/2022							0.011 (J)	
8/25/2022	0.032 (J)	0.21	0.24	0.19 (J)	0.39	0.58		0.17 (J)
2/14/2023	0.023 (J)						0.011 (J)	0.13
2/15/2023		0.21	0.19		0.35	0.54		
2/16/2023				0.15				
9/19/2023			0.19				0.024 (J)	
9/20/2023	0.027 (J)	0.18		0.1	0.41	0.62		0.15

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.379
9/8/2016	0.204						
10/5/2016					0.404		
10/10/2016					0.401		
10/18/2016			0.0174 (J)	0.0156 (J)			
12/6/2016			0.0133 (J)				
12/7/2016				0.0157 (J)			0.394
12/8/2016	0.216				0.375		
3/21/2017			0.0103 (J)				
3/22/2017	0.247						0.365
3/23/2017				0.0103 (J)	0.396		
7/11/2017	0.194		<0.04	<0.04			
7/12/2017					0.343		0.267
10/17/2017			0.0116 (J)	0.0142 (J)			
10/18/2017	0.186						
10/19/2017					0.413		0.326
2/20/2018			0.046 (J)	0.011 (J)			
2/21/2018	0.22				0.36		0.29
4/12/2018		0.016 (J)					
5/23/2018		0.018 (J)					
6/13/2018		0.014 (J)					
7/11/2018		0.017 (J)	0.014 (J)	0.014 (J)			
7/12/2018	0.22				0.41		0.32
8/17/2018		0.015 (J)					
9/12/2018		0.013 (J)	0.0098 (J)				
9/13/2018	0.2			0.013 (J)			0.31
9/14/2018					0.38		
10/4/2018		0.016 (J)			0.39		
10/24/2018		0.018 (J)					
3/26/2019			0.0076				
3/27/2019	0.22	0.016		0.012			
3/28/2019					0.39		0.33
10/1/2019				0.011 (X)			
10/2/2019	0.21	0.011 (X)	0.0084 (X)				
10/3/2019					0.36		0.24
3/24/2020		0.015 (J)					
3/25/2020	0.21		0.011 (J)	0.016 (J)			
3/26/2020					0.38		0.24
10/6/2020		0.018 (J)	0.011 (J)	0.015 (J)			
10/7/2020	0.18				0.35		0.2
3/3/2021	0.2		0.0087 (J)	0.022 (J)			
3/4/2021					0.34		0.2
3/8/2021		0.013 (J)					
9/14/2021		0.011 (J)		0.012 (J)			
9/15/2021	0.17		<0.04				
9/16/2021					0.31		0.18
1/25/2022		0.013 (J)					
1/26/2022	0.2		<0.04	0.01 (J)			
1/27/2022					0.36	0.19	0.23
8/24/2022	0.19	0.012 (J)	<0.04	0.022 (J)	0.32		
8/25/2022							0.2
8/26/2022						0.18	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.01 (J)	<0.04	0.012 (J)			
2/15/2023	0.17						0.21
2/16/2023					0.31	0.16	
9/19/2023	0.18	0.011 (J)	0.022 (J)	0.011 (J)			
9/20/2023							0.19
9/21/2023					0.45	0.2	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							0.0002 (J)
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					0.0002 (J)
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						<0.0005	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	0.0001 (J)		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		<0.0005					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							40.4	
8/31/2016	92.9							132
9/1/2016		74.8						
9/6/2016			74.6					
9/7/2016				100	112	138		
12/6/2016							43.3	
12/7/2016	93.1	74	68.9					125
12/8/2016				102	113	135		
3/21/2017	95						44.1	138
3/22/2017		99.3	77.8	113	122			
3/23/2017						137		
7/11/2017	97.1		77.3				47.4	139
7/12/2017		91.4		110	129	145		
10/17/2017							48.7	
10/18/2017	100	92	84.7	122	125			144
10/19/2017						140		
2/20/2018	93.1						46.8	142
2/21/2018		89	81.8	107	118	145		
7/11/2018	111						65.3 (o)	159
7/12/2018		94.5	85.2			140		
8/15/2018					123			
8/16/2018				113				
9/12/2018	99.3						46.6	
9/13/2018		90.8	80.2		123			136
9/14/2018				108		124		
3/26/2019							43.3	
3/27/2019	105		90.5		134			152
3/28/2019		100		123		164		
9/10/2019								137
10/1/2019							46.8	
10/2/2019	103	101	89.1	115				
10/3/2019					139	125		
3/24/2020							48	
3/25/2020	105			121				157
3/26/2020		103	89.8		138	158		
10/6/2020	111		84				50.5	144
10/7/2020		93.5		112	129	144		
3/3/2021	114					142	54.7	154
3/4/2021		107	90.9	113	138			
9/14/2021							51	
9/15/2021	106	94	91					147
9/16/2021				102	135	137		
1/25/2022							53.1	
1/26/2022	114	100	90.1					152
1/27/2022				104	142	133		
8/24/2022							45.8	
8/25/2022	108	96.7	92	99.5	141	156		145
2/14/2023	103						56.2	139
2/15/2023		98.1	88.5		164 (M1)	144		
2/16/2023				94.1				
9/19/2023			83.3				44.7	
9/20/2023	98.2	89.3		73.3	129	143		131

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							101
9/8/2016	85.2						
10/18/2016			88.3	57.2			
12/6/2016			83.4				
12/7/2016				52.8			103
12/8/2016	84.5				117		
3/21/2017			94				
3/22/2017	85.3						111
3/23/2017				59.1	122		
7/11/2017	93		86	59.7			
7/12/2017					124		119
10/17/2017			91.6	64.9			
10/18/2017	87.6						
10/19/2017					118		107
2/20/2018			86.5	64.1			
2/21/2018	93.9				122		118
4/12/2018		<25					
5/23/2018		17.6 (J)					
6/13/2018		14.3					
7/11/2018		15.6	95.4	60.4			
7/12/2018	87.1				129		121
8/17/2018		27					
9/12/2018		26.9	86				
9/13/2018	85.8			58.7			116
9/14/2018					123		
10/4/2018		25			126		
10/24/2018		23.8					
3/26/2019			87.3				
3/27/2019	95.2	26.1		54.6			
3/28/2019					117		124
10/1/2019				64.3			
10/2/2019	92.3	21	95.5				
10/3/2019					110		127
3/24/2020		26.5					
3/25/2020	97.5		95.8	66.6			
3/26/2020					122		122
10/6/2020		22.7	98.8	62.8			
10/7/2020	84.2				94.7		109
3/3/2021	96.8		104	64.8 (M1)			
3/4/2021					106		122
3/8/2021		41.7					
9/14/2021		13.4		67.8			
9/15/2021	84.4		101				
9/16/2021					92		109
1/25/2022		20.7					
1/26/2022	90.2		102	69.2			
1/27/2022					92.5	106	112
8/24/2022	87.6	27.3	95.2	67.1	96.5		
8/25/2022							107
8/26/2022						95.5	
2/14/2023		30.2	99.9	69.3			
2/15/2023	86.9						114

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					92.2 (M1)	91.6	
9/19/2023	80.3	13.7	86.9	64.6			
9/20/2023							94.3
9/21/2023					81.4	79.5	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							3.1	
8/31/2016	4.9							5.1
9/1/2016		7						
9/6/2016			7.9					
9/7/2016				7.7	6.9	6.8		
12/6/2016							3.4	
12/7/2016	4.8	7	7.6					5.2
12/8/2016				7.2	6.8	6.6		
3/21/2017	4.9						2.9	5.5
3/22/2017		7.4	7.7	7.3	6.8			
3/23/2017						6.6		
7/11/2017	5		8.1				3.4	5.7
7/12/2017		8		7.4	6.7	6.6		
10/17/2017							3.3	
10/18/2017	5.1	7.8	8.2	7.6	6.8			5.1
10/19/2017						6.5		
2/20/2018	5.1						3.3	5.5
2/21/2018		7.2	7.3	7.4	7.1	7.6		
7/11/2018	4.9						2.9	5.1
7/12/2018		7.5	7.2			6.3		
8/15/2018					6.7			
8/16/2018				7.5				
9/12/2018	4.8						2.8	
9/13/2018		6.8	7.3		6.7			5
9/14/2018				7.7		6.1		
3/26/2019							3.3	
3/27/2019	5.2		7.3		6.5			4.7
3/28/2019		7.4		7.3		6.4		
9/10/2019								3.8
10/1/2019							3.6	
10/2/2019	5.4	8	7.7	7.9				
10/3/2019					7	5.6		
3/24/2020							2.8	
3/25/2020	4.2			6.1				6.4
3/26/2020		7	7		5.7	5.4		
10/6/2020	4.4		6.4				3	7
10/7/2020		6.6		5.7	5	4.5		
3/3/2021	4.2					4	2.8	4.7
3/4/2021		6.3	5.9	4.2	5.1			
9/14/2021							2.9	
9/15/2021	3.9	5.8	5.6					2.8
9/16/2021				4.2	4.7	3.5		
1/25/2022							2.9	
1/26/2022	4.4	6.3	6.1					3.6
1/27/2022				3.8	4.9	3.7		
8/24/2022							2.6	
8/25/2022	4.6	6.4	6.3	3.9	4.6	4.6		3.2
2/14/2023	4.5						3	3.8
2/15/2023		6.2	6.2		4.5	4.1		
2/16/2023				3.1				
9/19/2023			5.9				2.9	
9/20/2023	4.3	6.2		2.1	4.2	4.1		2.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.4
9/8/2016	4						
10/18/2016			4.5	3.5			
12/6/2016			5				
12/7/2016				3.2			7.6
12/8/2016	3.6				6.9		
3/21/2017			4.3				
3/22/2017	3.3						7.2
3/23/2017				2.9	6.2		
7/11/2017	3		4.7	3.1			
7/12/2017					6		7.3
10/17/2017			4.6	3			
10/18/2017	2.9						
10/19/2017					6.4		7.4
2/20/2018			4.4	3			
2/21/2018	2.9				6.9		7.6
4/12/2018		2.6					
5/23/2018		2.5					
6/13/2018		2.5					
7/11/2018		2.6	4	2.8			
7/12/2018	2.6				7.3		7.1
8/17/2018		2.6					
9/12/2018		2.3	3.7				
9/13/2018	2.3			2.2			6.6
9/14/2018					7.3		
10/4/2018		2.7			7		
10/24/2018		2.8					
3/26/2019			3.8				
3/27/2019	2.4	2.5		3.1			
3/28/2019					4.8		6.4
10/1/2019				3.1			
10/2/2019	2.6	2.7	4.3				
10/3/2019					4.1		5.9
3/24/2020		2.2					
3/25/2020	1.6		3	2.2			
3/26/2020					2.9		4.8
10/6/2020		2.3	3.4	2.3			
10/7/2020	1.8				2		3.9
3/3/2021	1.6		3.1	2.2			
3/4/2021					1.8		4
3/8/2021		2.4					
9/14/2021		2.5		2.2			
9/15/2021	1.8		2.8				
9/16/2021					1.5		3.3
1/25/2022		2.4					
1/26/2022	1.7		3.2	2.4			
1/27/2022					1.8	3.2	3.8
8/24/2022	1.8	2.1	3	2.7	1.8		
8/25/2022							4.1
8/26/2022						2.4	
2/14/2023		2.6	3.3	2.7			
2/15/2023	1.8						4.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					2.3	2.2	
9/19/2023	1.6	2.3	3.4	2.6			
9/20/2023							3.4
9/21/2023					2.8	2	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0039 (J)	
8/31/2016	<0.01							<0.01
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							0.0047 (J)	
12/7/2016	<0.01	<0.005	<0.005					<0.01
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.01						0.0047 (J)	0.0009 (J)
3/22/2017		<0.005	0.0008 (J)	<0.005	<0.005			
3/23/2017						<0.005		
7/11/2017	<0.01		<0.005				0.0054 (J)	0.0016 (J)
7/12/2017		<0.005		<0.005	<0.005	<0.005		
10/17/2017							0.0053 (J)	
10/18/2017	<0.01	<0.005	<0.005	<0.005	<0.005			0.0019 (J)
10/19/2017						<0.005		
2/20/2018	<0.01						0.0029 (J)	<0.01
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.01						0.0057 (J)	0.0021 (J)
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.01						0.0033 (J)	
9/13/2018		<0.005	<0.005		<0.005			0.0022 (J)
9/14/2018				<0.005		<0.005		
9/10/2019								0.0044 (X)
10/1/2019							0.0022 (X)	
10/2/2019	<0.01	<0.005	0.00044 (X)	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							0.0036 (J)	
3/25/2020	0.0013 (J)			<0.005				0.0012 (J)
3/26/2020		<0.005	0.0013 (J)		0.00056 (J)	0.00073 (J)		
8/25/2020							0.003 (J)	
8/26/2020	0.0011 (J)	<0.005	0.00087 (J)	<0.005		<0.005		0.0014 (J)
8/27/2020					<0.005			
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)	0.0015 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	0.00097 (J)					<0.005	0.0018 (J)	0.0015 (J)
3/4/2021		<0.005	0.0012 (J)	<0.005	<0.005			
9/14/2021							0.002 (J)	
9/15/2021	0.0014 (J)	<0.005	0.0011 (J)					0.0019 (J)
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							0.0025 (J)	
1/26/2022	0.0012 (J)	<0.005	0.0013 (J)					0.0028 (J)
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							0.0025 (J)	
8/25/2022	0.0014 (J)	<0.005	0.0012 (J)	<0.005	<0.005	<0.005		0.0022 (J)
2/14/2023	0.0018 (J)						0.0015 (J)	0.0024 (J)
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				0.0015 (J)	
9/20/2023	0.002 (J)	<0.005		<0.005	<0.005	<0.005		0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.005						
10/18/2016			<0.01	<0.005			
12/6/2016			<0.01				
12/7/2016				<0.005			0.003 (J)
12/8/2016	<0.005				<0.005		
3/21/2017			0.0006 (J)				
3/22/2017	<0.005						0.0005 (J)
3/23/2017				0.0005 (J)	0.0017 (J)		
7/11/2017	<0.005		0.0006 (J)	<0.005			
7/12/2017					<0.005		<0.01
10/17/2017			0.0008 (J)	0.0005 (J)			
10/18/2017	<0.005						
10/19/2017					<0.005		0.0005 (J)
2/20/2018			<0.01	<0.005			
2/21/2018	<0.005				<0.005		<0.01
4/12/2018		0.01					
5/23/2018		0.011					
6/13/2018		0.011					
7/11/2018		0.0096 (J)	<0.01	<0.005			
7/12/2018	<0.005				<0.005		<0.01
8/17/2018		0.0078 (J)					
9/12/2018		0.0056 (J)	<0.01				
9/13/2018	<0.005			<0.005			<0.01
9/14/2018					<0.005		
10/4/2018		0.0057 (J)			<0.005		
10/24/2018		0.0058 (J)					
10/1/2019				<0.005			
10/2/2019	<0.005	0.0049 (X)	0.00043 (X)				
10/3/2019					<0.005		0.0004 (X)
3/24/2020		0.0047 (J)					
3/25/2020	<0.005		0.0013 (J)	0.00086 (J)			
3/26/2020					<0.005		0.0016 (J)
8/25/2020			0.0011 (J)	0.001 (J)			
8/26/2020	<0.005	0.004 (J)			<0.005		0.0011 (J)
10/6/2020		0.0065 (J)	0.0013 (J)	0.00072 (J)			
10/7/2020	<0.005				<0.005		0.0014 (J)
3/3/2021	<0.005		0.0015 (J)	<0.005			
3/4/2021					<0.005		0.0024 (J)
3/8/2021		0.0028 (J)					
9/14/2021		0.0084		<0.005			
9/15/2021	<0.005		0.0014 (J)				
9/16/2021					<0.005		0.0025 (J)
1/25/2022		0.0098					
1/26/2022	<0.005		0.0015 (J)	<0.005			
1/27/2022					<0.005	<0.005	0.0034 (J)
8/24/2022	<0.005	0.0066	0.0015 (J)	<0.005	<0.005		
8/25/2022							0.0024 (J)
8/26/2022						<0.005	
2/14/2023		0.0041 (J)	0.0011 (J)	<0.005			
2/15/2023	<0.005						0.0034 (J)
2/16/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	0.0071	0.0012 (J)	<0.005			
9/20/2023							0.0022 (J)
9/21/2023					<0.005	0.0013 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		0.0012 (J)						
9/6/2016			0.0005 (J)					
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)		
12/6/2016							<0.005	
12/7/2016	0.002 (J)	0.0005 (J)	<0.005					0.0008 (J)
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005			
3/23/2017						<0.005		
7/11/2017	0.0003 (J)		<0.005				<0.005	<0.005
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								<0.005
10/1/2019							<0.005	
10/2/2019	<0.005	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			0.00032 (J)				0.0003 (J)
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		0.00058 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.00067 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	<0.005					<0.005	<0.005	0.00049 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0008 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			0.0018 (J)				
12/7/2016				0.0015 (J)			<0.005
12/8/2016	<0.01				0.0041 (J)		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0008 (J)		
7/11/2017	0.001 (J)		<0.005	<0.005			
7/12/2017					0.0007 (J)		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	0.0011 (J)						
10/19/2017					0.0005 (J)		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00075 (J)				0.0012 (J)		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	0.0008 (J)				0.00053 (J)		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	0.001 (J)			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	0.0017 (X)	<0.005	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	0.0018 (J)		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	0.0016 (J)	<0.005			<0.005		<0.005
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	0.0014 (J)				<0.005		<0.005
3/3/2021	0.0016 (J)		<0.005	<0.005			
3/4/2021					<0.005		<0.005
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	0.002 (J)		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	0.0016 (J)		<0.005	<0.005			
1/27/2022					<0.005	0.0043 (J)	<0.005
8/24/2022	0.0016 (J)	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						0.0012 (J)	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	0.0012 (J)						<0.005
2/16/2023					<0.005	0.00051 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0017 (J)	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.503 (U)	
8/31/2016	1.77							1.85
9/1/2016		1.19						
9/6/2016			1.12					
9/7/2016				1.06 (U)	1.51	1.22		
12/6/2016							0.302 (U)	
12/7/2016	0.672 (U)	1.88	1.37					0.844 (U)
12/8/2016				1.3	1.29	1.69		
3/21/2017	0.33 (U)						0.526 (U)	0.832 (U)
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)			
3/23/2017						1.07		
7/11/2017	0.701 (U)		0.76 (U)				0.676 (U)	0.824 (U)
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)		
10/17/2017							0.201 (U)	
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)			1.19
10/19/2017						0.398 (U)		
2/20/2018	2.12						1.07 (U)	0.975 (U)
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)		
7/11/2018	0.232 (U)						0.825 (U)	1.29
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)		
9/12/2018	0.532 (U)						0.317 (U)	
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)			0.765 (U)
9/14/2018				1.16		0.74 (U)		
9/10/2019								0.575 (U)
10/1/2019							0.953 (U)	
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)				
10/3/2019					2.07	1.9		
3/24/2020							2.23	
3/25/2020	0.694 (U)			0.385 (U)				1.39
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66		
8/25/2020							0.777 (U)	
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)		0.774 (U)
10/6/2020	0.265 (U)		1.12 (U)				0.996 (U)	1.24 (U)
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893		
3/3/2021	0.328 (U)					0.469 (U)	0.915 (U)	1.01 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)			
9/14/2021							0.532 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)					0.742 (U)
9/16/2021				0.377 (U)	0.681 (U)	1.4		
1/25/2022							0.32 (U)	
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)					0.76 (U)
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)		
8/24/2022							0.196 (U)	
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937		0.396 (U)
2/14/2023	0.0857 (U)						0.319 (U)	0.521 (U)
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)		
2/16/2023				0.129 (U)				
9/19/2023			0.531 (U)				0.55 (U)	
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)		0.235 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.88 (U)
9/8/2016	1.41						
10/18/2016			0.0311 (U)	0.0333 (U)			
12/6/2016			0.301 (U)				
12/7/2016				0.507 (U)			0.179 (U)
12/8/2016	1.39				0.968 (U)		
3/21/2017			0.506 (U)				
3/22/2017	0.852 (U)						0.279 (U)
3/23/2017				0.378 (U)	0.444 (U)		
7/11/2017	1.04		0.0701 (U)	1.04			
7/12/2017					0.814 (U)		0.125 (U)
10/17/2017			0.412 (U)	0.779 (U)			
10/18/2017	0.678 (U)						
10/19/2017					0.748 (U)		0.329 (U)
2/20/2018			0.81 (U)	0.906 (U)			
2/21/2018	0.863 (U)				1.05 (U)		0.504 (U)
4/12/2018		0.774 (U)					
5/23/2018		0.301 (U)					
6/13/2018		0.508 (U)					
7/11/2018		1.66	0.749 (U)	0.505 (U)			
7/12/2018	1.42				0.751 (U)		0.188 (U)
9/12/2018		0.217 (U)	0.2 (U)				
9/13/2018	0.766 (U)			0.313 (U)			0.0542 (U)
9/14/2018					1.01 (U)		
10/4/2018		1.14			1.05		
10/24/2018		0.441 (U)					
10/1/2019				1.01 (U)			
10/2/2019	1.48	0.712 (U)	0.0883 (U)				
10/3/2019					1.62 (U)		1.37
3/24/2020		0.898 (U)					
3/25/2020	0.91 (U)		1.79	0.333 (U)			
3/26/2020					0.473 (U)		0.43 (U)
8/25/2020			0.405 (U)	0.34 (U)			
8/26/2020	0.95 (U)				0.782 (U)		0.572 (U)
10/6/2020		0.929 (U)	0.276 (U)	0.371 (U)			
10/7/2020	1.01 (U)				0.442 (U)		0.232 (U)
3/3/2021	0.545 (U)		0.907 (U)	0.836 (U)			
3/4/2021					1.03 (U)		0.529 (U)
3/8/2021		0.475 (U)					
9/14/2021		0.972 (U)		0.68 (U)			
9/15/2021	1.07 (U)		0.0517 (U)				
9/16/2021					0.184 (U)		0.382 (U)
1/25/2022		0.146 (U)					
1/26/2022	0.282 (U)		0.0386 (U)	0.449 (U)			
1/27/2022					0.259 (U)	1.13	0.315 (U)
8/24/2022	0.764 (U)	0.0268 (U)	0.781 (U)	0.342 (U)	0.764 (U)		
8/25/2022							0.771 (U)
8/26/2022						0.488 (U)	
2/14/2023		0.486 (U)	0.102 (U)	0.151 (U)			
2/15/2023	0.484 (U)						0.496 (U)
2/16/2023					0.765	0.193 (U)	
9/19/2023	1.21 (U)	0.769 (U)	1.07 (U)	0.804 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/20/2023							0.623 (U)
9/21/2023					0.809 (U)	0.401 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.06 (J)	
8/31/2016	0.13 (J)							0.13 (J)
9/1/2016		0.06 (J)						
9/6/2016			0.09 (J)					
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)		
12/6/2016							0.06 (J)	
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)					0.13 (J)
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)		
3/21/2017	<0.1						0.004 (J)	0.05 (J)
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)			
3/23/2017						0.14 (J)		
7/11/2017	0.05 (J)		0.05 (J)				0.05 (J)	0.05 (J)
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)		
10/17/2017							<0.1	
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)			<0.1
10/19/2017						<0.3		
2/20/2018	0.04 (J)						0.098 (J)	0.3 (J)
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37		
7/11/2018	<0.1						<0.1	0.077 (J)
7/12/2018		<0.1	<0.1			0.17 (J)		
8/15/2018					<0.1			
8/16/2018				0.073 (J)				
9/12/2018	<0.1						0.034 (J)	
9/13/2018		0.15 (J)	<0.1		<0.1			<0.1
9/14/2018				<0.1		<0.3		
3/26/2019							<0.1	
3/27/2019	<0.1		<0.1		<0.1			<0.1
3/28/2019		0.1		0.15		0.074		
9/10/2019								<0.1
10/1/2019							0.062 (X)	
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)				
10/3/2019					0.043 (X)	0.084 (X)		
3/24/2020							<0.1	
3/25/2020	<0.1			<0.1				0.066 (J)
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)		
8/25/2020							<0.1	
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)		0.057 (J)
8/27/2020					<0.1			
10/6/2020	<0.1		<0.1				<0.1	0.052 (J)
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)		
3/3/2021	<0.1					0.058 (J)	<0.1	<0.1
3/4/2021		<0.1	<0.1	<0.1	<0.1			
9/14/2021							<0.1	
9/15/2021	<0.1	<0.1	<0.1					<0.1
9/16/2021				0.052 (J)	<0.1	0.067 (J)		
1/25/2022							<0.1	
1/26/2022	<0.1	<0.1	<0.1					<0.1
1/27/2022				<0.1	<0.1	0.056 (J)		
8/24/2022							0.08 (J)	
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)		0.074 (J)
2/14/2023	<0.1						0.063 (J)	0.084 (J)
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				0.077 (J)				
9/19/2023			<0.1				0.06 (J)	
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)		0.062 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.1
9/8/2016	0.25 (J)						
10/18/2016			0.16 (J)	0.11 (J)			
12/6/2016			0.15 (J)				
12/7/2016				0.07 (J)			0.15 (J)
12/8/2016	0.22 (J)				0.21 (J)		
3/21/2017			0.02 (J)				
3/22/2017	0.16 (J)						0.09 (J)
3/23/2017				<0.1	0.18 (J)		
7/11/2017	0.23 (J)		0.06 (J)	0.02 (J)			
7/12/2017					0.06 (J)		0.02 (J)
10/17/2017			0.05 (J)	<0.1			
10/18/2017	0.28 (J)						
10/19/2017					<0.1		<0.1
2/20/2018			0.21 (J)	<0.1			
2/21/2018	0.29 (J)				0.039 (J)		0.045 (J)
4/12/2018		<0.1					
5/23/2018		0.063 (J)					
6/13/2018		0.11 (J)					
7/11/2018		<0.1	0.087 (J)	<0.1			
7/12/2018	0.21 (J)				<0.1		<0.1
8/17/2018		<0.1					
9/12/2018		0.093 (J)	0.049 (J)				
9/13/2018	0.22 (J)			<0.1			<0.1
9/14/2018					<0.1		
10/4/2018		0.15 (J)			0.15 (J)		
10/24/2018		0.29 (J)					
3/26/2019			<0.1				
3/27/2019	0.37	0.04		<0.1			
3/28/2019					<0.1		<0.1
10/1/2019				0.042 (X)			
10/2/2019	0.16 (X)	0.11 (X)	0.057 (X)				
10/3/2019					0.06 (X)		0.041 (X)
3/24/2020		0.051 (J)					
3/25/2020	0.13 (J)		<0.1	<0.1			
3/26/2020					<0.1		<0.1
8/25/2020			<0.1	<0.1			
8/26/2020	0.14	0.057 (J)			<0.1		<0.1
10/6/2020		0.073 (J)	<0.1	<0.1			
10/7/2020	0.13				<0.1		<0.1
3/3/2021	0.12		<0.1	<0.1			
3/4/2021					<0.1		<0.1
3/8/2021		<0.1					
9/14/2021		0.089 (J)		<0.1			
9/15/2021	0.14		<0.1				
9/16/2021					<0.1		<0.1
1/25/2022		0.071 (J)					
1/26/2022	0.11		<0.1	<0.1			
1/27/2022					<0.1	0.057 (J)	<0.1
8/24/2022	0.15	0.088 (J)	0.069 (J)	0.058 (J)	0.092 (J)		
8/25/2022							0.056 (J)
8/26/2022						0.083 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.076 (J)	0.059 (J)	<0.1			
2/15/2023	0.16						0.05 (J)
2/16/2023					0.082 (J)	0.077 (J)	
9/19/2023	0.14	0.094 (J)	0.053 (J)	<0.1			
9/20/2023							<0.1
9/21/2023					0.074 (J)	0.074 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					<0.001
12/8/2016				<0.001	<0.001	<0.001		
3/21/2017	<0.001						<0.001	<0.001
3/22/2017		5E-05 (J)	<0.001	<0.001	<0.001			
3/23/2017						<0.001		
7/11/2017	<0.001		<0.001				<0.001	<0.001
7/12/2017		<0.001		<0.001	<0.001	<0.001		
10/17/2017							0.0001 (J)	
10/18/2017	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
10/19/2017						<0.001		
2/20/2018	<0.001						<0.001	<0.001
2/21/2018		<0.001	<0.001	<0.001	0.00043 (J)	<0.001		
7/11/2018	<0.001						<0.001	<0.001
7/12/2018		<0.001	<0.001			<0.001		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	<0.001		<0.001			<0.001
9/14/2018				<0.001		<0.001		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	<0.001	8.1E-05 (X)	<0.001				
10/3/2019					<0.001	<0.001		
3/24/2020							6.2E-05 (J)	
3/25/2020	<0.001			<0.001				0.00015 (J)
3/26/2020		<0.001	<0.001		<0.001	<0.001		
8/25/2020							6.5E-05 (J)	
8/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				6.6E-05 (J)	4.7E-05 (J)
10/7/2020		<0.001		<0.001	4.2E-05 (J)	4.2E-05 (J)		
3/3/2021	<0.001					<0.001	5.5E-05 (J)	5.8E-05 (J)
3/4/2021		<0.001	<0.001	<0.001	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	<0.001	<0.001					<0.001
9/16/2021				<0.001	<0.001	<0.001		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				<0.001	<0.001	<0.001		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	<0.001		
2/16/2023				<0.001				
9/19/2023			<0.001				<0.001	
9/20/2023	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	0.0001 (J)			
12/6/2016			<0.001				
12/7/2016				<0.001			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			<0.001				
3/22/2017	<0.001						<0.001
3/23/2017				0.0002 (J)	9E-05 (J)		
7/11/2017	<0.001		<0.001	<0.001			
7/12/2017					<0.001		<0.001
10/17/2017			0.0005 (J)	7E-05 (J)			
10/18/2017	<0.001						
10/19/2017					<0.001		<0.001
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		<0.001					
10/1/2019				<0.001			
10/2/2019	<0.001	4.7E-05 (X)	8.1E-05 (X)				
10/3/2019					4.7E-05 (X)		<0.001
3/24/2020		<0.001					
3/25/2020	<0.001		<0.001	<0.001			
3/26/2020					<0.001		<0.001
8/25/2020			<0.001	6.3E-05 (J)			
8/26/2020	<0.001	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	<0.001				<0.001		<0.001
3/3/2021	<0.001		<0.001	<0.001			
3/4/2021					<0.001		4.1E-05 (J)
3/8/2021		6.2E-05 (J)					
9/14/2021		<0.001		<0.001			
9/15/2021	<0.001		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	<0.001		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	<0.001						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.001	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.03	
8/31/2016	<0.03							<0.03
9/1/2016		<0.05						
9/6/2016			<0.03					
9/7/2016				<0.05	<0.05	0.0082 (J)		
12/6/2016							<0.03	
12/7/2016	0.003 (J)	<0.05	<0.03					<0.03
12/8/2016				<0.05	<0.05	0.0061 (J)		
3/21/2017	<0.03						<0.03	<0.03
3/22/2017		0.0011 (J)	<0.03	0.0021 (J)	0.0029 (J)			
3/23/2017						0.0122 (J)		
7/11/2017	<0.03		<0.03				<0.03	<0.03
7/12/2017		<0.05		0.002 (J)	0.0024 (J)	0.013 (J)		
10/17/2017							<0.03	
10/18/2017	<0.03	<0.05	<0.03	0.002 (J)	0.0027 (J)			<0.03
10/19/2017						0.013 (J)		
2/20/2018	<0.03						<0.03	<0.03
2/21/2018		<0.05	<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)		
7/11/2018	<0.03						<0.03	<0.03
7/12/2018		0.0012 (J)	<0.03			0.013 (J)		
8/15/2018					0.0027 (J)			
8/16/2018				0.0027 (J)				
9/12/2018	<0.03						<0.03	
9/13/2018		0.0013 (J)	<0.03		0.0029 (J)			<0.03
9/14/2018				0.0025 (J)		0.018 (J)		
9/10/2019								<0.03
10/1/2019							<0.03	
10/2/2019	<0.03	0.0013 (X)	<0.03	0.0024 (X)				
10/3/2019					0.0027 (X)	0.016 (X)		
3/24/2020							<0.03	
3/25/2020	<0.03			0.003 (J)				0.0011 (J)
3/26/2020		0.0014 (J)	<0.03		0.0027 (J)	0.013 (J)		
8/25/2020							<0.03	
8/26/2020	<0.03	0.0013 (J)	<0.03	0.0028 (J)		0.011 (J)		0.0011 (J)
8/27/2020					0.0025 (J)			
10/6/2020	<0.03		<0.03				<0.03	0.00097 (J)
10/7/2020		0.0013 (J)		0.0029 (J)	0.003 (J)	0.013 (J)		
3/3/2021	<0.03					0.015 (J)	<0.03	0.001 (J)
3/4/2021		0.0014 (J)	<0.03	0.002 (J)	0.0029 (J)			
9/14/2021							<0.03	
9/15/2021	<0.03	0.0013 (J)	<0.03					0.00085 (J)
9/16/2021				0.0021 (J)	0.0023 (J)	0.013 (J)		
1/25/2022							<0.03	
1/26/2022	<0.03	0.0013 (J)	<0.03					<0.03
1/27/2022				0.0022 (J)	0.003 (J)	0.016 (J)		
8/24/2022							<0.03	
8/25/2022	<0.03	0.0012 (J)	<0.03	0.0018 (J)	0.0033 (J)	0.012 (J)		<0.03
2/14/2023	<0.03						<0.03	<0.03
2/15/2023		0.001 (J)	<0.03		0.0027 (J)	0.011 (J)		
2/16/2023				0.0014 (J)				
9/19/2023			<0.03				<0.03	
9/20/2023	<0.03	0.0014 (J)		0.0012 (J)	0.0028 (J)	0.014 (J)		0.00088 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0022 (J)
9/8/2016	0.0038 (J)						
10/18/2016			<0.03	<0.03			
12/6/2016			<0.03				
12/7/2016				<0.03			0.0023 (J)
12/8/2016	0.0038 (J)				<0.03		
3/21/2017			<0.03				
3/22/2017	0.0068 (J)						0.0025 (J)
3/23/2017				<0.03	<0.03		
7/11/2017	0.0059 (J)		<0.03	<0.03			
7/12/2017					<0.03		0.0033 (J)
10/17/2017			<0.03	<0.03			
10/18/2017	0.0057 (J)						
10/19/2017					<0.03		<0.25
2/20/2018			<0.03	<0.03			
2/21/2018	0.0063 (J)				<0.03		0.0034 (J)
4/12/2018		<0.03					
5/23/2018		<0.03					
6/13/2018		<0.03					
7/11/2018		0.0011 (J)	<0.03	<0.03			
7/12/2018	0.0063 (J)				<0.03		0.0038 (J)
8/17/2018		0.0024 (J)					
9/12/2018		0.0025 (J)	<0.03				
9/13/2018	0.0061 (J)			<0.03			0.0026 (J)
9/14/2018					<0.03		
10/4/2018		0.0021 (J)			<0.03		
10/24/2018		0.0021 (J)					
10/1/2019				<0.03			
10/2/2019	0.0074 (X)	0.0016 (X)	<0.03				
10/3/2019					<0.03		0.0032 (X)
3/24/2020		0.0019 (J)					
3/25/2020	0.0066 (J)		<0.03	<0.03			
3/26/2020					<0.03		0.0031 (J)
8/25/2020			<0.03	<0.03			
8/26/2020	0.0065 (J)	0.0015 (J)			<0.03		0.0023 (J)
10/6/2020		0.00099 (J)	<0.03	<0.03			
10/7/2020	0.0063 (J)				<0.03		0.0023 (J)
3/3/2021	0.0061 (J)		<0.03	<0.03			
3/4/2021					<0.03		0.0031 (J)
3/8/2021		0.0019 (J)					
9/14/2021		0.0013 (J)		<0.03			
9/15/2021	0.0061 (J)		<0.03				
9/16/2021					<0.03		0.0025 (J)
1/25/2022		0.0012 (J)					
1/26/2022	0.008 (J)		<0.03	<0.03			
1/27/2022					<0.03	0.002 (J)	0.0039 (J)
8/24/2022	0.0073 (J)	0.0012 (J)	<0.03	<0.03	<0.03		
8/25/2022							0.003 (J)
8/26/2022						0.0013 (J)	
2/14/2023		0.001 (J)	<0.03	<0.03			
2/15/2023	0.0057 (J)						0.0037 (J)
2/16/2023					<0.03	0.00082 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0064 (J)	<0.03	0.00079 (J)	<0.03			
9/20/2023							0.0023 (J)
9/21/2023					<0.03	0.00089 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0002	
8/31/2016	<0.0002							<0.0002
9/1/2016		<0.0002						
9/6/2016			<0.0002					
9/7/2016				<0.0002	<0.0002	<0.0002		
12/6/2016							<0.0002	
12/7/2016	7E-05 (J)	<0.0002	<0.0002					9E-05 (J)
12/8/2016				<0.0002	<0.0002	<0.0002		
3/21/2017	<0.0002						<0.0002	<0.0002
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002			
3/23/2017						<0.0002		
7/11/2017	<0.0002		<0.0002				<0.0002	<0.0002
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002		
10/17/2017							<0.0002	
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
10/19/2017						<0.0002		
2/20/2018	<0.0002						<0.0002	<0.0002
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)		
7/11/2018	<0.0002						<0.0002	<0.0002
7/12/2018		<0.0002	<0.0002			<0.0002		
8/15/2018					<0.0002			
8/16/2018				<0.0002				
9/12/2018	<0.0002						<0.0002	
9/13/2018		<0.0002	<0.0002		<0.0002			<0.0002
9/14/2018				<0.0002		<0.0002		
8/25/2020							9.9E-05 (J)	
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)		0.00017 (J)
8/27/2020					<0.0002			
10/6/2020	<0.0002		<0.0002				<0.0002	<0.0002
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002		
3/3/2021	<0.0002					<0.0002	<0.0002	<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002			
9/14/2021							<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002					<0.0002
9/16/2021				<0.0002	<0.0002	<0.0002		
1/25/2022							<0.0002	
1/26/2022	<0.0002	<0.0002	<0.0002					<0.0002
1/27/2022				<0.0002	<0.0002	<0.0002		
8/24/2022							<0.0002	
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/14/2023	<0.0002						<0.0002	<0.0002
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002		
2/16/2023				<0.0002				
9/19/2023			<0.0002				<0.0002	
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0002
9/8/2016	<0.0002						
10/18/2016			<0.0002	<0.0002			
12/6/2016			<0.0002				
12/7/2016				<0.0002			6E-05 (J)
12/8/2016	<0.0002				<0.0002		
3/21/2017			<0.0002				
3/22/2017	<0.0002						<0.0002
3/23/2017				<0.0002	<0.0002		
7/11/2017	<0.0002		<0.0002	<0.0002			
7/12/2017					<0.0002		<0.0002
10/17/2017			<0.0002	<0.0002			
10/18/2017	<0.0002						
10/19/2017					<0.0002		<0.0002
2/20/2018			<0.0002	<0.0002			
2/21/2018	5.3E-05 (J)				4.3E-05 (J)		5.3E-05 (J)
4/12/2018		<0.0002					
5/23/2018		<0.0002					
6/13/2018		4.9E-05 (J)					
7/11/2018		<0.0002	<0.0002	<0.0002			
7/12/2018	<0.0002				<0.0002		<0.0002
8/17/2018		<0.0002					
9/12/2018		<0.0002	<0.0002				
9/13/2018	<0.0002			<0.0002			<0.0002
9/14/2018					4.1E-05 (J)		
10/4/2018		<0.0002			<0.0002		
10/24/2018		5.2E-05 (J)					
8/25/2020			0.0001 (J)	<0.0002			
8/26/2020	<0.0002	<0.0002			0.00011 (J)		<0.0002
10/6/2020		<0.0002	<0.0002	<0.0002			
10/7/2020	<0.0002				<0.0002		<0.0002
3/3/2021	<0.0002		<0.0002	<0.0002			
3/4/2021					<0.0002		<0.0002
3/8/2021		<0.0002					
9/14/2021		<0.0002		<0.0002			
9/15/2021	<0.0002		<0.0002				
9/16/2021					<0.0002		<0.0002
1/25/2022		<0.0002					
1/26/2022	<0.0002		<0.0002	<0.0002			
1/27/2022					<0.0002	<0.0002	<0.0002
8/24/2022		0.00013 (J)	<0.0002	0.00014 (J)	<0.0002		
8/25/2022							<0.0002
8/26/2022						<0.0002	
10/11/2022	<0.0002						
2/14/2023		<0.0002	<0.0002	<0.0002			
2/15/2023	<0.0002						<0.0002
2/16/2023					<0.0002	<0.0002	
9/19/2023	<0.0002	<0.0002	<0.0002	<0.0002			
9/20/2023							<0.0002
9/21/2023					<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.01	
8/31/2016	<0.01							<0.01
9/1/2016		<0.01						
9/6/2016			<0.01					
9/7/2016				<0.01	<0.01	0.0027 (J)		
12/6/2016							0.0019 (J)	
12/7/2016	<0.01	<0.01	<0.01					<0.01
12/8/2016				<0.01	<0.01	0.0022 (J)		
3/21/2017	0.0005 (J)						0.0018 (J)	0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)	<0.01			
3/23/2017						0.0025 (J)		
7/11/2017	<0.01		<0.01				0.0018 (J)	<0.01
7/12/2017		<0.01		<0.01	<0.01	0.0022 (J)		
10/17/2017							0.0016 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01
10/19/2017						0.0021 (J)		
2/20/2018	<0.01						<0.01	<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01		
7/11/2018	<0.01						<0.01	<0.01
7/12/2018		<0.01	<0.01			0.0022 (J)		
8/15/2018					<0.01			
8/16/2018				<0.01				
9/12/2018	<0.01						<0.01	
9/13/2018		<0.01	<0.01		<0.01			<0.01
9/14/2018				<0.01		0.0023 (J)		
9/10/2019								<0.01
10/1/2019							0.001 (X)	
10/2/2019	<0.01	<0.01	<0.01	<0.01				
10/3/2019					<0.01	0.0024 (X)		
3/24/2020							0.001 (J)	
3/25/2020	<0.01			<0.01				0.0011 (J)
3/26/2020		<0.01	<0.01		<0.01	0.0021 (J)		
8/25/2020							0.001 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01		0.002 (J)		<0.01
8/27/2020					<0.01			
10/6/2020	<0.01		<0.01				0.0009 (J)	<0.01
10/7/2020		<0.01		<0.01	<0.01	0.0019 (J)		
3/3/2021	<0.01					0.0021 (J)	0.00076 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01	<0.01			
9/14/2021							0.00086 (J)	
9/15/2021	<0.01	<0.01	<0.01					<0.01
9/16/2021				<0.01	<0.01	0.0021 (J)		
1/25/2022							<0.01	
1/26/2022	<0.01	<0.01	<0.01					<0.01
1/27/2022				<0.01	<0.01	0.0022 (J)		
8/24/2022							0.00088 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	<0.01	0.0017 (J)		<0.01
2/14/2023	<0.01						0.0013 (J)	<0.01
2/15/2023		<0.01	<0.01		<0.01	0.0016 (J)		
2/16/2023				<0.01				
9/19/2023			<0.01				0.0013 (J)	
9/20/2023	<0.01	<0.01		<0.01	<0.01	0.0019 (J)		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.01						
10/18/2016			<0.01	<0.01			
12/6/2016			<0.01				
12/7/2016				<0.01			<0.01
12/8/2016	<0.01				<0.01		
3/21/2017			0.0005 (J)				
3/22/2017	0.001 (J)						<0.01
3/23/2017				<0.01	<0.01		
7/11/2017	<0.01		<0.01	<0.01			
7/12/2017					<0.01		<0.01
10/17/2017			<0.01	<0.01			
10/18/2017	<0.01						
10/19/2017					<0.01		<0.01
2/20/2018			<0.01	<0.01			
2/21/2018	<0.01				<0.01		<0.01
4/12/2018		<0.01					
5/23/2018		<0.01					
6/13/2018		<0.01					
7/11/2018		<0.01	<0.01	<0.01			
7/12/2018	<0.01				<0.01		<0.01
8/17/2018		<0.01					
9/12/2018		<0.01	<0.01				
9/13/2018	<0.01			<0.01			<0.01
9/14/2018					<0.01		
10/4/2018		<0.01			<0.01		
10/24/2018		<0.01					
10/1/2019				<0.01			
10/2/2019	<0.01	<0.01	<0.01				
10/3/2019					<0.01		<0.01
3/24/2020		<0.01					
3/25/2020	<0.01		<0.01	<0.01			
3/26/2020					<0.01		<0.01
8/25/2020			<0.01	<0.01			
8/26/2020	<0.01	<0.01			<0.01		<0.01
10/6/2020		0.00069 (J)	<0.01	<0.01			
10/7/2020	<0.01				<0.01		<0.01
3/3/2021	<0.01		<0.01	<0.01			
3/4/2021					<0.01		<0.01
3/8/2021		<0.01					
9/14/2021		0.00077 (J)		<0.01			
9/15/2021	<0.01		<0.01				
9/16/2021					<0.01		<0.01
1/25/2022		<0.01					
1/26/2022	<0.01		<0.01	<0.01			
1/27/2022					<0.01	0.00085 (J)	<0.01
8/24/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/25/2022							<0.01
8/26/2022						<0.01	
2/14/2023		<0.01	<0.01	<0.01			
2/15/2023	<0.01						<0.01
2/16/2023					<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.01	0.0008 (J)	<0.01	<0.01			
9/20/2023							<0.01
9/21/2023					<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (SU) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							7.67	
8/31/2016	6.97							6.75
9/1/2016		7.21						
9/6/2016			7.23					
9/7/2016				7.02	6.92	6.71		
12/6/2016							7.57	
12/7/2016	6.85	7.13	7.3					6.64
12/8/2016				6.95	6.9	6.61		
3/21/2017	7.04						7.54	6.73
3/22/2017		7.04	7.2	7.05	7			
3/23/2017						6.69		
7/11/2017	6.88		7.31				7.43	6.66
7/12/2017		7.09		7.06	6.95	6.69		
10/17/2017							7.7	
10/18/2017	6.77	7.2	7.28	6.99		6.88		6.73
10/19/2017						6.85		
2/20/2018	7.32 (D)						7.57	7.11
2/21/2018		7.11	7.1	6.95	6.89	6.66		
7/11/2018	7.12						7.48	7
7/12/2018		7.07	7.14	7.06	7.01	6.84		
8/15/2018					6.87			
8/16/2018				7.01				
9/12/2018	6.87						7.41	
9/13/2018		7.01	7.08		6.86			6.56
9/14/2018				6.83		6.76		
3/26/2019							7.49	
3/27/2019	6.98		7.23		6.92			6.75
3/28/2019		7.84		6.97		6.67		
9/10/2019								6.78
10/1/2019							7.5	
10/2/2019	6.96	7.22	7.22	6.99				
10/3/2019					6.78	6.93		
3/24/2020							7.79	
3/25/2020	7.02			6.93				6.84
3/26/2020		7.08	7.12		7.01	6.7		
8/25/2020							7.49	
8/26/2020	6.98	7.08	7.18	6.98		6.68		6.64
8/27/2020					6.88			
10/6/2020	7.01		7.24				7.35	6.78
10/7/2020		7.11		7.04	6.91	6.78		
3/3/2021	6.99					6.78	7.56	6.79
3/4/2021		7.09	7.34	7.09	6.91			
9/14/2021							7.45	
9/15/2021	6.94	7.09	7.12					6.72
9/16/2021				7.03	6.85	6.77		
1/25/2022							7.51	
1/26/2022	7.05	7.33	7.26					6.83
1/27/2022				7.03	6.92	6.8		
8/24/2022							7.49	
8/25/2022	6.93	7.15	7.14	7.05	6.76	6.67		6.76
2/14/2023	7.04						7.43	6.75
2/15/2023		7.09	7.1		6.73	6.66		

Time Series

Constituent: pH (SU) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				7.14				
9/19/2023			7.08				7.44	
9/20/2023	6.94	7.07		7.16	6.76	6.83		6.86

Time Series

Constituent: pH (SU) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.07
9/8/2016	7.1						
10/4/2016					6.88		
10/5/2016					6.91		
10/17/2016				7.43			
10/18/2016			7.15	7.45			
12/6/2016			7.04				
12/7/2016				7.29			6.85
12/8/2016	6.98				6.86		
3/21/2017			7.01				
3/22/2017	7.16						6.99
3/23/2017				7.26	6.9		
7/11/2017	7.15		6.96	7.31	7.82 (o)		
7/12/2017					6.81		6.83
10/17/2017		7.61	7.31	7.29			
10/18/2017	7.09						
10/19/2017					6.86		6.91
2/20/2018				7.26			
2/21/2018	7.12				7.02		6.97
7/11/2018		9.48	7.26	7.39			
7/12/2018			7.01		6.82		6.85
9/12/2018		9.07	7.02				
9/13/2018	7.03			7.25			6.88
9/14/2018					6.75		
3/26/2019			7				
3/27/2019	7.08	8.76		7.42			
3/28/2019					6.96		6.96
10/1/2019				7.43			
10/2/2019	7.2	8.97	7.09				
10/3/2019					7.01		6.85
3/24/2020		8.57					
3/25/2020	7.01		7.15	7.23			
3/26/2020					7		7.12
8/25/2020			7.14	7.53			
8/26/2020	7.09	7.97			6.99		7.01
10/6/2020		8.72	7.01	7.27			
10/7/2020	6.95				7.04		6.98
3/3/2021	7.04		7.14	7.41			
3/4/2021					7.22		6.95
3/8/2021		7.77					
9/14/2021		8.96		7.31			
9/15/2021	7.05		6.99				
9/16/2021					7.1		6.96
1/25/2022		8.4					
1/26/2022	7.28		7.1	7.44			
1/27/2022					7.18	7.3	7.03
8/24/2022	7.1	8.01	7.04	7.34	7.1		
8/25/2022							6.98
8/26/2022						7.09	
10/11/2022	7.13	7.94		7.37			
2/14/2023		7.97	7.09	7.36			
2/15/2023	7.02						6.92

Time Series

Constituent: pH (SU) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					7.13	7.06	
9/19/2023	7.18	8.82	7.02	7.43			
9/20/2023							7.15
9/21/2023					7.05	7.21	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	0.0012 (J)							0.0014 (J)
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.01		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.01
12/8/2016				<0.005	<0.005	<0.01		
3/21/2017	<0.005						<0.005	<0.01
3/22/2017		<0.005	<0.005	<0.005	<0.005			
3/23/2017						<0.01		
7/11/2017	<0.005		<0.005				<0.005	<0.01
7/12/2017		<0.005		<0.005	<0.005	<0.01		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.01
10/19/2017						<0.01		
2/20/2018	<0.005						<0.005	<0.01
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.01		
7/11/2018	<0.005						<0.005	<0.01
7/12/2018		<0.005	<0.005			<0.01		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.01
9/14/2018				<0.005		0.0015 (J)		
9/10/2019								0.0018 (X)
10/1/2019							<0.005	
10/2/2019	0.0015 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	0.0034 (X)		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				0.003 (J)
3/26/2020		<0.005	<0.005		<0.005	0.0016 (J)		
8/25/2020							<0.005	
8/26/2020	<0.005	0.0018 (J)	<0.005	<0.005		0.0031 (J)		0.0026 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.0027 (J)
10/7/2020		<0.005		<0.005	<0.005	0.0035 (J)		
3/3/2021	<0.005					0.0033 (J)	<0.005	0.0025 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					0.0024 (J)
9/16/2021				<0.005	<0.005	0.0033 (J)		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					0.0023 (J)
1/27/2022				<0.005	<0.005	0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		0.0023 (J)
2/14/2023	<0.005						<0.005	0.0015 (J)
2/15/2023		<0.005	<0.005		<0.005	0.0036 (J)		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	0.0024 (J)		0.0023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	<0.005						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				<0.005			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	<0.005						<0.005
3/23/2017				<0.005	<0.005		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	<0.005				<0.005		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	<0.005	<0.005	<0.005				
10/3/2019					<0.005		0.0017 (X)
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		0.0018 (J)
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	<0.005				<0.005		<0.005
3/3/2021	<0.005		<0.005	<0.005			
3/4/2021					<0.005		0.0018 (J)
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	0.0018 (J)
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							0.0017 (J)
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						0.0017 (J)
2/16/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							0.0015 (J)
9/21/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							2.1	
8/31/2016	4.1							29
9/1/2016		73						
9/6/2016			49					
9/7/2016				99	96	87		
12/6/2016							2.4	
12/7/2016	1.5	71	46					24
12/8/2016				94	94	84		
3/21/2017	2						2.5	31
3/22/2017		80	53	100	95			
3/23/2017						90		
7/11/2017	2		52				2.6	37
7/12/2017		78		100	96	93		
10/17/2017							2.5	
10/18/2017	4.2	82	58	100	99			34
10/19/2017						92		
2/20/2018	2.4						2.3	34.7
2/21/2018		72.2	48.2	98.8	91.8	84.5		
7/11/2018	3.8						2.5	35.4
7/12/2018		80.5	48.8			84.9		
8/15/2018					101			
8/16/2018				111				
9/12/2018	4.3						2	
9/13/2018		84.4	48.7		106			37.4
9/14/2018				102		89.5		
3/26/2019							2.7	
3/27/2019	8.2		46.5		111			41.9
3/28/2019		90.3		94.7		83.5		
9/10/2019								45.1
10/1/2019							2.8	
10/2/2019	6.2	83	48.5	104				
10/3/2019					95.8	84.9		
3/24/2020							3	
3/25/2020	11.9			92.4				47
3/26/2020		83.6	43.5		91	84.9		
10/6/2020	11		42.4				2.4	71.2
10/7/2020		80.7		89.1	87.3	83.3		
3/3/2021	8.8					80.8	2.2	66
3/4/2021		74.1	38.9	66.8	88.6			
9/14/2021							2.6	
9/15/2021	11.4	73.4	37.8					46.8
9/16/2021				70.9	86.9	72.7		
1/25/2022							2.4	
1/26/2022	9.1	77.2	38.9					37.8
1/27/2022				62.1	89.9 (M1)	76.3		
8/24/2022							2.2	
8/25/2022	10.7	75.5	38.7	62.7	96.3	84.4		45.6
2/14/2023	10						1.6	35.1
2/15/2023		75.7 (M1)	38.1		96.6	78.8		
2/16/2023				54.2				
9/19/2023			37.5				2.2	
9/20/2023	12.5	74.9		34.3	93.8	83.4		44.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							62
9/8/2016	48						
10/18/2016			2.2	2.3			
12/6/2016			6.1				
12/7/2016				1.9			57
12/8/2016	46				100		
3/21/2017			5.7				
3/22/2017	53						61
3/23/2017				1.7	100		
7/11/2017	51		4.8	1.8			
7/12/2017					97		53
10/17/2017			6.4	1.9			
10/18/2017	50						
10/19/2017					97		55
2/20/2018			5.2	2.1			
2/21/2018	46.8				93.6		52.1
4/12/2018		4.8 (J)					
5/23/2018		4.5					
6/13/2018		5.3					
7/11/2018		5.4	3.6	2			
7/12/2018	48.3				89.4		53.9
8/17/2018		4.5					
9/12/2018		4.4	2.7				
9/13/2018	42			2.1			67.5
9/14/2018					88.9		
10/4/2018		5.8			97.8		
10/24/2018		6.2					
3/26/2019			1.6				
3/27/2019	43.7	3.7		2.4			
3/28/2019					76.7		59.6
10/1/2019				2.2			
10/2/2019	43	4.1	1.6				
10/3/2019					72.1		59.6
3/24/2020		3.1					
3/25/2020	39.1		1.5	1.9			
3/26/2020					66.6		57.1
10/6/2020		3.1	0.98 (J)	1.9			
10/7/2020	38.1				54.6		48.9
3/3/2021	39.2		0.6 (J)	2			
3/4/2021					49.3		49.7
3/8/2021		2.7					
9/14/2021		3.8		1.8			
9/15/2021	37.8		0.64 (J)				
9/16/2021					40.4		41.8
1/25/2022		2.9					
1/26/2022	37.5		0.69 (J)	1.9			
1/27/2022					40	94.5	46.7
8/24/2022	35.7	2	0.56 (J)	1.7	34.7		
8/25/2022							47.3
8/26/2022						87.2	
2/14/2023		2.6	0.89 (J)	2			
2/15/2023	37.1						49.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					36	77.7	
9/19/2023	34.7	3.2	0.61 (J)	1.5			
9/20/2023							40.7
9/21/2023					34.8	66.7	

Time Series

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							136	
8/31/2016	344							400
9/1/2016		284						
9/6/2016			257					
9/7/2016				392	415	508		
12/6/2016							207	
12/7/2016	393	242	248					406
12/8/2016				431	441	556		
3/21/2017	276						128	409
3/22/2017		332	304	456	469			
3/23/2017						482		
7/11/2017	263		265				138	414
7/12/2017		308		445	432	497		
10/17/2017							101	
10/18/2017	261	275	240	349	368			366
10/19/2017						448		
2/20/2018	295						138	429
2/21/2018		312	285	411	409	500		
7/11/2018	294						153	440
7/12/2018		337	285			523		
8/15/2018					422			
8/16/2018				415				
9/12/2018	286						146	
9/13/2018		336	291		438			448
9/14/2018				403		486		
3/26/2019							334	
3/27/2019	281		277		408			410
3/28/2019		337		420		378		
9/10/2019								420
10/1/2019							146	
10/2/2019	312	355	284	415				
10/3/2019					464	485		
3/24/2020							228	
3/25/2020	330			408				454
3/26/2020		330	286		415	440		
10/6/2020	241		261				153	462
10/7/2020		336		392	425	492		
3/3/2021	258					452	134	444
3/4/2021		300	264	325	427			
9/14/2021							150	
9/15/2021	292	326	270					422
9/16/2021				330	419	450		
1/25/2022							148	
1/26/2022	288	308	267					413
1/27/2022				329	433	442		
8/24/2022							139	
8/25/2022	259	319	90	321	446	528		437
2/14/2023	300						200	414
2/15/2023		329	334		477	529		
2/16/2023				299				
9/19/2023			298				146	
9/20/2023	293	328		256	451	512		421

Time Series

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							373
9/8/2016	293						
10/18/2016			264	152			
12/6/2016			299				
12/7/2016				214			433
12/8/2016	309				503 (o)		
3/21/2017			260				
3/22/2017	299						409
3/23/2017				165	430		
7/11/2017	301		244	162			
7/12/2017					438		374
10/17/2017			218	140			
10/18/2017	256						
10/19/2017					393		318
2/20/2018			264	163			
2/21/2018	297				435		367
4/12/2018		69					
5/23/2018		62					
6/13/2018		93					
7/11/2018		84	273	192			
7/12/2018	310				447		423
8/17/2018		115					
9/12/2018		97	252				
9/13/2018	307			192			394
9/14/2018					447		
10/4/2018		103			450		
10/24/2018		110					
3/26/2019			253				
3/27/2019	287	87		167			
3/28/2019					405		365
10/1/2019				187			
10/2/2019	312	95	263				
10/3/2019					414		405
3/24/2020		123					
3/25/2020	280		278	178			
3/26/2020					336		332
10/6/2020		81	254	169			
10/7/2020	280				337		334
3/3/2021	267		264	166			
3/4/2021					283		335
3/8/2021		126					
9/14/2021		71		179			
9/15/2021	272		256				
9/16/2021					296		307
1/25/2022		68					
1/26/2022	276		262	182			
1/27/2022					274	387	331
8/24/2022			261		265		
8/25/2022							325
8/26/2022						358	
10/11/2022	267	75		173			
2/14/2023		140	257	177			

Time Series

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/15/2023	264						335 (D6)
2/16/2023					293	421	
9/19/2023	311	86	265	217			
9/20/2023							302
9/21/2023					300	311	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					0.0002 (J)
12/8/2016				<0.001	<0.001	0.0003 (J)		
3/21/2017	6E-05 (J)						<0.001	0.0003 (J)
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)			
3/23/2017						0.0003 (J)		
7/11/2017	<0.001		0.0002 (J)				<0.001	0.0002 (J)
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)		
10/17/2017							<0.001	
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)			0.0001 (J)
10/19/2017						0.0005 (J)		
2/20/2018	<0.001						<0.001	0.00026 (J)
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)		
7/11/2018	<0.001						<0.001	0.00018 (J)
7/12/2018		<0.001	<0.001			0.00077 (J)		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	0.00017 (J)		<0.001			<0.001
9/14/2018				<0.001		0.00076 (J)		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)				
10/3/2019					<0.001	0.00071 (X)		
3/24/2020							<0.001	
3/25/2020	<0.001			0.0002 (J)				0.00015 (J)
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)		
8/25/2020							<0.001	
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)		0.00016 (J)
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				<0.001	<0.001
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)		
3/3/2021	<0.001					0.00072 (J)	<0.001	0.00017 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001					<0.001
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)		
2/16/2023				0.00038 (J)				
9/19/2023			<0.001				0.00028 (J)	
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	<0.001			
12/6/2016			<0.001				
12/7/2016				0.0002 (J)			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			6E-05 (J)				
3/22/2017	<0.001						0.0002 (J)
3/23/2017				8E-05 (J)	0.0001 (J)		
7/11/2017	<0.001		<0.001	7E-05 (J)			
7/12/2017					0.0001 (J)		0.0001 (J)
10/17/2017			<0.001	8E-05 (J)			
10/18/2017	<0.001						
10/19/2017					0.0001 (J)		0.0001 (J)
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		0.00016 (J)					
10/1/2019				<0.001			
10/2/2019	0.00024 (X)	<0.001	<0.001				
10/3/2019					0.00018 (X)		7.8E-05 (X)
3/24/2020		<0.001					
3/25/2020	0.00037 (J)		<0.001	<0.001			
3/26/2020					0.00015 (J)		8.5E-05 (J)
8/25/2020			<0.001	<0.001			
8/26/2020	0.00037 (J)	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	0.00027 (J)				<0.001		<0.001
3/3/2021	0.00036 (J)		<0.001	<0.001			
3/4/2021					<0.001		<0.001
3/8/2021		<0.001					
9/14/2021		<0.001		<0.001			
9/15/2021	0.00066 (J)		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	0.00039 (J)		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	0.00048 (J)	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	0.00045 (J)						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/6/2023 11:51 AM View: Time Series & Box Plot

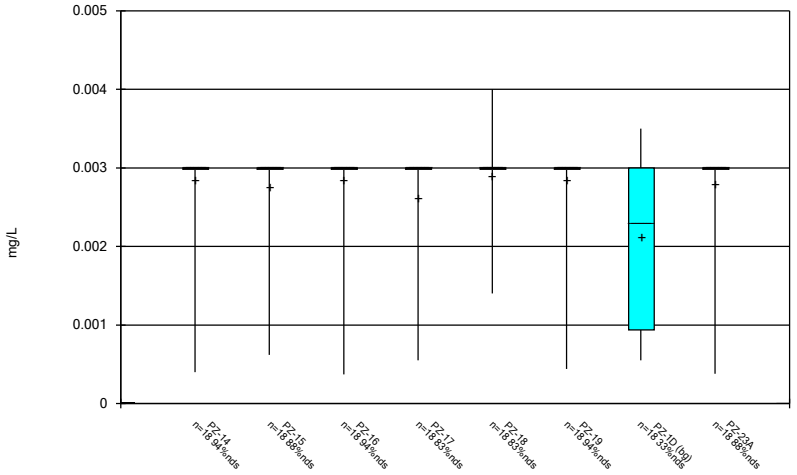
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.00061 (J)	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

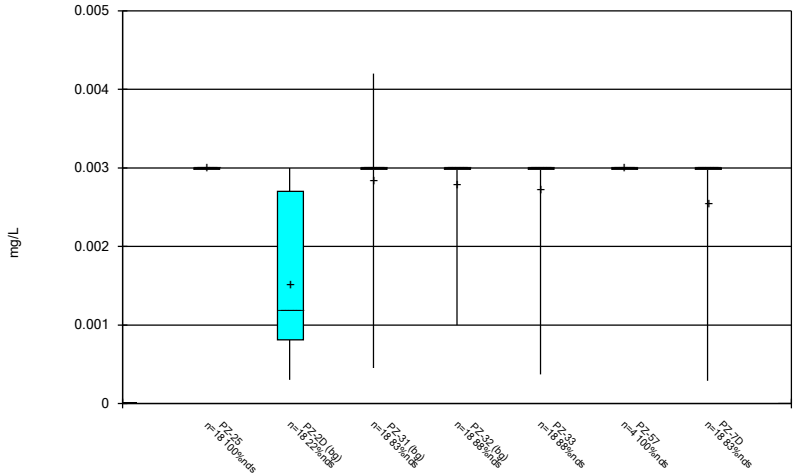
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

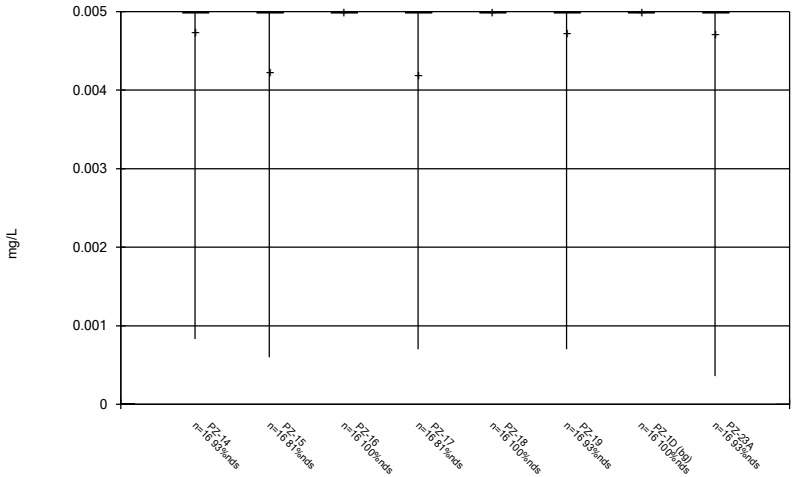
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

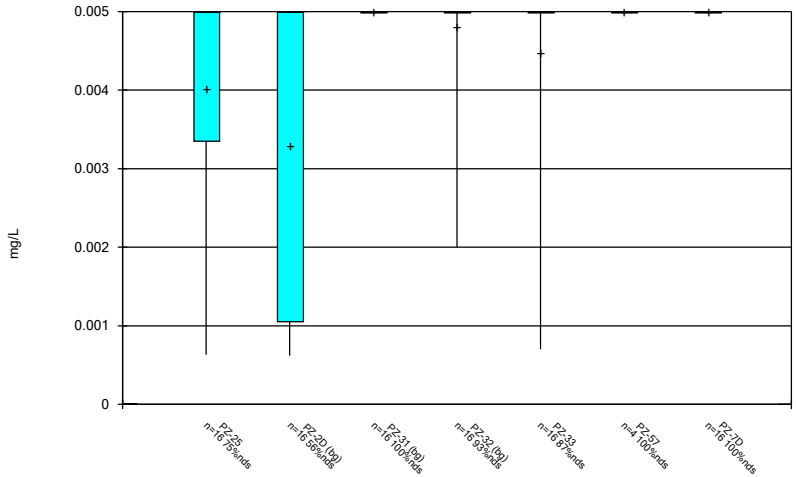
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

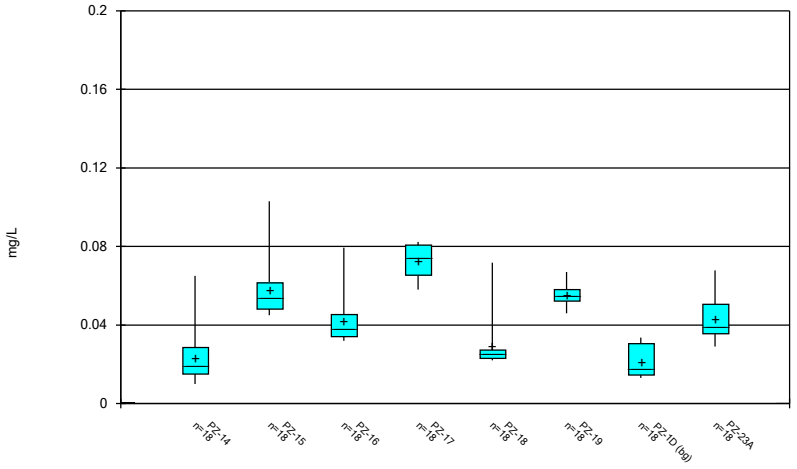
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

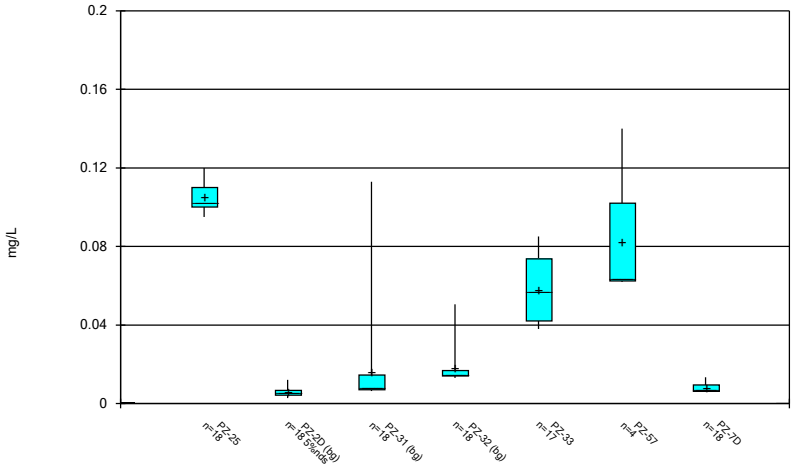
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

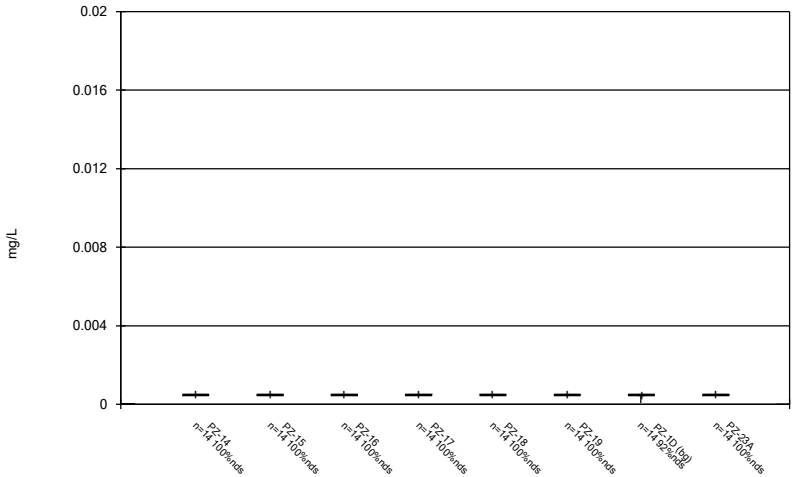
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

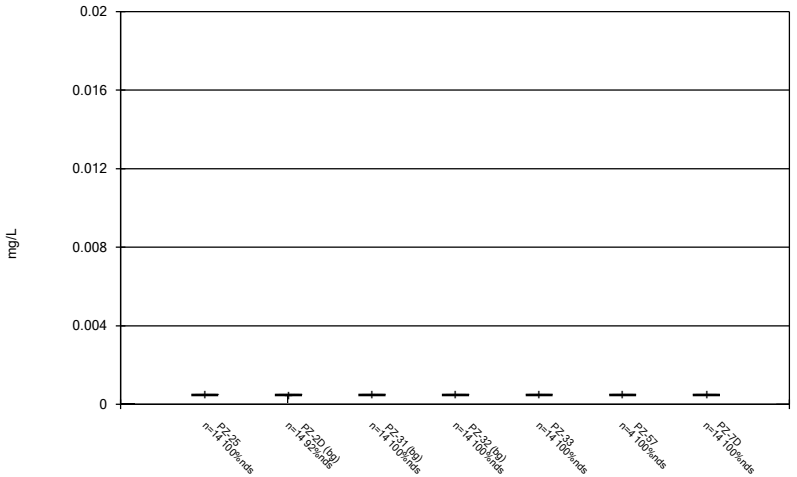
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

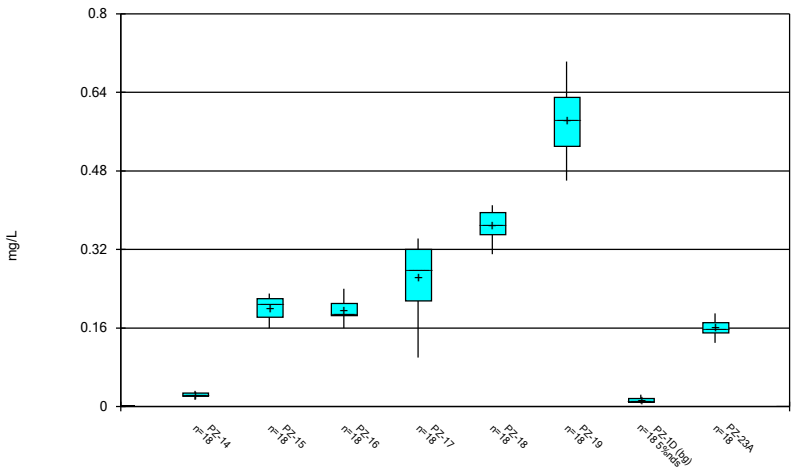
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

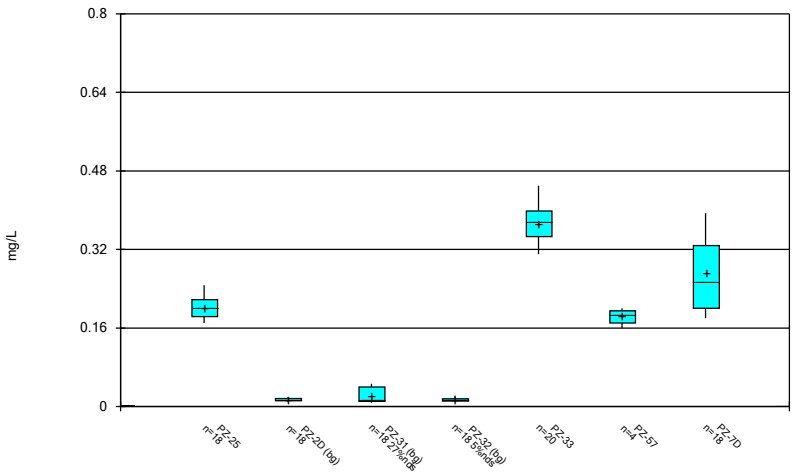
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

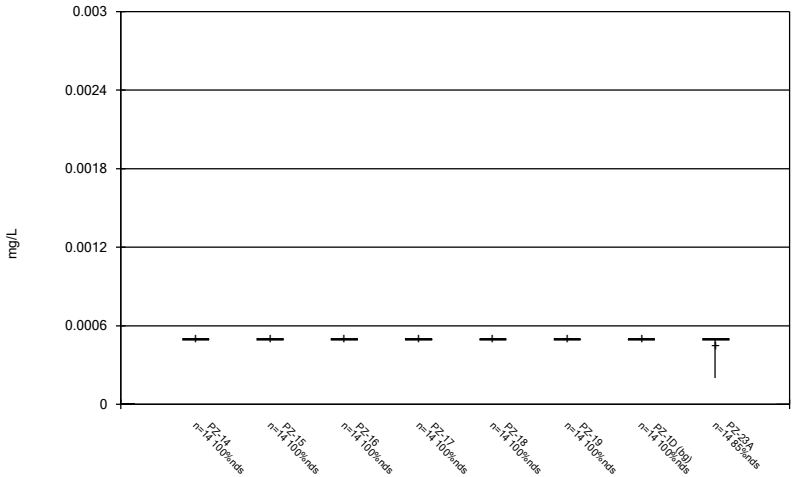
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

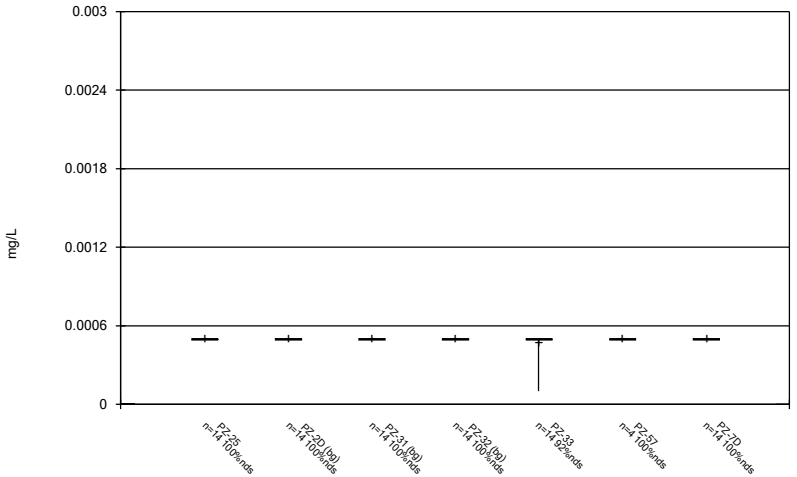
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

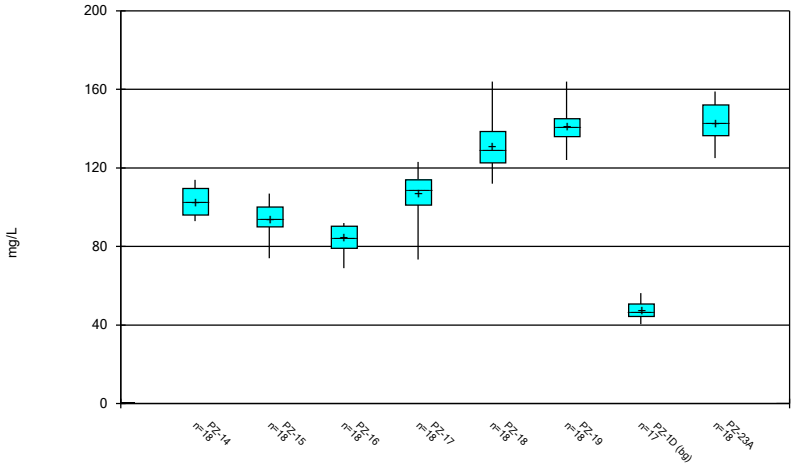
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

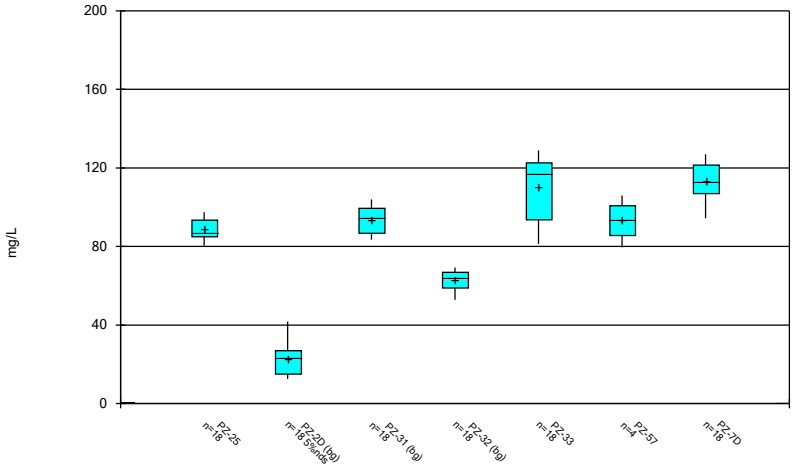
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

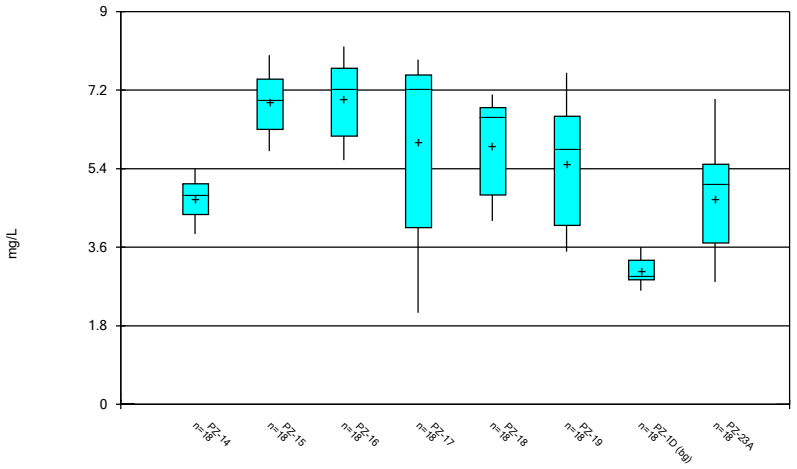
Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

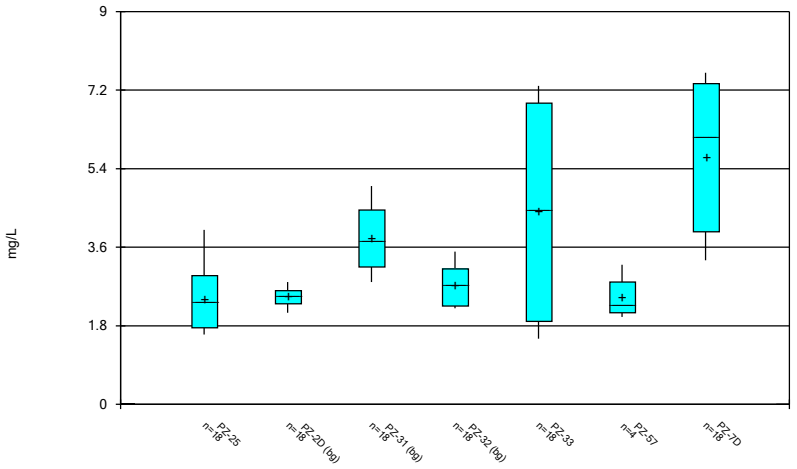
Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

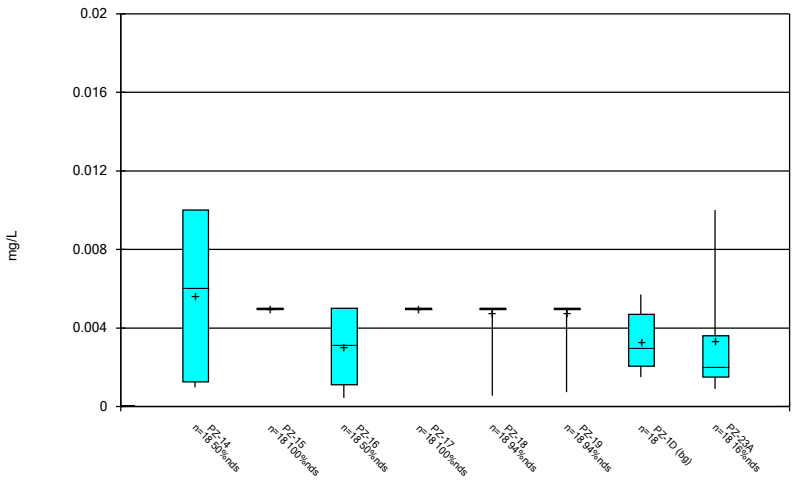
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

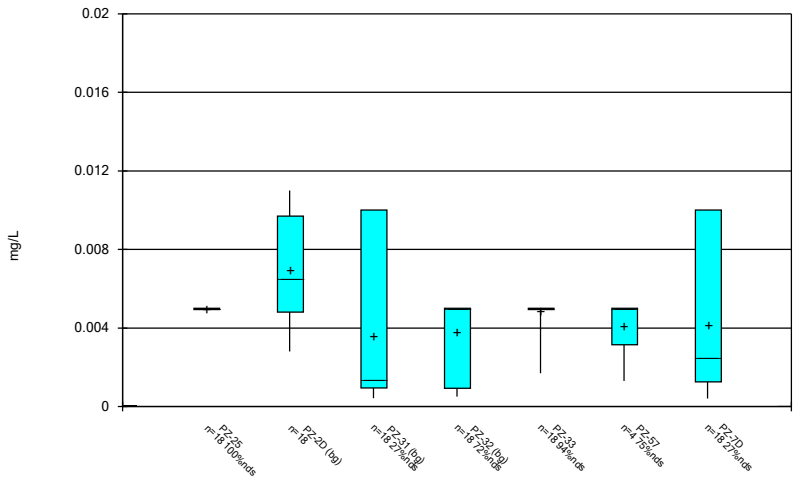
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

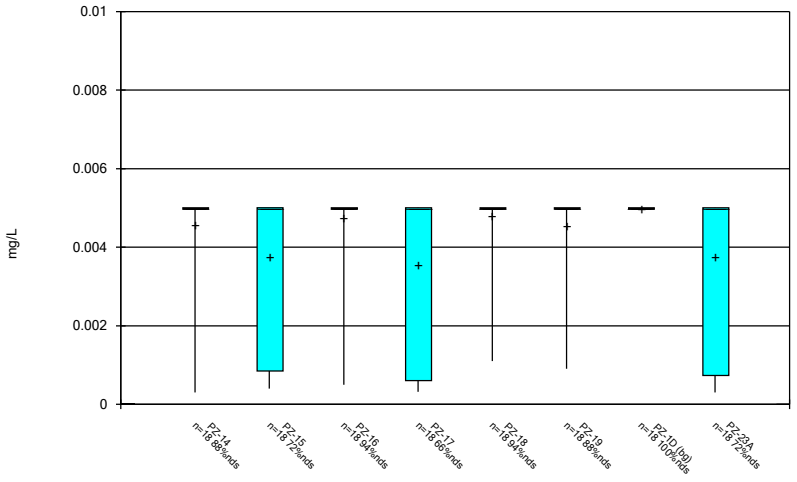
Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

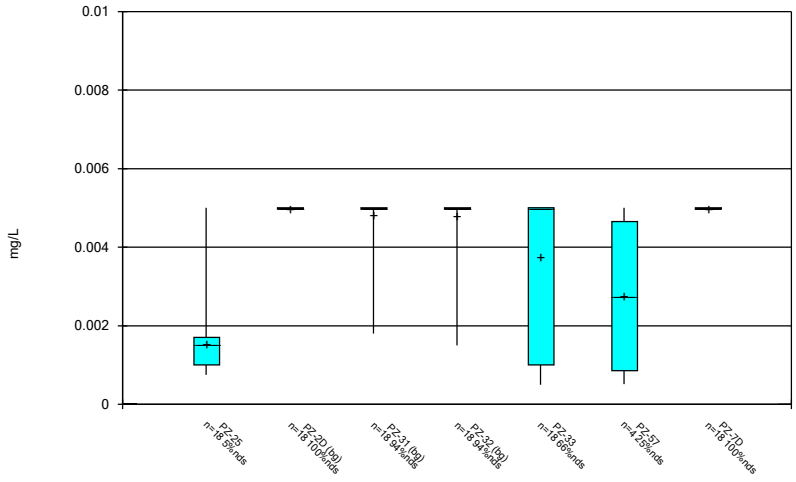
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

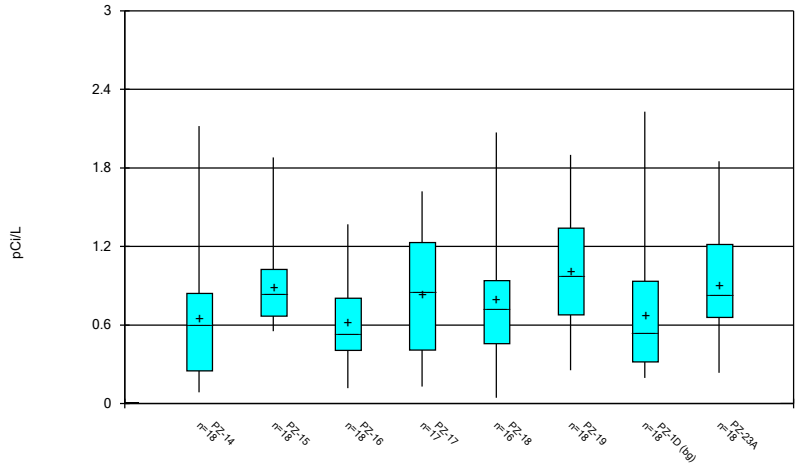
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

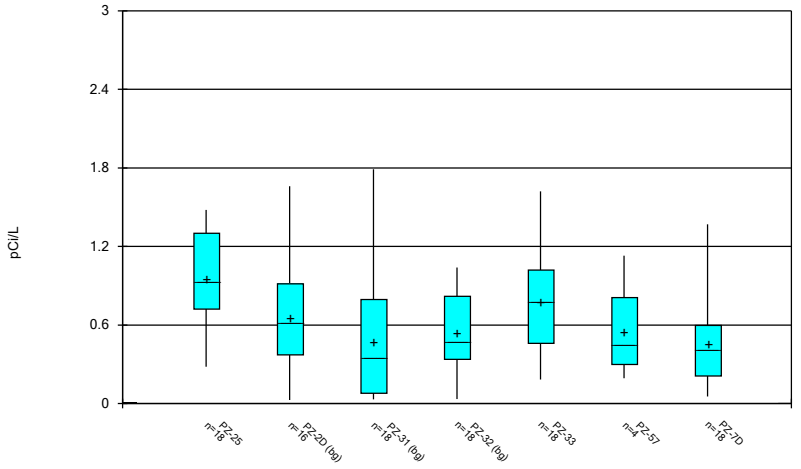
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plo
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

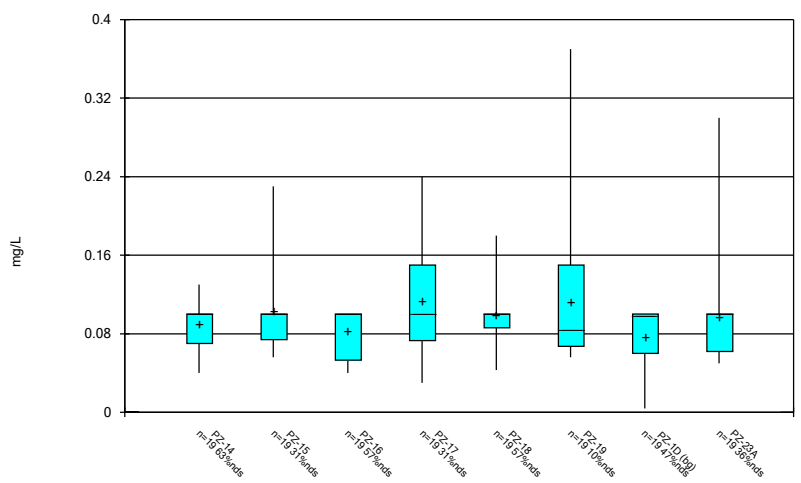
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plo
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

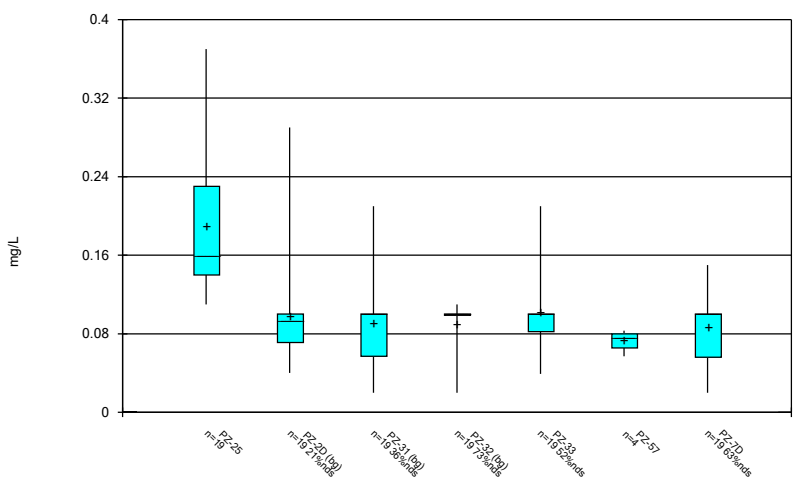
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

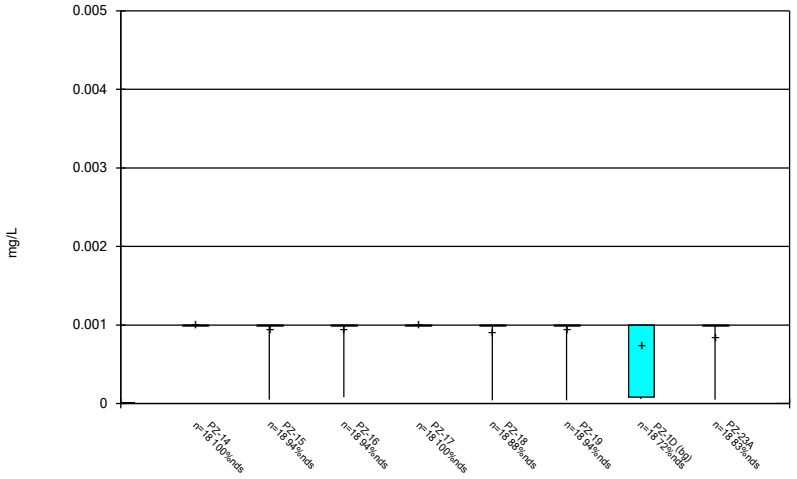
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

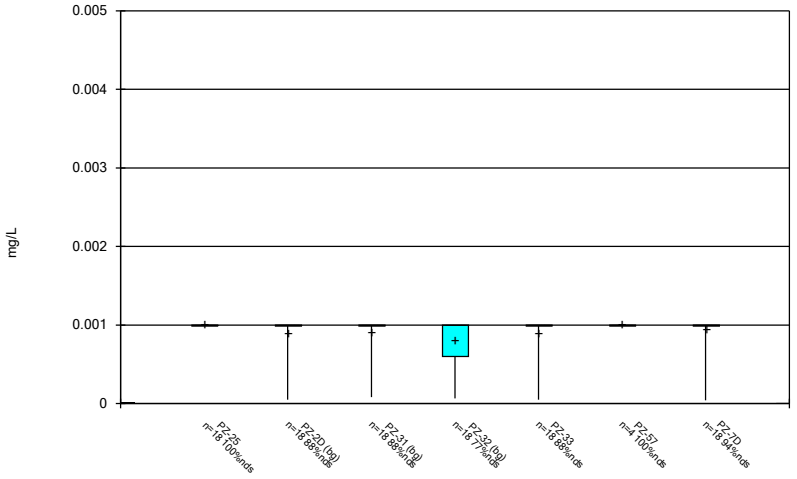
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

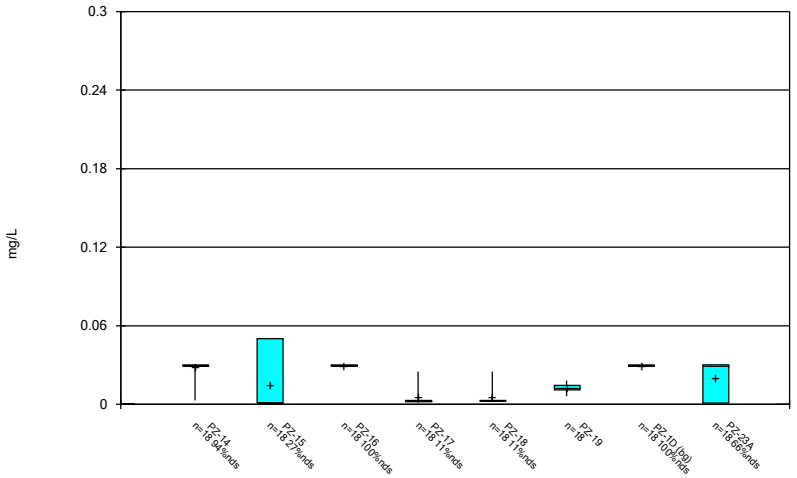
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

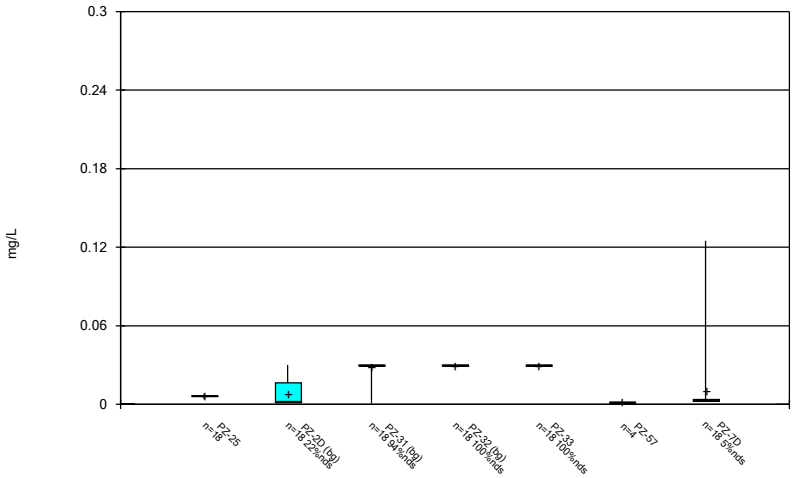
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

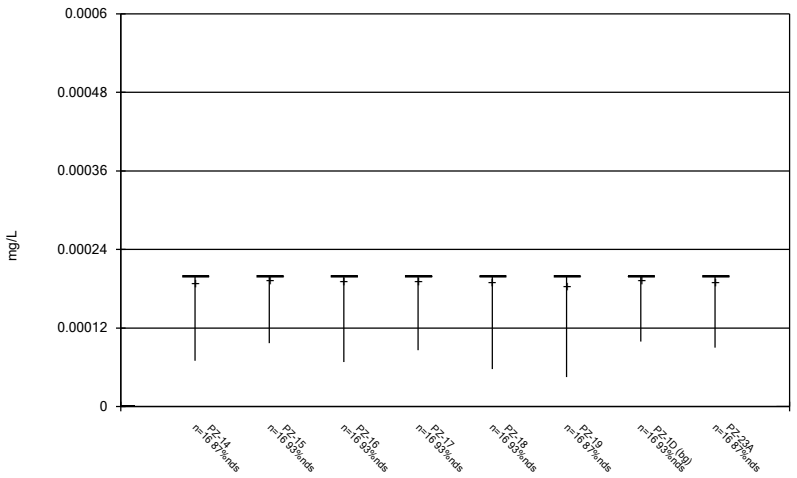
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

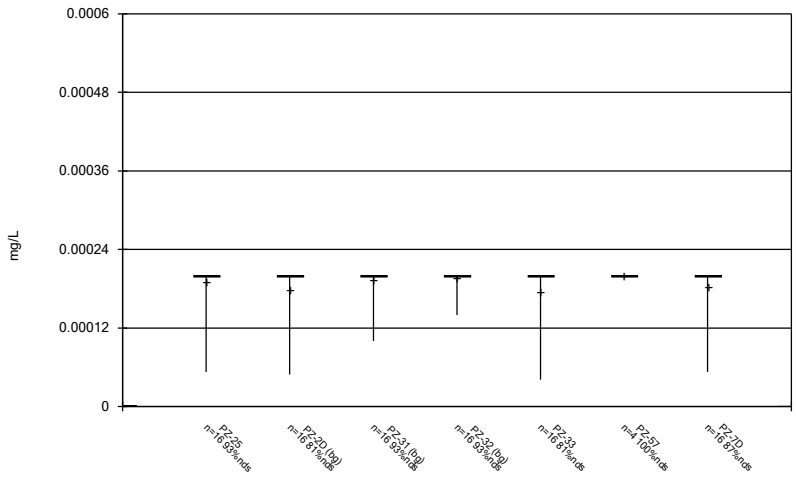
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

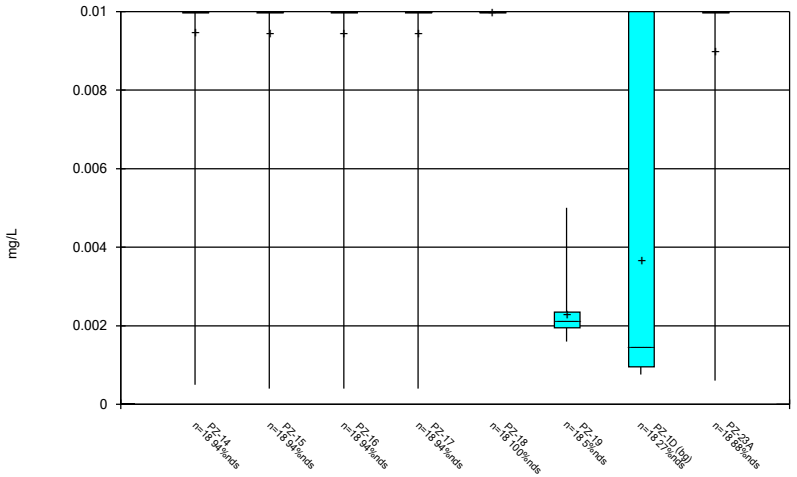
Box & Whiskers Plot



Constituent: Mercury Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

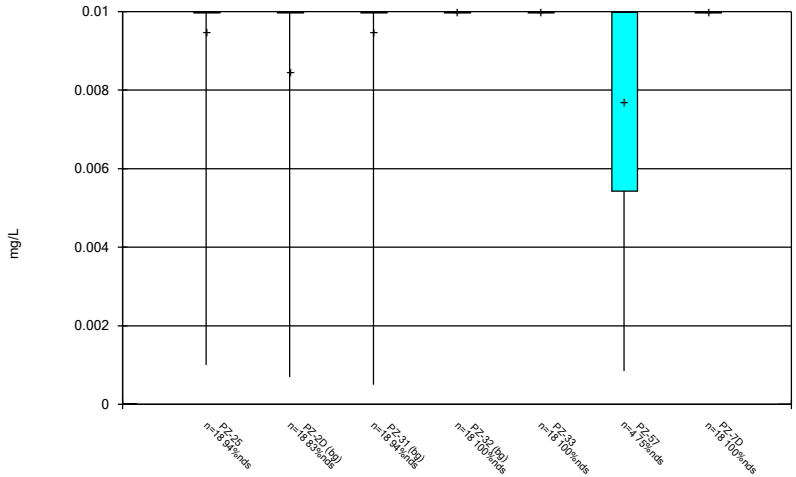
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

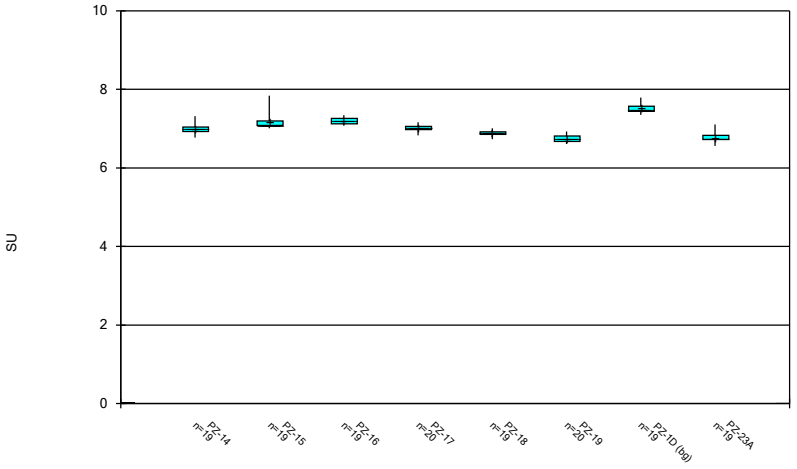
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

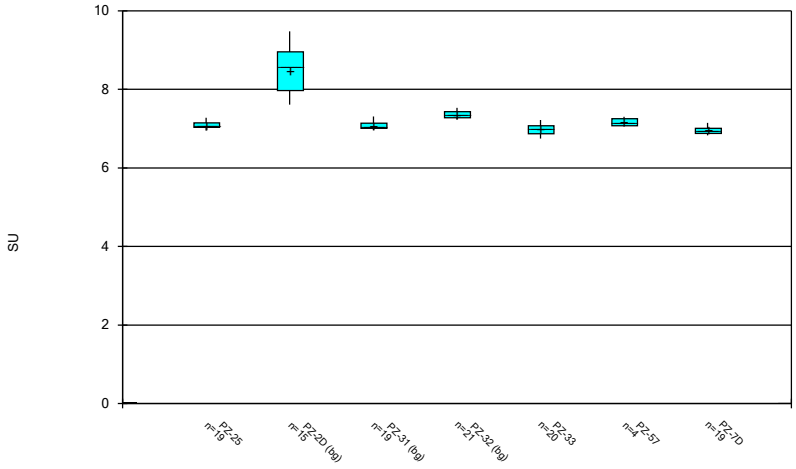
Box & Whiskers Plot



Constituent: pH Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

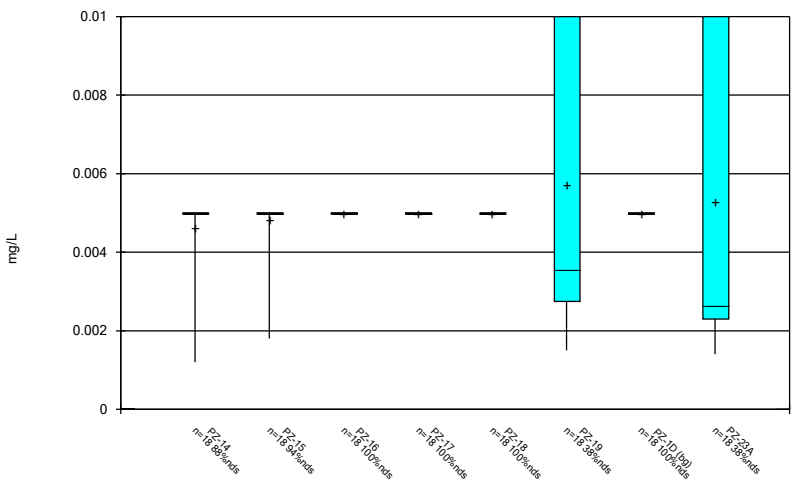
Box & Whiskers Plot



Constituent: pH Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

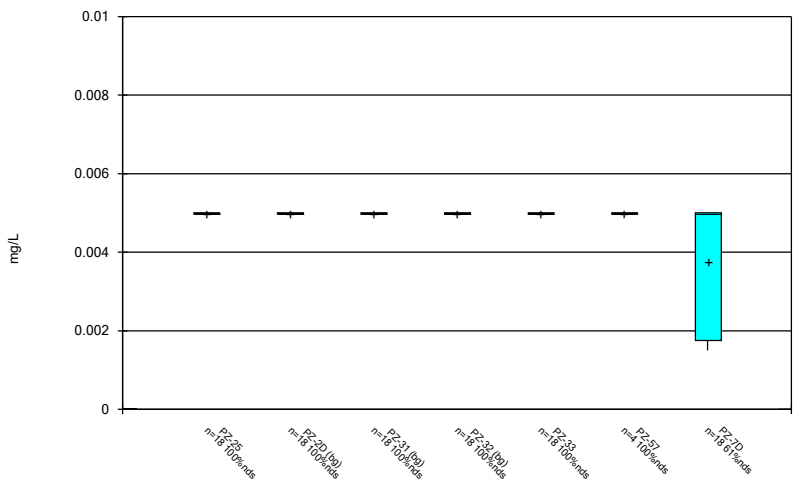
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

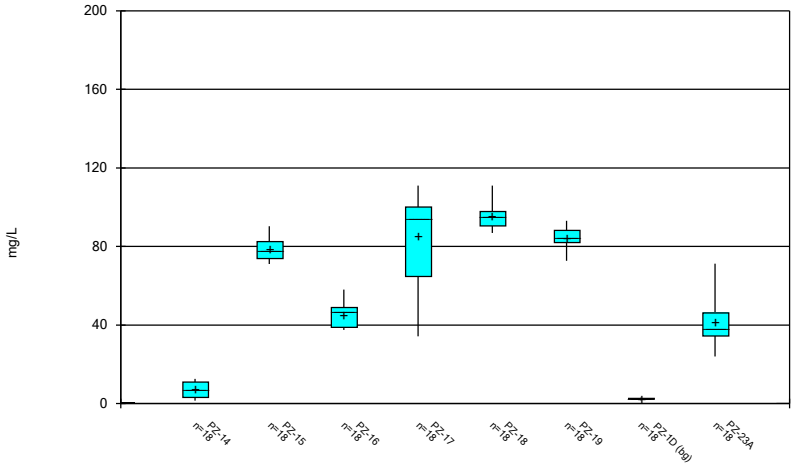
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

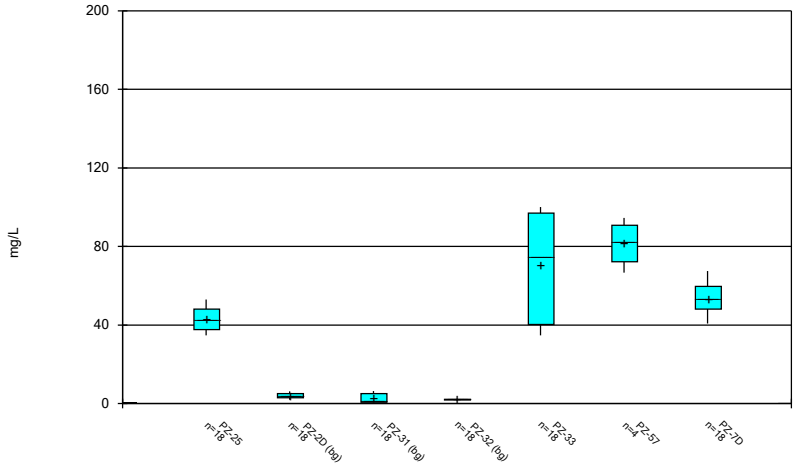
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

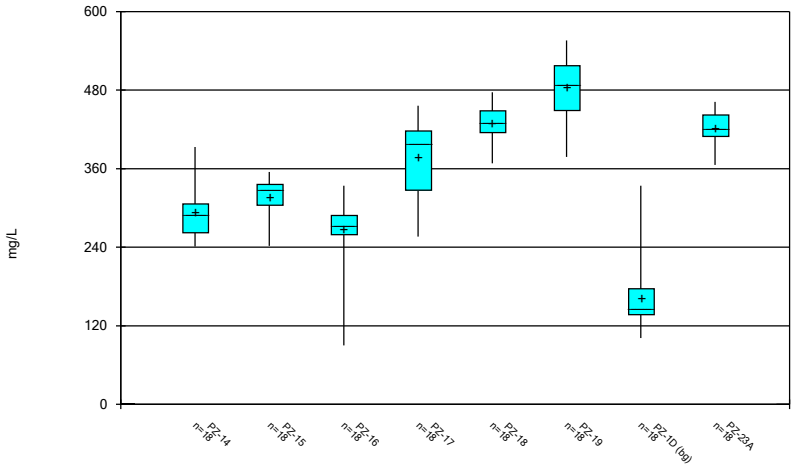
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

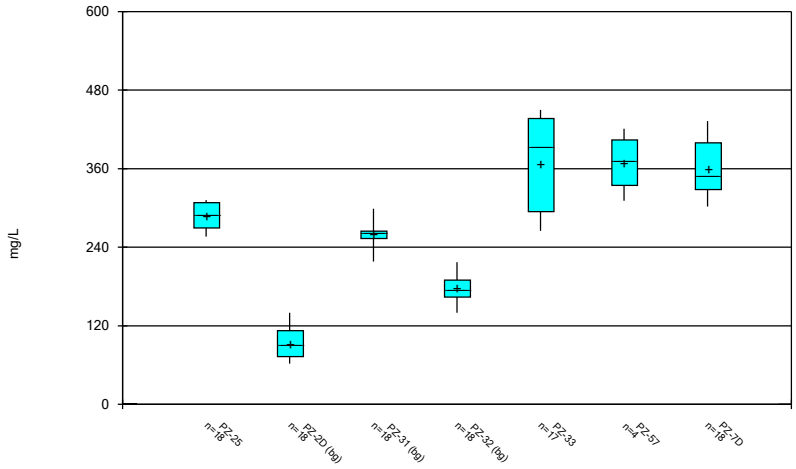
Box & Whiskers Plot



Constituent: TDS Analysis Run 11/6/2023 11:52 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

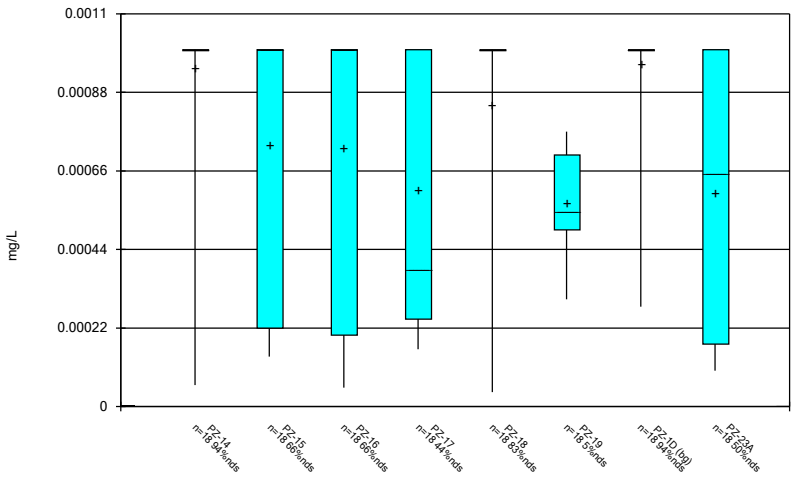
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: TDS Analysis Run 11/6/2023 11:53 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

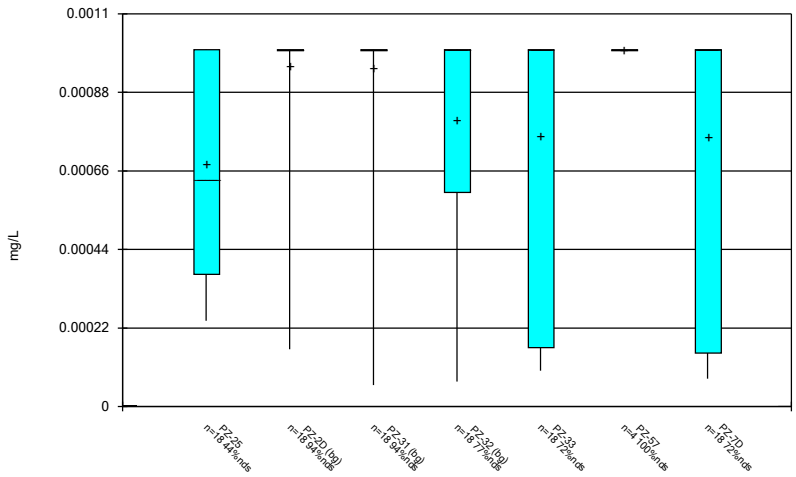
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/6/2023 11:53 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/6/2023 11:53 AM View: Time Series & Box Plot
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE C.

Outlier Summary

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:54 AM

	PZ-33 Barium (mg/L)	PZ-1D Calcium (mg/L)	PZ-33 pH (SU)	PZ-33 TDS (mg/L)
12/8/2016	0.162 (o)			503 (o)
7/11/2017			7.82 (o)	
7/11/2018		65.3 (o)		

FIGURE D.

Appendix III Interwell Prediction Limit - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02672	n/a	9/20/2023	0.18	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02672	n/a	9/19/2023	0.19	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02672	n/a	9/20/2023	0.1	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02672	n/a	9/20/2023	0.41	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02672	n/a	9/20/2023	0.62	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02672	n/a	9/20/2023	0.15	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02672	n/a	9/19/2023	0.18	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02672	n/a	9/21/2023	0.45	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02672	n/a	9/20/2023	0.19	Yes	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	109.6	n/a	9/20/2023	129	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	109.6	n/a	9/20/2023	143	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	109.6	n/a	9/20/2023	131	Yes	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.427	n/a	9/20/2023	6.2	Yes	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.427	n/a	9/19/2023	5.9	Yes	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-14	9.48	6.96	9/20/2023	6.94	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	9/20/2023	6.76	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	9/20/2023	6.83	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	9/20/2023	6.86	Yes	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	6.248	n/a	9/20/2023	12.5	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	6.248	n/a	9/20/2023	74.9	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	6.248	n/a	9/19/2023	37.5	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	6.248	n/a	9/20/2023	34.3	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	6.248	n/a	9/20/2023	93.8	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	6.248	n/a	9/20/2023	83.4	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	6.248	n/a	9/20/2023	44.3	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	6.248	n/a	9/19/2023	34.7	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	6.248	n/a	9/21/2023	34.8	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	6.248	n/a	9/20/2023	40.7	Yes	72	1.356	0.2439	0	None	x^(1/3)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	306.8	n/a	9/20/2023	328	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	306.8	n/a	9/20/2023	451	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	306.8	n/a	9/20/2023	512	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	306.8	n/a	9/20/2023	421	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	306.8	n/a	9/19/2023	311	Yes	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III Interwell Prediction Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02672	n/a	9/20/2023	0.027J	No	72	-4.307	0.3433	9.722	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02672**	**n/a**	**9/20/2023**	**0.18**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02672**	**n/a**	**9/19/2023**	**0.19**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02672**	**n/a**	**9/20/2023**	**0.1**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02672**	**n/a**	**9/20/2023**	**0.41**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02672**	**n/a**	**9/20/2023**	**0.62**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02672**	**n/a**	**9/20/2023**	**0.15**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02672**	**n/a**	**9/19/2023**	**0.18**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02672**	**n/a**	**9/21/2023**	**0.45**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02672**	**n/a**	**9/20/2023**	**0.19**	**Yes**	**72**	**-4.307**	**0.3433**	**9.722**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	109.6	n/a	9/20/2023	98.2	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	109.6	n/a	9/20/2023	89.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	109.6	n/a	9/19/2023	83.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	109.6	n/a	9/20/2023	73.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**109.6**	**n/a**	**9/20/2023**	**129**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**109.6**	**n/a**	**9/20/2023**	**143**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**109.6**	**n/a**	**9/20/2023**	**131**	**Yes**	**71**	**56.66**	**26.54**	**1.408**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	109.6	n/a	9/19/2023	80.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	109.6	n/a	9/21/2023	81.4	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	109.6	n/a	9/20/2023	94.3	No	71	56.66	26.54	1.408	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	4.427	n/a	9/20/2023	4.3	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	**PZ-15**	**4.427**	**n/a**	**9/20/2023**	**6.2**	**Yes**	**72**	**1.083**	**0.203**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	**PZ-16**	**4.427**	**n/a**	**9/19/2023**	**5.9**	**Yes**	**72**	**1.083**	**0.203**	**0**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Chloride (mg/L)	PZ-17	4.427	n/a	9/20/2023	2.1	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.427	n/a	9/20/2023	4.2	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.427	n/a	9/20/2023	4.1	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.427	n/a	9/20/2023	2.8	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.427	n/a	9/19/2023	1.6	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.427	n/a	9/21/2023	2.8	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.427	n/a	9/20/2023	3.4	No	72	1.083	0.203	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	9/20/2023	0.064J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	9/19/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	9/20/2023	0.073J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	9/20/2023	0.082J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	9/20/2023	0.062J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	9/19/2023	0.14	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	9/21/2023	0.074J	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	9/20/2023	0.1ND	No	76	n/a	n/a	44.74	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (SU)	**PZ-14**	**9.48**	**6.96**	**9/20/2023**	**6.94**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-15	9.48	6.96	9/20/2023	7.07	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	9/19/2023	7.08	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	9/20/2023	7.16	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**9/20/2023**	**6.76**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**9/20/2023**	**6.83**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**9/20/2023**	**6.86**	**Yes**	**74**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006993**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	9/19/2023	7.18	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	9/21/2023	7.05	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	9/20/2023	7.15	No	74	n/a	n/a	0	n/a	n/a	0.0006993	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**6.248**	**n/a**	**9/20/2023**	**12.5**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**6.248**	**n/a**	**9/20/2023**	**74.9**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**6.248**	**n/a**	**9/19/2023**	**37.5**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**6.248**	**n/a**	**9/20/2023**	**34.3**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**6.248**	**n/a**	**9/20/2023**	**93.8**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**6.248**	**n/a**	**9/20/2023**	**83.4**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**6.248**	**n/a**	**9/20/2023**	**44.3**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**6.248**	**n/a**	**9/19/2023**	**34.7**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**6.248**	**n/a**	**9/21/2023**	**34.8**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**6.248**	**n/a**	**9/20/2023**	**40.7**	**Yes**	**72**	**1.356**	**0.2439**	**0**	**None**	**x^(1/3)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-14	306.8	n/a	9/20/2023	293	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-15**	**306.8**	**n/a**	**9/20/2023**	**328**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	306.8	n/a	9/19/2023	298	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	306.8	n/a	9/20/2023	256	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-18**	**306.8**	**n/a**	**9/20/2023**	**451**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**306.8**	**n/a**	**9/20/2023**	**512**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**306.8**	**n/a**	**9/20/2023**	**421**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-25**	**306.8**	**n/a**	**9/19/2023**	**311**	**Yes**	**72**	**173.2**	**67.01**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 11:59 AM

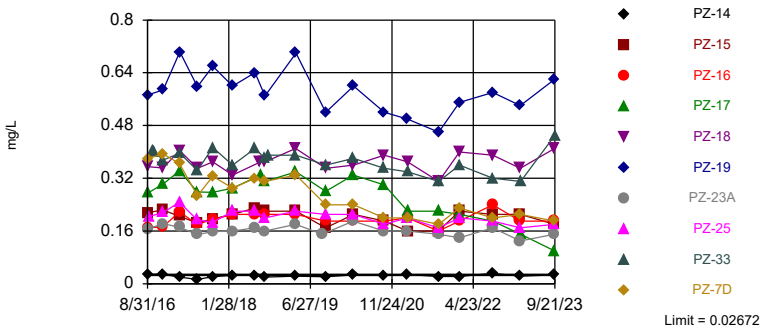
Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	PZ-33	306.8	n/a	9/21/2023	300	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	306.8	n/a	9/20/2023	302	No	72	173.2	67.01	0	None	No	0.0007523	Param Inter 1 of 2

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.307, Std. Dev.=0.3433, n=72, 9.722% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9648, critical = 0.954. Kappa = 1.994 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Boron Analysis Run 11/6/2023 11:57 AM View: Interwell PL

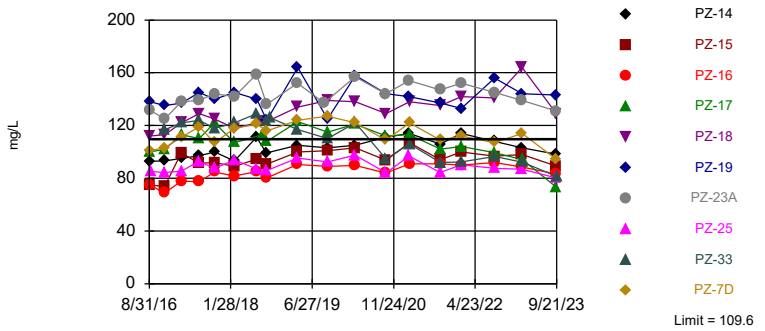
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=56.66, Std. Dev.=26.54, n=71, 1.408% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9662, critical = 0.953. Kappa = 1.995 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Calcium Analysis Run 11/6/2023 11:57 AM View: Interwell PL

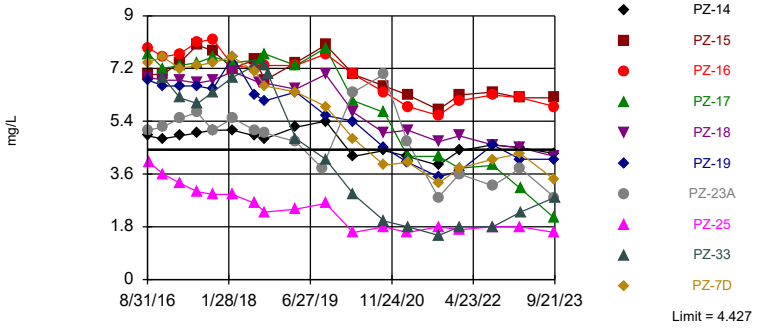
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: PZ-15, PZ-16

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=1.083, Std. Dev.=0.203, n=72. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.96, critical = 0.954. Kappa = 1.994 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Chloride Analysis Run 11/6/2023 11:57 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

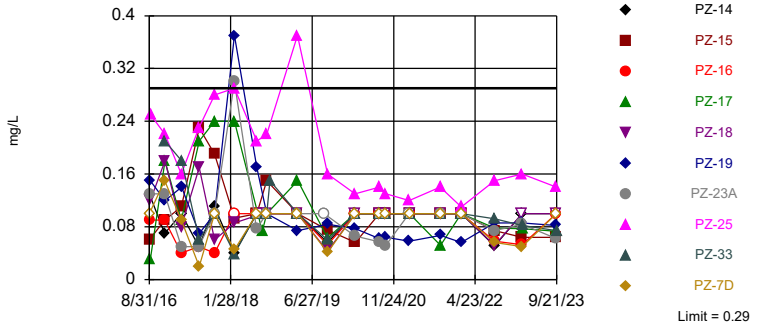
Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

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 76 background values. 44.74% NDs. Annual per-constituent alpha = 0.006622. Individual comparison alpha = 0.0003321 (1 of 2). Comparing 10 points to limit.

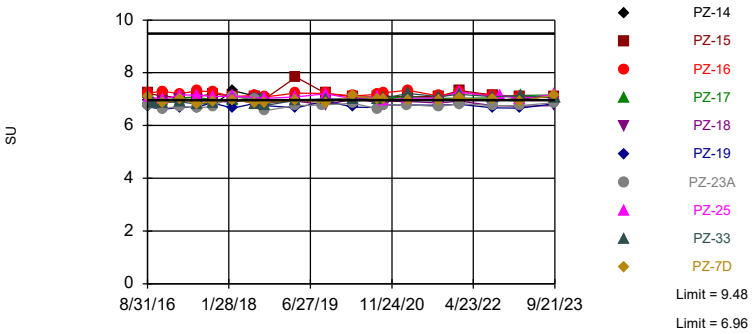
Constituent: Fluoride Analysis Run 11/6/2023 11:57 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limits: PZ-14, PZ-18, PZ-19, PZ-23A

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. Limits are highest and lowest of 74 background values. Annual per-constituent alpha = 0.01394. Individual comparison alpha = 0.0006993 (1 of 2). Comparing 10 points to limit.

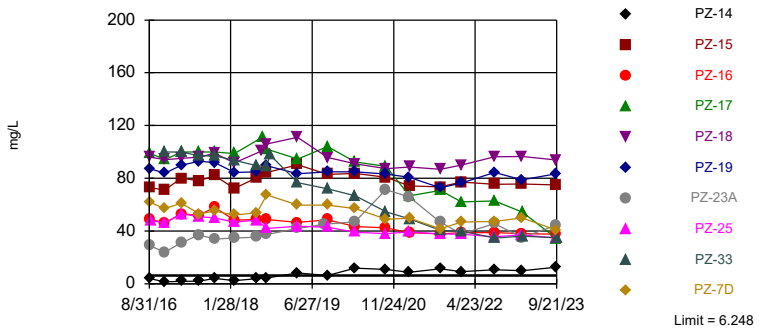
Constituent: pH Analysis Run 11/6/2023 11:57 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.356, Std. Dev.=0.2439, n=72. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9578, critical = 0.954. Kappa = 1.994 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

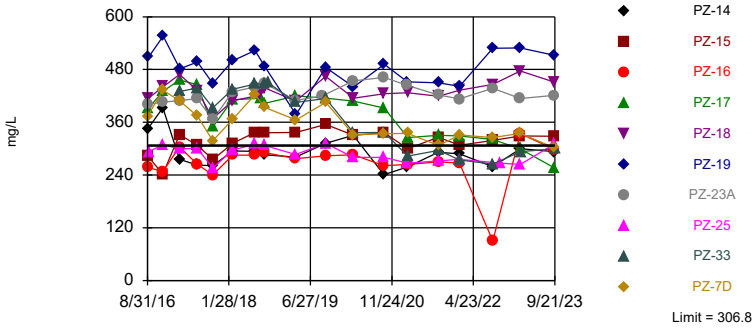
Constituent: Sulfate Analysis Run 11/6/2023 11:57 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Exceeds Limit: PZ-15, PZ-18, PZ-19, PZ-23A, PZ-25

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.2, Std. Dev.=67.01, n=72. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9655, critical = 0.954. Kappa = 1.994 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: TDS Analysis Run 11/6/2023 11:57 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
8/30/2016	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.215	0.379				
9/6/2016						0.17			
9/7/2016							0.276	0.573	0.355
9/8/2016									
10/5/2016									
10/10/2016									
10/18/2016									
12/6/2016	0.0096 (J)								
12/7/2016		0.0292 (J)	0.182	0.224	0.394	0.173			
12/8/2016							0.303	0.588	0.351
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.205	0.365	0.218	0.342		0.405
3/23/2017								0.703	
7/11/2017	0.0067 (J)	0.0137 (J)	0.149			0.18			
7/12/2017				0.184	0.267		0.278	0.598	0.35
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158	0.197		0.195	0.277		0.37
10/19/2017					0.326			0.66	
2/20/2018	0.024 (J)	0.026 (J)	0.16						
2/21/2018				0.21	0.29	0.21	0.29	0.6	0.33
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	0.017 (J)	0.026 (J)	0.17						
7/12/2018				0.23	0.32	0.21		0.64	
8/15/2018									0.37
8/16/2018							0.33		
8/17/2018									
9/12/2018	0.012 (J)	0.02 (J)							
9/13/2018			0.16	0.22	0.31	0.21			0.37
9/14/2018							0.31	0.57	
10/4/2018									
10/24/2018									
3/26/2019	0.0082								
3/27/2019		0.023	0.18			0.21			0.41
3/28/2019				0.22	0.33		0.34	0.7	
9/10/2019			0.15						
10/1/2019	0.0064 (X)								
10/2/2019		0.021 (X)		0.17		0.19	0.28		
10/3/2019					0.24			0.52	0.35
3/24/2020	0.013 (J)								
3/25/2020		0.027 (J)	0.19				0.33		
3/26/2020				0.21	0.24	0.19		0.6	0.36
10/6/2020	0.015 (J)	0.026 (J)	0.16			0.19			
10/7/2020				0.19	0.2		0.3	0.52	0.39
3/3/2021	0.01 (J)	0.028 (J)	0.16					0.5	
3/4/2021				0.16	0.2	0.2	0.22		0.37
3/8/2021									
9/14/2021	<0.04								
9/15/2021		0.022 (J)	0.15	0.16		0.16			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
9/16/2021					0.18		0.22	0.46	0.31
1/25/2022	0.01 (J)								
1/26/2022		0.022 (J)	0.14	0.22		0.19			
1/27/2022					0.23		0.21	0.55	0.4
8/24/2022	0.011 (J)								
8/25/2022		0.032 (J)	0.17 (J)	0.21	0.2	0.24	0.19 (J)	0.58	0.39
2/14/2023	0.011 (J)	0.023 (J)	0.13						
2/15/2023				0.21	0.21	0.19		0.54	0.35
2/16/2023							0.15		
9/19/2023	0.024 (J)					0.19			
9/20/2023		0.027 (J)	0.15	0.18	0.19		0.1	0.62	0.41
9/21/2023									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.204				
10/5/2016		0.404			
10/10/2016		0.401			
10/18/2016			0.0174 (J)	0.0156 (J)	
12/6/2016			0.0133 (J)		
12/7/2016				0.0157 (J)	
12/8/2016	0.216	0.375			
3/21/2017			0.0103 (J)		
3/22/2017	0.247				
3/23/2017		0.396		0.0103 (J)	
7/11/2017	0.194		<0.04	<0.04	
7/12/2017		0.343			
10/17/2017			0.0116 (J)	0.0142 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.046 (J)	0.011 (J)	
2/21/2018	0.22	0.36			
4/12/2018					0.016 (J)
5/23/2018					0.018 (J)
6/13/2018					0.014 (J)
7/11/2018			0.014 (J)	0.014 (J)	0.017 (J)
7/12/2018	0.22	0.41			
8/15/2018					
8/16/2018					
8/17/2018					0.015 (J)
9/12/2018			0.0098 (J)		0.013 (J)
9/13/2018	0.2			0.013 (J)	
9/14/2018		0.38			
10/4/2018		0.39			0.016 (J)
10/24/2018					0.018 (J)
3/26/2019			0.0076		
3/27/2019	0.22			0.012	0.016
3/28/2019		0.39			
9/10/2019					
10/1/2019				0.011 (X)	
10/2/2019	0.21		0.0084 (X)		0.011 (X)
10/3/2019		0.36			
3/24/2020					0.015 (J)
3/25/2020	0.21		0.011 (J)	0.016 (J)	
3/26/2020		0.38			
10/6/2020			0.011 (J)	0.015 (J)	0.018 (J)
10/7/2020	0.18	0.35			
3/3/2021	0.2		0.0087 (J)	0.022 (J)	
3/4/2021		0.34			
3/8/2021					0.013 (J)
9/14/2021				0.012 (J)	0.011 (J)
9/15/2021	0.17		<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-31 (bg)	PZ-32 (bg)	PZ-2D (bg)
9/16/2021		0.31			
1/25/2022					0.013 (J)
1/26/2022	0.2		<0.04	0.01 (J)	
1/27/2022		0.36			
8/24/2022	0.19	0.32	<0.04	0.022 (J)	0.012 (J)
8/25/2022					
2/14/2023			<0.04	0.012 (J)	0.01 (J)
2/15/2023	0.17				
2/16/2023		0.31			
9/19/2023	0.18		0.022 (J)	0.011 (J)	0.011 (J)
9/20/2023					
9/21/2023		0.45			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							100	112	138
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							102	113	135
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	113	122	
3/23/2017									137
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		110	129	145
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	122	125	
10/19/2017				107					140
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	107	118	145
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	65.3 (o)	111	159						
7/12/2018				121	94.5	85.2			140
8/15/2018								123	
8/16/2018							113		
8/17/2018									
9/12/2018	46.6	99.3							
9/13/2018			136	116	90.8	80.2		123	
9/14/2018							108		124
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5		134	
3/28/2019				124	100		123		164
9/10/2019			137						
10/1/2019	46.8								
10/2/2019		103			101	89.1	115		
10/3/2019				127				139	125
3/24/2020	48								
3/25/2020		105	157				121		
3/26/2020				122	103	89.8		138	158
10/6/2020	50.5	111	144			84			
10/7/2020				109	93.5		112	129	144
3/3/2021	54.7	114	154						142
3/4/2021				122	107	90.9	113	138	
3/8/2021									
9/14/2021	51								
9/15/2021		106	147		94	91			
9/16/2021				109			102	135	137
1/25/2022	53.1								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		114	152		100	90.1			
1/27/2022				112			104	142	133
8/24/2022	45.8								
8/25/2022		108	145	107	96.7	92	99.5	141	156
2/14/2023	56.2	103	139						
2/15/2023				114	98.1	88.5		164 (M1)	144
2/16/2023							94.1		
9/19/2023	44.7					83.3			
9/20/2023		98.2	131	94.3	89.3		73.3	129	143
9/21/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	85.2				
10/18/2016		57.2	88.3		
12/6/2016			83.4		
12/7/2016		52.8			
12/8/2016	84.5			117	
3/21/2017			94		
3/22/2017	85.3				
3/23/2017		59.1		122	
7/11/2017	93	59.7	86		
7/12/2017				124	
10/17/2017		64.9	91.6		
10/18/2017	87.6				
10/19/2017				118	
2/20/2018		64.1	86.5		
2/21/2018	93.9			122	
4/12/2018					<25
5/23/2018					17.6 (J)
6/13/2018					14.3
7/11/2018		60.4	95.4		15.6
7/12/2018	87.1			129	
8/15/2018					
8/16/2018					
8/17/2018					27
9/12/2018			86		26.9
9/13/2018	85.8	58.7			
9/14/2018				123	
10/4/2018				126	25
10/24/2018					23.8
3/26/2019			87.3		
3/27/2019	95.2	54.6			26.1
3/28/2019				117	
9/10/2019					
10/1/2019		64.3			
10/2/2019	92.3		95.5		21
10/3/2019				110	
3/24/2020					26.5
3/25/2020	97.5	66.6	95.8		
3/26/2020				122	
10/6/2020		62.8	98.8		22.7
10/7/2020	84.2			94.7	
3/3/2021	96.8	64.8 (M1)	104		
3/4/2021				106	
3/8/2021					41.7
9/14/2021		67.8			13.4
9/15/2021	84.4		101		
9/16/2021				92	
1/25/2022					20.7

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	90.2	69.2	102		
1/27/2022				92.5	
8/24/2022	87.6	67.1	95.2	96.5	27.3
8/25/2022					
2/14/2023		69.3	99.9		30.2
2/15/2023	86.9				
2/16/2023				92.2 (M1)	
9/19/2023	80.3	64.6	86.9		13.7
9/20/2023					
9/21/2023				81.4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	3.1								
8/31/2016		4.9	5.1						
9/1/2016				7.4	7				
9/6/2016						7.9			
9/7/2016							6.9	6.8	7.7
9/8/2016									
10/18/2016									
12/6/2016	3.4								
12/7/2016		4.8	5.2	7.6	7	7.6			
12/8/2016							6.8	6.6	7.2
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.2	7.4	7.7	6.8		7.3
3/23/2017								6.6	
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				7.3	8		6.7	6.6	7.4
10/17/2017	3.3								
10/18/2017		5.1	5.1		7.8	8.2	6.8		7.6
10/19/2017				7.4				6.5	
2/20/2018	3.3	5.1	5.5						
2/21/2018				7.6	7.2	7.3	7.1	7.6	7.4
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.9	4.9	5.1						
7/12/2018				7.1	7.5	7.2		6.3	
8/15/2018							6.7		
8/16/2018									7.5
8/17/2018									
9/12/2018	2.8	4.8							
9/13/2018			5	6.6	6.8	7.3	6.7		
9/14/2018								6.1	7.7
10/4/2018									
10/24/2018									
3/26/2019	3.3								
3/27/2019		5.2	4.7			7.3	6.5		
3/28/2019				6.4	7.4			6.4	7.3
9/10/2019			3.8						
10/1/2019	3.6								
10/2/2019		5.4			8	7.7			7.9
10/3/2019				5.9			7	5.6	
3/24/2020	2.8								
3/25/2020		4.2	6.4						6.1
3/26/2020				4.8	7	7	5.7	5.4	
10/6/2020	3	4.4	7			6.4			
10/7/2020				3.9	6.6		5	4.5	5.7
3/3/2021	2.8	4.2	4.7					4	
3/4/2021				4	6.3	5.9	5.1		4.2
3/8/2021									
9/14/2021	2.9								
9/15/2021		3.9	2.8		5.8	5.6			
9/16/2021				3.3			4.7	3.5	4.2
1/25/2022	2.9								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
1/26/2022		4.4	3.6		6.3	6.1			
1/27/2022				3.8			4.9	3.7	3.8
8/24/2022	2.6								
8/25/2022		4.6	3.2	4.1	6.4	6.3	4.6	4.6	3.9
2/14/2023	3	4.5	3.8						
2/15/2023				4.3	6.2	6.2	4.5	4.1	
2/16/2023									3.1
9/19/2023	2.9					5.9			
9/20/2023		4.3	2.8	3.4	6.2		4.2	4.1	2.1
9/21/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	4				
10/18/2016		3.5	4.5		
12/6/2016			5		
12/7/2016		3.2			
12/8/2016	3.6			6.9	
3/21/2017			4.3		
3/22/2017	3.3				
3/23/2017		2.9		6.2	
7/11/2017	3	3.1	4.7		
7/12/2017				6	
10/17/2017		3	4.6		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		3	4.4		
2/21/2018	2.9			6.9	
4/12/2018					2.6
5/23/2018					2.5
6/13/2018					2.5
7/11/2018		2.8	4		2.6
7/12/2018	2.6			7.3	
8/15/2018					
8/16/2018					
8/17/2018					2.6
9/12/2018			3.7		2.3
9/13/2018	2.3	2.2			
9/14/2018				7.3	
10/4/2018				7	2.7
10/24/2018					2.8
3/26/2019			3.8		
3/27/2019	2.4	3.1			2.5
3/28/2019				4.8	
9/10/2019					
10/1/2019		3.1			
10/2/2019	2.6		4.3		2.7
10/3/2019				4.1	
3/24/2020					2.2
3/25/2020	1.6	2.2	3		
3/26/2020				2.9	
10/6/2020		2.3	3.4		2.3
10/7/2020	1.8			2	
3/3/2021	1.6	2.2	3.1		
3/4/2021				1.8	
3/8/2021					2.4
9/14/2021		2.2			2.5
9/15/2021	1.8		2.8		
9/16/2021				1.5	
1/25/2022					2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	1.7	2.4	3.2		
1/27/2022				1.8	
8/24/2022	1.8	2.7	3	1.8	2.1
8/25/2022					
2/14/2023		2.7	3.3		2.6
2/15/2023	1.8				
2/16/2023				2.3	
9/19/2023	1.6	2.6	3.4		2.3
9/20/2023					
9/21/2023				2.8	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
8/30/2016	0.06 (J)								
8/31/2016		0.13 (J)	0.13 (J)						
9/1/2016				0.06 (J)	<0.1				
9/6/2016						0.09 (J)			
9/7/2016							0.03 (J)	0.15 (J)	0.12 (J)
9/8/2016									
10/18/2016									
12/6/2016	0.06 (J)								
12/7/2016		0.07 (J)	0.13 (J)	0.09 (J)	0.15 (J)	0.09 (J)			
12/8/2016							0.18 (J)	0.12 (J)	0.18 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.11 (J)	0.09 (J)	0.04 (J)	0.09 (J)		0.08 (J)
3/23/2017								0.14 (J)	
7/11/2017	0.05 (J)	0.05 (J)	0.05 (J)			0.05 (J)			
7/12/2017				0.23 (J)	0.02 (J)		0.21 (J)	0.07 (J)	0.17 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1	0.19 (J)		0.04 (J)	0.24 (J)		0.06 (J)
10/19/2017					<0.1			<0.1	
2/20/2018	0.098 (J)	0.04 (J)	0.3 (J)						
2/21/2018				0.093 (J)	0.045 (J)	<0.1	0.24 (J)	0.37	0.086 (J)
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	<0.1	<0.1	0.077 (J)						
7/12/2018				<0.1	<0.1	<0.1		0.17 (J)	
8/15/2018									<0.1
8/16/2018							0.073 (J)		
8/17/2018									
9/12/2018	0.034 (J)	<0.1							
9/13/2018			<0.1	0.15 (J)	<0.1	<0.1			<0.1
9/14/2018							<0.1	<0.1	
10/4/2018									
10/24/2018									
3/26/2019	<0.1								
3/27/2019		<0.1	<0.1			<0.1			<0.1
3/28/2019				0.1	<0.1		0.15	0.074	
9/10/2019			<0.1						
10/1/2019	0.062 (X)								
10/2/2019		0.056 (X)		0.075 (X)		0.053 (X)	0.063 (X)		
10/3/2019					0.041 (X)			0.084 (X)	0.043 (X)
3/24/2020	<0.1								
3/25/2020		<0.1	0.066 (J)				<0.1		
3/26/2020				0.056 (J)	<0.1	<0.1		0.077 (J)	<0.1
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	<0.1	0.062 (J)	
8/27/2020									<0.1
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		<0.1	0.064 (J)	<0.1
3/3/2021	<0.1	<0.1	<0.1					0.058 (J)	
3/4/2021				<0.1	<0.1	<0.1	<0.1		<0.1
3/8/2021									
9/14/2021	<0.1								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
9/15/2021		<0.1	<0.1	<0.1		<0.1			
9/16/2021					<0.1		0.052 (J)	0.067 (J)	<0.1
1/25/2022	<0.1								
1/26/2022		<0.1	<0.1	<0.1		<0.1			
1/27/2022					<0.1		<0.1	0.056 (J)	<0.1
8/24/2022	0.08 (J)								
8/25/2022		0.051 (J)	0.074 (J)	0.074 (J)	0.056 (J)	0.058 (J)	0.078 (J)	0.086 (J)	0.052 (J)
2/14/2023	0.063 (J)	<0.1	0.084 (J)						
2/15/2023				0.064 (J)	0.05 (J)	0.053 (J)		0.086 (J)	<0.1
2/16/2023							0.077 (J)		
9/19/2023	0.06 (J)					<0.1			
9/20/2023		<0.1	0.062 (J)	0.064 (J)	<0.1		0.073 (J)	0.082 (J)	<0.1
9/21/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.25 (J)				
10/18/2016		0.16 (J)	0.11 (J)		
12/6/2016		0.15 (J)			
12/7/2016			0.07 (J)		
12/8/2016	0.22 (J)			0.21 (J)	
3/21/2017		0.02 (J)			
3/22/2017	0.16 (J)				
3/23/2017			<0.1	0.18 (J)	
7/11/2017	0.23 (J)	0.06 (J)	0.02 (J)		
7/12/2017				0.06 (J)	
10/17/2017		0.05 (J)	<0.1		
10/18/2017	0.28 (J)				
10/19/2017				<0.1	
2/20/2018		0.21 (J)	<0.1		
2/21/2018	0.29 (J)			0.039 (J)	
4/12/2018					<0.1
5/23/2018					0.063 (J)
6/13/2018					0.11 (J)
7/11/2018		0.087 (J)	<0.1		<0.1
7/12/2018	0.21 (J)			<0.1	
8/15/2018					
8/16/2018					
8/17/2018					<0.1
9/12/2018		0.049 (J)			0.093 (J)
9/13/2018	0.22 (J)		<0.1		
9/14/2018				<0.1	
10/4/2018				0.15 (J)	0.15 (J)
10/24/2018					0.29 (J)
3/26/2019		<0.1			
3/27/2019	0.37		<0.1		0.04
3/28/2019				<0.1	
9/10/2019					
10/1/2019			0.042 (X)		
10/2/2019	0.16 (X)	0.057 (X)			0.11 (X)
10/3/2019				0.06 (X)	
3/24/2020					0.051 (J)
3/25/2020	0.13 (J)	<0.1	<0.1		
3/26/2020				<0.1	
8/25/2020		<0.1	<0.1		
8/26/2020	0.14			<0.1	0.057 (J)
8/27/2020					
10/6/2020		<0.1	<0.1		0.073 (J)
10/7/2020	0.13			<0.1	
3/3/2021	0.12	<0.1	<0.1		
3/4/2021				<0.1	
3/8/2021					<0.1
9/14/2021			<0.1		0.089 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
9/15/2021	0.14	<0.1			
9/16/2021				<0.1	
1/25/2022					0.071 (J)
1/26/2022	0.11	<0.1	<0.1		
1/27/2022				<0.1	
8/24/2022	0.15	0.069 (J)	0.058 (J)	0.092 (J)	0.088 (J)
8/25/2022					
2/14/2023		0.059 (J)	<0.1		0.076 (J)
2/15/2023	0.16				
2/16/2023				0.082 (J)	
9/19/2023	0.14	0.053 (J)	<0.1		0.094 (J)
9/20/2023					
9/21/2023				0.074 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (SU) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.21	7.07				
9/6/2016						7.23			
9/7/2016							6.92	6.71	7.02
9/8/2016									
10/4/2016									
10/5/2016									
10/17/2016									
10/18/2016									
12/6/2016	7.57								
12/7/2016		6.85	6.64	7.13	6.85	7.3			
12/8/2016							6.9	6.61	6.95
3/21/2017	7.54	7.04	6.73						
3/22/2017				7.04	6.99	7.2	7		7.05
3/23/2017								6.69	
7/11/2017	7.43	6.88	6.66			7.31			
7/12/2017				7.09	6.83		6.95	6.69	7.06
10/17/2017	7.7								
10/18/2017		6.77	6.73	7.2		7.28		6.88	6.99
10/19/2017					6.91			6.85	
2/20/2018	7.57	7.32 (D)	7.11						
2/21/2018				7.11	6.97	7.1	6.89	6.66	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				7.07	6.85	7.14	7.01	6.84	7.06
8/15/2018							6.87		
8/16/2018									7.01
9/12/2018	7.41	6.87							
9/13/2018			6.56	7.01	6.88	7.08	6.86		
9/14/2018								6.76	6.83
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23	6.92		
3/28/2019				7.84	6.96			6.67	6.97
9/10/2019			6.78						
10/1/2019	7.5								
10/2/2019		6.96		7.22		7.22			6.99
10/3/2019					6.85		6.78	6.93	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.08	7.12	7.12	7.01	6.7	
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.08	7.01	7.18		6.68	6.98
8/27/2020							6.88		
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				7.11	6.98		6.91	6.78	7.04
3/3/2021	7.56	6.99	6.79					6.78	
3/4/2021				7.09	6.95	7.34	6.91		7.09
3/8/2021									
9/14/2021	7.45								
9/15/2021		6.94	6.72	7.09		7.12			
9/16/2021					6.96		6.85	6.77	7.03
1/25/2022	7.51								

Prediction Limit

Constituent: pH (SU) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-18	PZ-19	PZ-17
1/26/2022		7.05	6.83	7.33		7.26			
1/27/2022					7.03		6.92	6.8	7.03
8/24/2022	7.49								
8/25/2022		6.93	6.76	7.15	6.98	7.14	6.76	6.67	7.05
10/11/2022									
2/14/2023	7.43	7.04	6.75						
2/15/2023				7.09	6.92	7.1	6.73	6.66	
2/16/2023									7.14
9/19/2023	7.44					7.08			
9/20/2023		6.94	6.86	7.07	7.15		6.76	6.83	7.16
9/21/2023									

Prediction Limit

Constituent: pH (SU) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	7.1				
10/4/2016		6.88			
10/5/2016		6.91			
10/17/2016			7.43		
10/18/2016			7.45	7.15	
12/6/2016				7.04	
12/7/2016			7.29		
12/8/2016	6.98	6.86			
3/21/2017				7.01	
3/22/2017	7.16				
3/23/2017		6.9	7.26		
7/11/2017	7.15	7.82 (o)	7.31	6.96	
7/12/2017		6.81			
10/17/2017			7.29	7.31	7.61
10/18/2017	7.09				
10/19/2017		6.86			
2/20/2018			7.26		
2/21/2018	7.12	7.02			
7/11/2018			7.39	7.26	9.48
7/12/2018		6.82		7.01	
8/15/2018					
8/16/2018					
9/12/2018				7.02	9.07
9/13/2018	7.03		7.25		
9/14/2018		6.75			
3/26/2019				7	
3/27/2019	7.08		7.42		8.76
3/28/2019		6.96			
9/10/2019					
10/1/2019			7.43		
10/2/2019	7.2			7.09	8.97
10/3/2019		7.01			
3/24/2020					8.57
3/25/2020	7.01		7.23	7.15	
3/26/2020		7			
8/25/2020			7.53	7.14	
8/26/2020	7.09	6.99			7.97
8/27/2020					
10/6/2020			7.27	7.01	8.72
10/7/2020	6.95	7.04			
3/3/2021	7.04		7.41	7.14	
3/4/2021		7.22			
3/8/2021					7.77
9/14/2021			7.31		8.96
9/15/2021	7.05			6.99	
9/16/2021		7.1			
1/25/2022					8.4

Prediction Limit

Constituent: pH (SU) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
1/26/2022	7.28		7.44	7.1	
1/27/2022		7.18			
8/24/2022	7.1	7.1	7.34	7.04	8.01
8/25/2022					
10/11/2022	7.13		7.37		7.94
2/14/2023			7.36	7.09	7.97
2/15/2023	7.02				
2/16/2023		7.13			
9/19/2023	7.18		7.43	7.02	8.82
9/20/2023					
9/21/2023		7.05			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							96	87	99
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							94	84	94
3/21/2017	2.5	2	31						
3/22/2017				61	80	53	95		100
3/23/2017								90	
7/11/2017	2.6	2	37			52			
7/12/2017				53	78		96	93	100
10/17/2017	2.5								
10/18/2017		4.2	34		82	58	99		100
10/19/2017				55				92	
2/20/2018	2.3	2.4	34.7						
2/21/2018				52.1	72.2	48.2	91.8	84.5	98.8
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.5	3.8	35.4						
7/12/2018				53.9	80.5	48.8		84.9	
8/15/2018							101		
8/16/2018									111
8/17/2018									
9/12/2018	2	4.3							
9/13/2018			37.4	67.5	84.4	48.7	106		
9/14/2018								89.5	102
10/4/2018									
10/24/2018									
3/26/2019	2.7								
3/27/2019		8.2	41.9			46.5	111		
3/28/2019				59.6	90.3			83.5	94.7
9/10/2019			45.1						
10/1/2019	2.8								
10/2/2019		6.2			83	48.5			104
10/3/2019				59.6			95.8	84.9	
3/24/2020	3								
3/25/2020		11.9	47						92.4
3/26/2020				57.1	83.6	43.5	91	84.9	
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				48.9	80.7		87.3	83.3	89.1
3/3/2021	2.2	8.8	66					80.8	
3/4/2021				49.7	74.1	38.9	88.6		66.8
3/8/2021									
9/14/2021	2.6								
9/15/2021		11.4	46.8		73.4	37.8			
9/16/2021				41.8			86.9	72.7	70.9
1/25/2022	2.4								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
1/26/2022		9.1	37.8		77.2	38.9			
1/27/2022				46.7			89.9 (M1)	76.3	62.1
8/24/2022	2.2								
8/25/2022		10.7	45.6	47.3	75.5	38.7	96.3	84.4	62.7
2/14/2023	1.6	10	35.1						
2/15/2023				49.9	75.7 (M1)	38.1	96.6	78.8	
2/16/2023									54.2
9/19/2023	2.2					37.5			
9/20/2023		12.5	44.3	40.7	74.9		93.8	83.4	34.3
9/21/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	48				
10/18/2016		2.3	2.2		
12/6/2016			6.1		
12/7/2016		1.9			
12/8/2016	46			100	
3/21/2017			5.7		
3/22/2017	53				
3/23/2017		1.7		100	
7/11/2017	51	1.8	4.8		
7/12/2017				97	
10/17/2017		1.9	6.4		
10/18/2017	50				
10/19/2017				97	
2/20/2018		2.1	5.2		
2/21/2018	46.8			93.6	
4/12/2018					4.8 (J)
5/23/2018					4.5
6/13/2018					5.3
7/11/2018		2	3.6		5.4
7/12/2018	48.3			89.4	
8/15/2018					
8/16/2018					
8/17/2018					4.5
9/12/2018			2.7		4.4
9/13/2018	42	2.1			
9/14/2018				88.9	
10/4/2018				97.8	5.8
10/24/2018					6.2
3/26/2019			1.6		
3/27/2019	43.7	2.4			3.7
3/28/2019				76.7	
9/10/2019					
10/1/2019		2.2			
10/2/2019	43		1.6		4.1
10/3/2019				72.1	
3/24/2020					3.1
3/25/2020	39.1	1.9	1.5		
3/26/2020				66.6	
10/6/2020		1.9	0.98 (J)		3.1
10/7/2020	38.1			54.6	
3/3/2021	39.2	2	0.6 (J)		
3/4/2021				49.3	
3/8/2021					2.7
9/14/2021		1.8			3.8
9/15/2021	37.8		0.64 (J)		
9/16/2021				40.4	
1/25/2022					2.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	37.5	1.9	0.69 (J)		
1/27/2022				40	
8/24/2022	35.7	1.7	0.56 (J)	34.7	2
8/25/2022					
2/14/2023		2	0.89 (J)		2.6
2/15/2023	37.1				
2/16/2023				36	
9/19/2023	34.7	1.5	0.61 (J)		3.2
9/20/2023					
9/21/2023				34.8	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				373	284				
9/6/2016						257			
9/7/2016							415	508	392
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	433	242	248			
12/8/2016							441	556	431
3/21/2017	128	276	409						
3/22/2017				409	332	304	469		456
3/23/2017								482	
7/11/2017	138	263	414			265			
7/12/2017				374	308		432	497	445
10/17/2017	101								
10/18/2017		261	366		275	240	368		349
10/19/2017				318				448	
2/20/2018	138	295	429						
2/21/2018				367	312	285	409	500	411
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				423	337	285		523	
8/15/2018							422		
8/16/2018									415
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	394	336	291	438		
9/14/2018								486	403
10/4/2018									
10/24/2018									
3/26/2019	334								
3/27/2019		281	410			277	408		
3/28/2019				365	337			378	420
9/10/2019			420						
10/1/2019	146								
10/2/2019		312			355	284			415
10/3/2019				405			464	485	
3/24/2020	228								
3/25/2020		330	454						408
3/26/2020				332	330	286	415	440	
10/6/2020	153	241	462			261			
10/7/2020				334	336		425	492	392
3/3/2021	134	258	444					452	
3/4/2021				335	300	264	427		325
3/8/2021									
9/14/2021	150								
9/15/2021		292	422		326	270			
9/16/2021				307			419	450	330
1/25/2022	148								

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
1/26/2022		288	413		308	267			
1/27/2022				331			433	442	329
8/24/2022	139								
8/25/2022		259	437	325	319	90	446	528	321
10/11/2022									
2/14/2023	200	300	414						
2/15/2023				335 (D6)	329	334	477	529	
2/16/2023									299
9/19/2023	146					298			
9/20/2023		293	421	302	328		451	512	256
9/21/2023									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	293				
10/18/2016		152	264		
12/6/2016			299		
12/7/2016		214			
12/8/2016	309			503 (o)	
3/21/2017			260		
3/22/2017	299				
3/23/2017		165		430	
7/11/2017	301	162	244		
7/12/2017				438	
10/17/2017		140	218		
10/18/2017	256				
10/19/2017				393	
2/20/2018		163	264		
2/21/2018	297			435	
4/12/2018					69
5/23/2018					62
6/13/2018					93
7/11/2018		192	273		84
7/12/2018	310			447	
8/15/2018					
8/16/2018					
8/17/2018					115
9/12/2018			252		97
9/13/2018	307	192			
9/14/2018				447	
10/4/2018				450	103
10/24/2018					110
3/26/2019			253		
3/27/2019	287	167			87
3/28/2019				405	
9/10/2019					
10/1/2019		187			
10/2/2019	312		263		95
10/3/2019				414	
3/24/2020					123
3/25/2020	280	178	278		
3/26/2020				336	
10/6/2020		169	254		81
10/7/2020	280			337	
3/3/2021	267	166	264		
3/4/2021				283	
3/8/2021					126
9/14/2021		179			71
9/15/2021	272		256		
9/16/2021				296	
1/25/2022					68

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/6/2023 11:59 AM View: Interwell PL

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	276	182	262		
1/27/2022				274	
8/24/2022			261	265	
8/25/2022					
10/11/2022	267	173			75
2/14/2023		177	257		140
2/15/2023	264				
2/16/2023				293	
9/19/2023	311	217	265		86
9/20/2023					
9/21/2023				300	

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 11/7/2023, 11:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-17	-0.02217	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	-0.001058	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.02819	-107	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	4.466	98	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg)	1.991	70	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-32 (bg)	1.692	89	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.2032	-80	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.3	-100	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.2744	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.587	108	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.326	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-7.28	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-1.396	-80	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	3.367	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-2.366	-123	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.5126	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-0.7829	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-11.6	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-2.054	-82	-68	Yes	18	0	n/a	n/a	0.01	NP

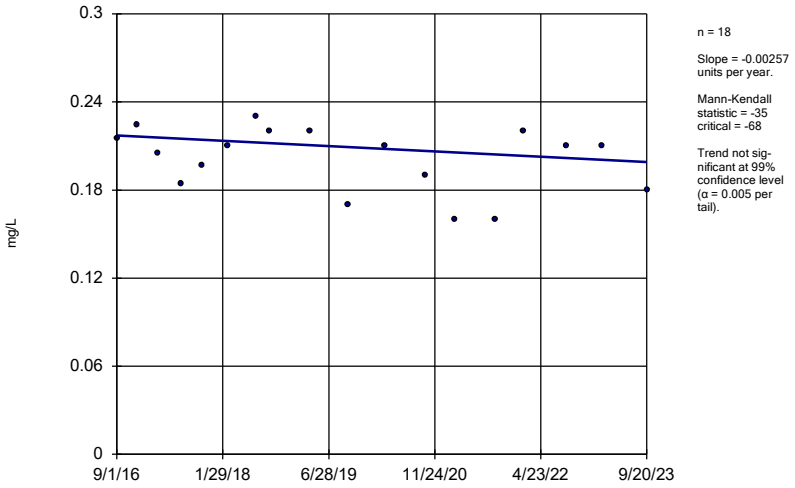
Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 11/7/2023, 11:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.00257	-35	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	2	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-17**	**-0.02217**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-18	0.004011	24	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01271	-41	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0005119	29	68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.003324	-45	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.005868	-68	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-2D (bg)**	**-0.001058**	**-72**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-31 (bg)	0.0002114	14	68	No	18	27.78	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0002542	-18	-68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.01088	-76	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-7D**	**-0.02819**	**-107**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.466**	**98**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.7565	19	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-1D (bg)	1.5	60	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	1.401	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	1.191	31	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**1.991**	**70**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.692**	**89**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2032**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.3**	**-100**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06457	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03794	-40	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2744**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1172	-66	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	PZ-14	0.009335	16	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.0239	-69	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.003509	10	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.01774	-52	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.01479	37	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1692	-28	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.002946	-13	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.007302	24	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.587**	**108**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.07935	1	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.326**	**-112**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.28**	**-90**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-18	-0.5562	-24	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.396**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	-0.02819	-19	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-23A**	**3.367**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.366**	**-123**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.5126**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.7829**	**-112**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.03079	-29	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.6**	**-137**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.054**	**-82**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-15	3.409	24	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	3.855	40	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-3.045	-9	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.045	30	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	3.891	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-25	-5.497	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	3.124	17	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.1792	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.808	42	68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

PZ-15



n = 18

Slope = -0.00257 units per year.

Mann-Kendall statistic = -35 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

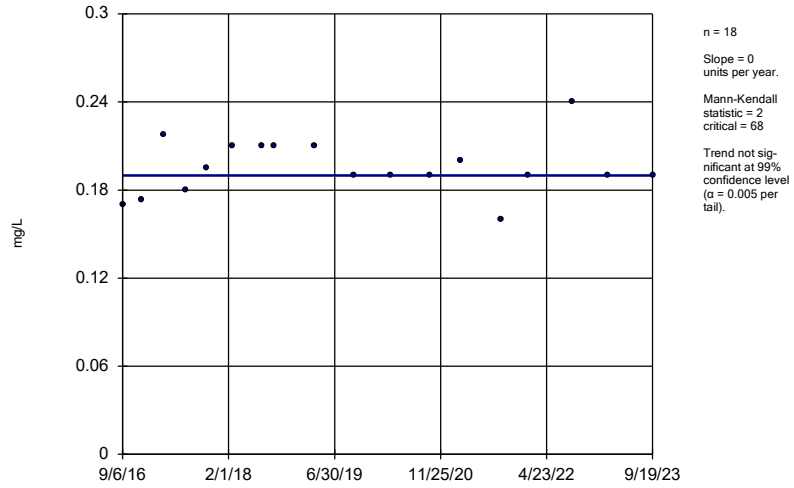
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-16



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

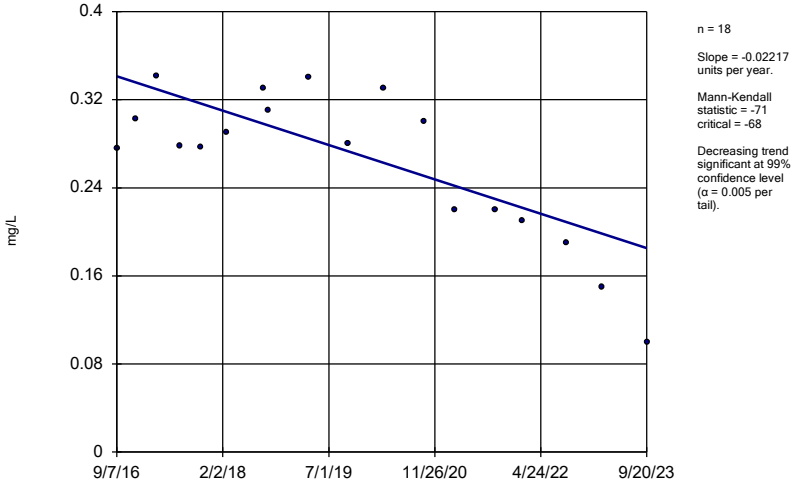
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-17



n = 18

Slope = -0.02217 units per year.

Mann-Kendall statistic = -71 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

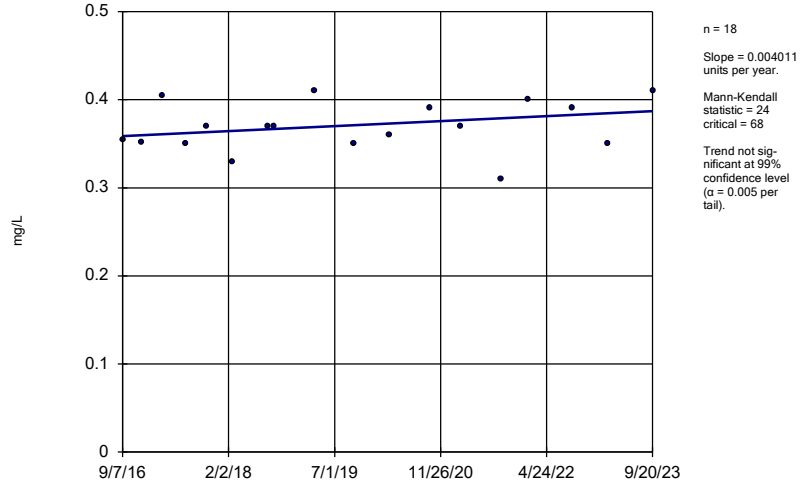
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 18

Slope = 0.004011 units per year.

Mann-Kendall statistic = 24 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

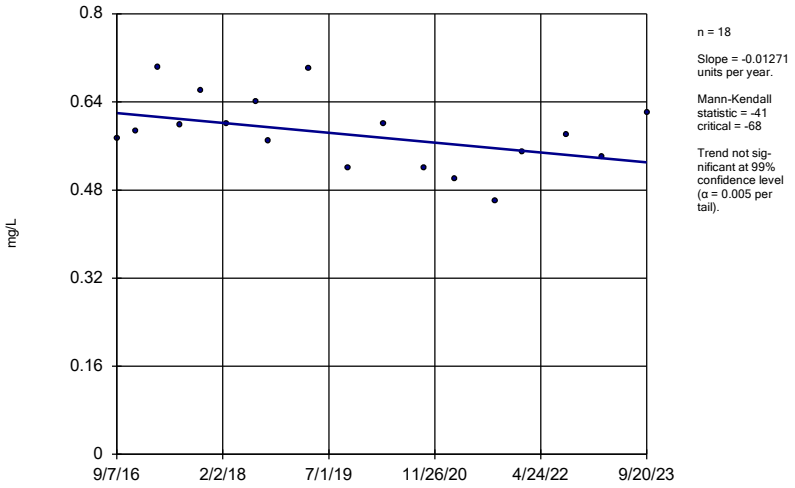
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 18

Slope = -0.01271 units per year.

Mann-Kendall statistic = -41
critical = -68

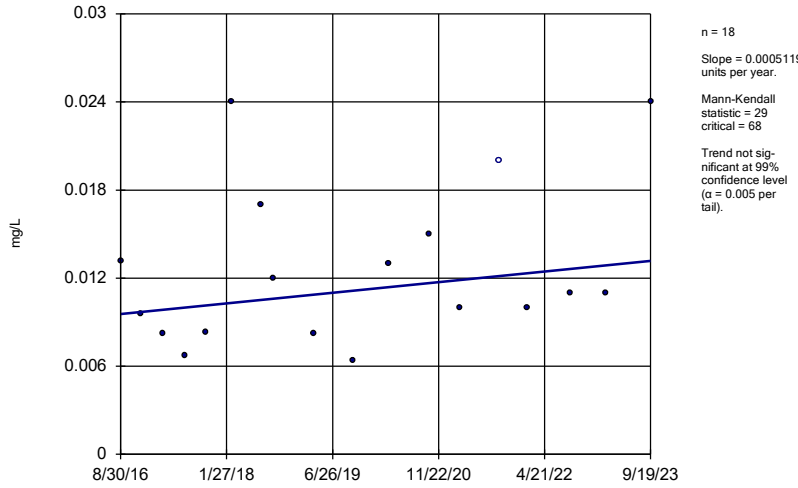
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-1D (bg)



n = 18

Slope = 0.0005119 units per year.

Mann-Kendall statistic = 29
critical = 68

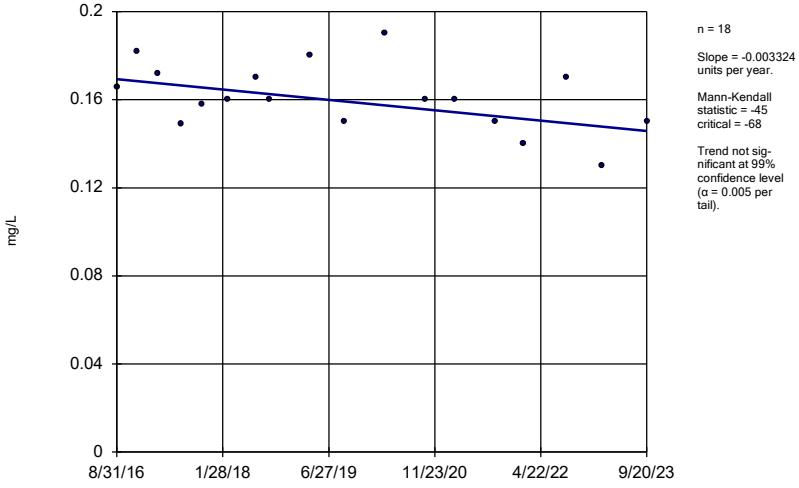
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



n = 18

Slope = -0.003324 units per year.

Mann-Kendall statistic = -45
critical = -68

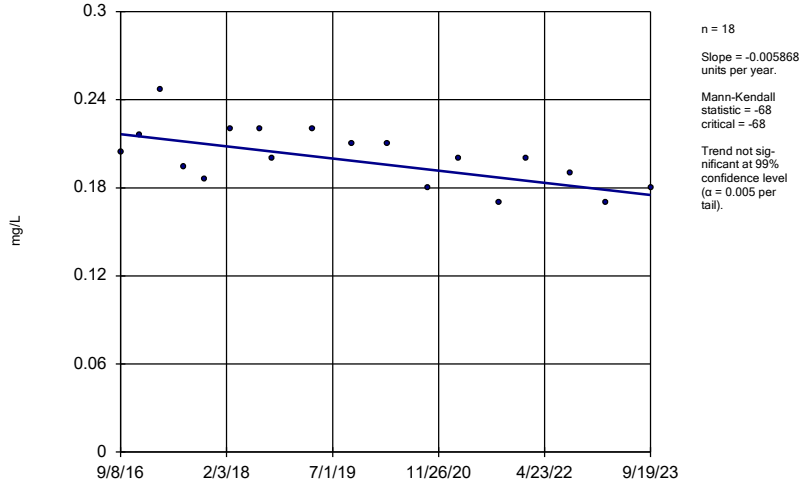
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-25



n = 18

Slope = -0.005868 units per year.

Mann-Kendall statistic = -68
critical = -68

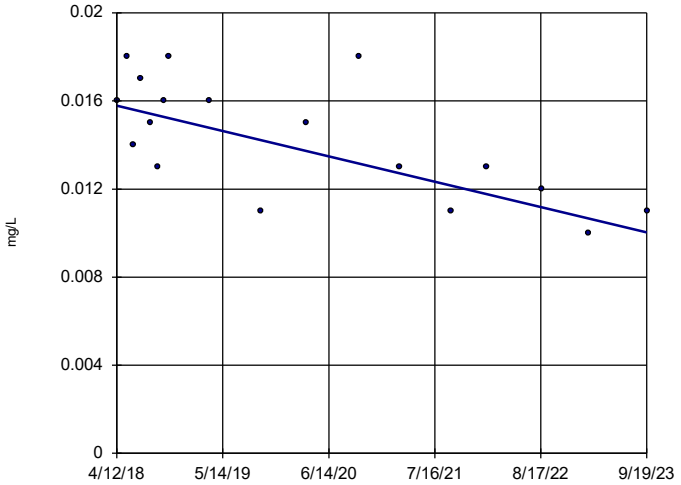
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 18

Slope = -0.001058 units per year.

Mann-Kendall statistic = -72
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

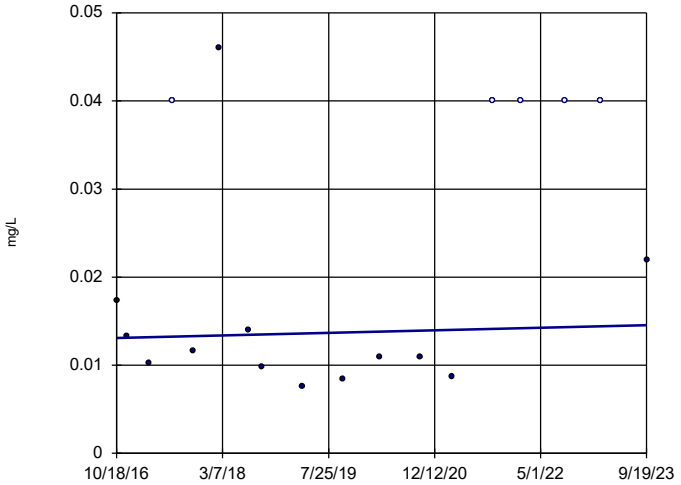
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-31 (bg)



n = 18

Slope = 0.0002114 units per year.

Mann-Kendall statistic = 14
critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

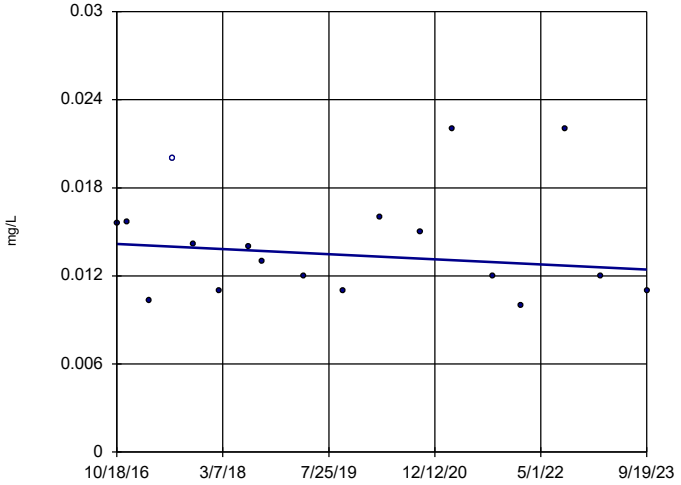
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-32 (bg)



n = 18

Slope = -0.0002542 units per year.

Mann-Kendall statistic = -18
critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

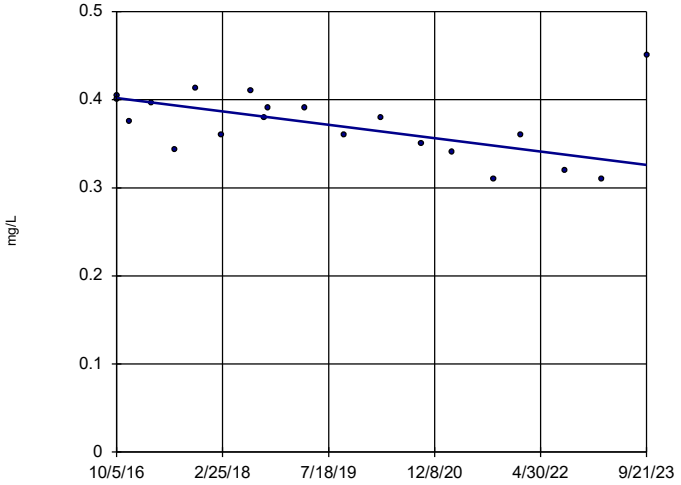
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-33



n = 20

Slope = -0.01088 units per year.

Mann-Kendall statistic = -76
critical = -81

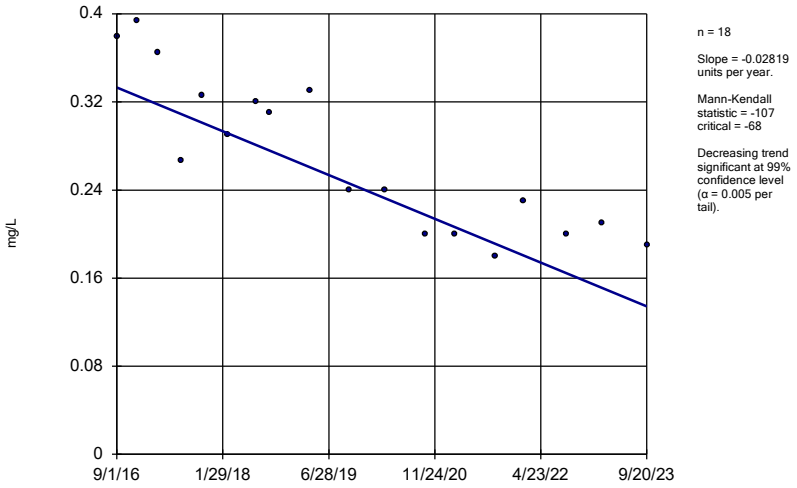
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-7D



n = 18

Slope = -0.02819 units per year.

Mann-Kendall statistic = -107 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

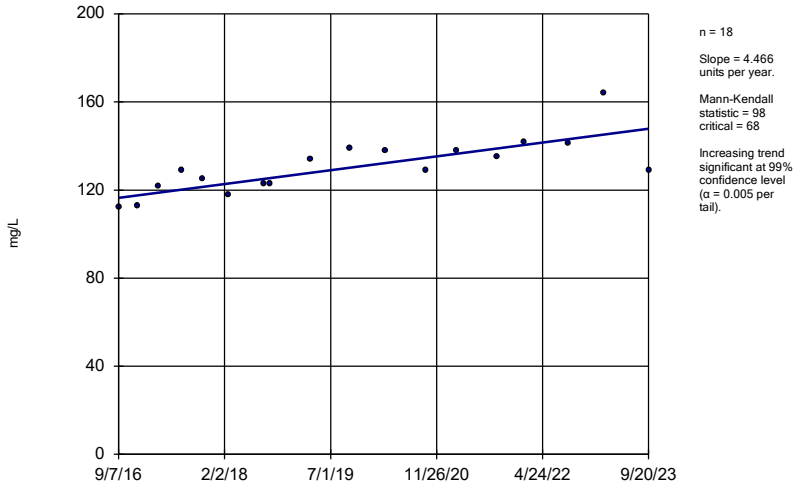
Constituent: Boron Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 18

Slope = 4.466 units per year.

Mann-Kendall statistic = 98 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

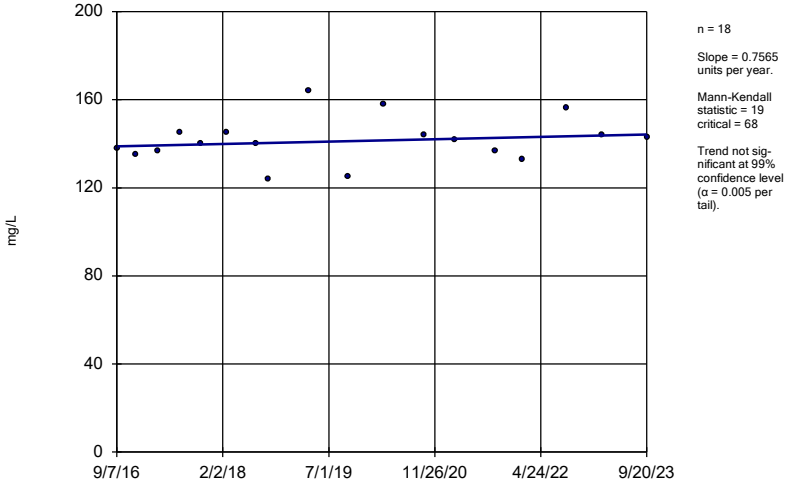
Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 18

Slope = 0.7565 units per year.

Mann-Kendall statistic = 19 critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

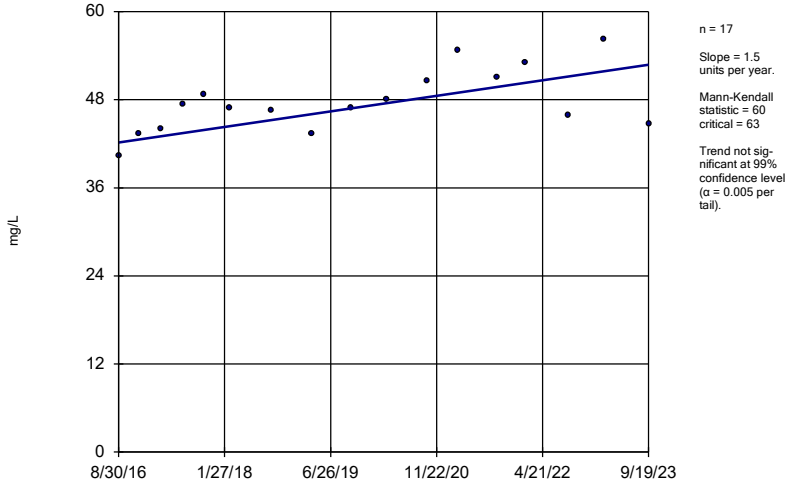
Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 17

Slope = 1.5 units per year.

Mann-Kendall statistic = 60 critical = 63

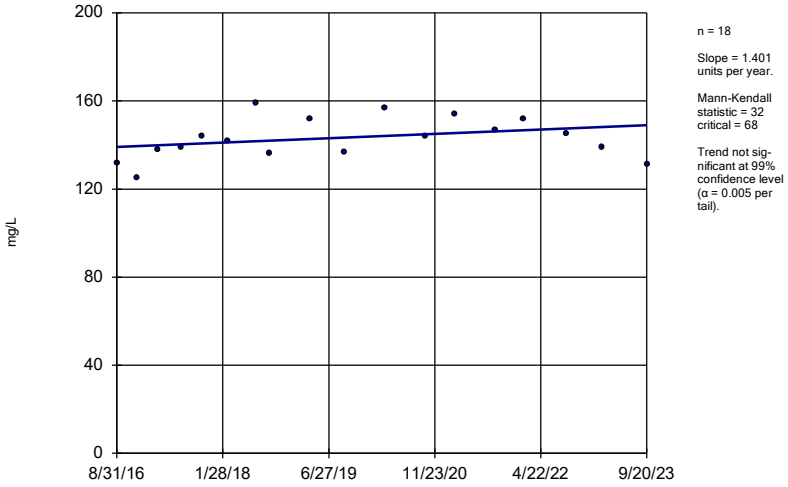
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-23A



n = 18

Slope = 1.401 units per year.

Mann-Kendall statistic = 32
critical = 68

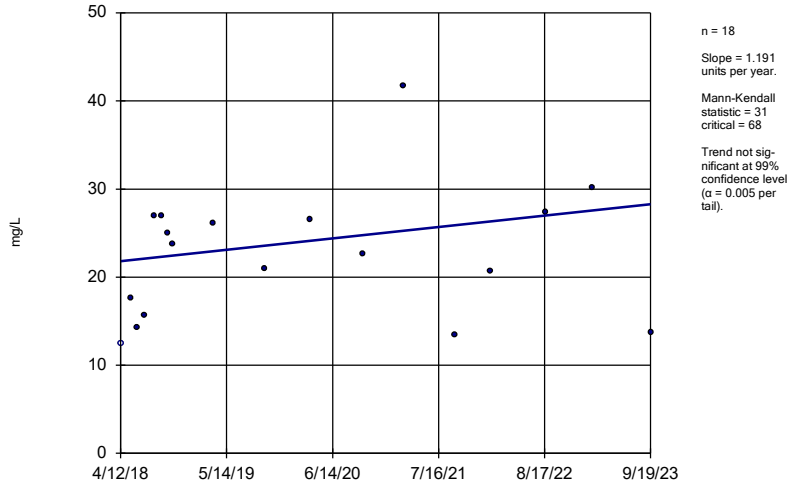
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-2D (bg)



n = 18

Slope = 1.191 units per year.

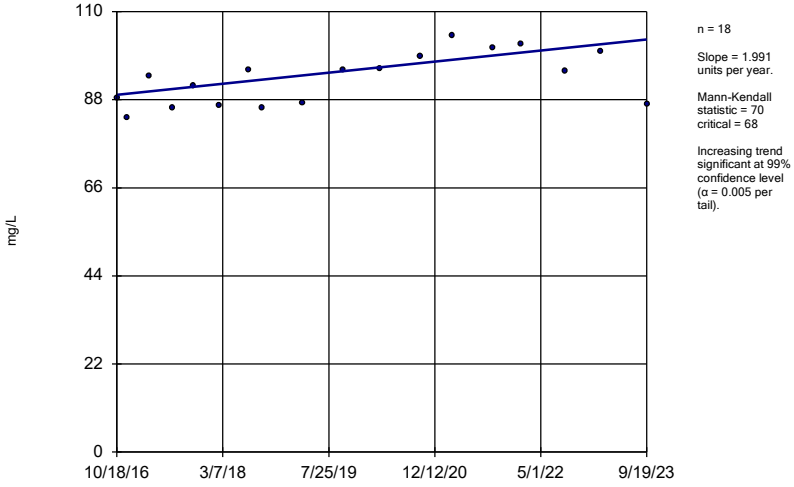
Mann-Kendall statistic = 31
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 18

Slope = 1.991 units per year.

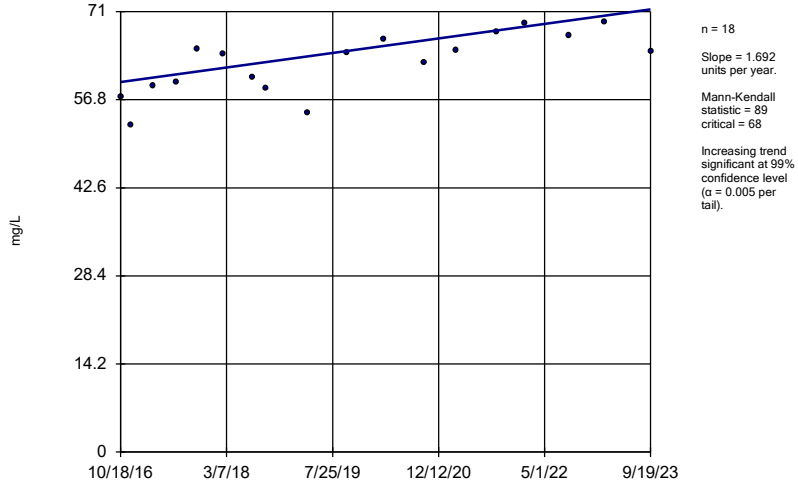
Mann-Kendall statistic = 70
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-32 (bg)



n = 18

Slope = 1.692 units per year.

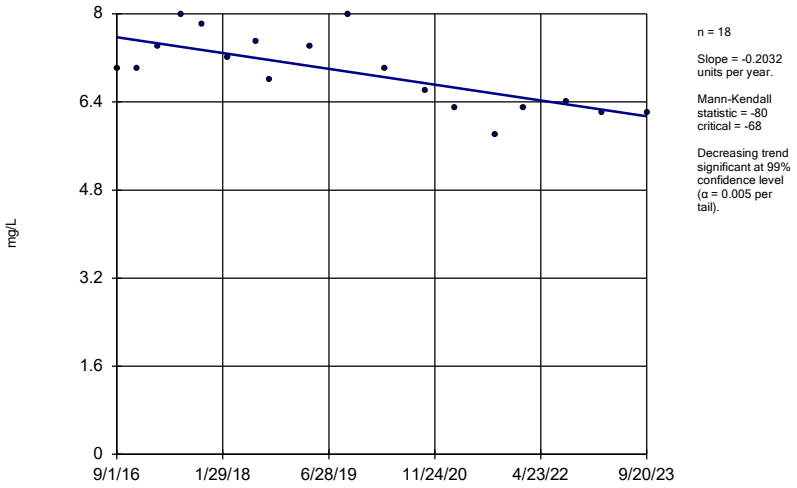
Mann-Kendall statistic = 89
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-15



n = 18

Slope = -0.2032 units per year.

Mann-Kendall statistic = -80 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

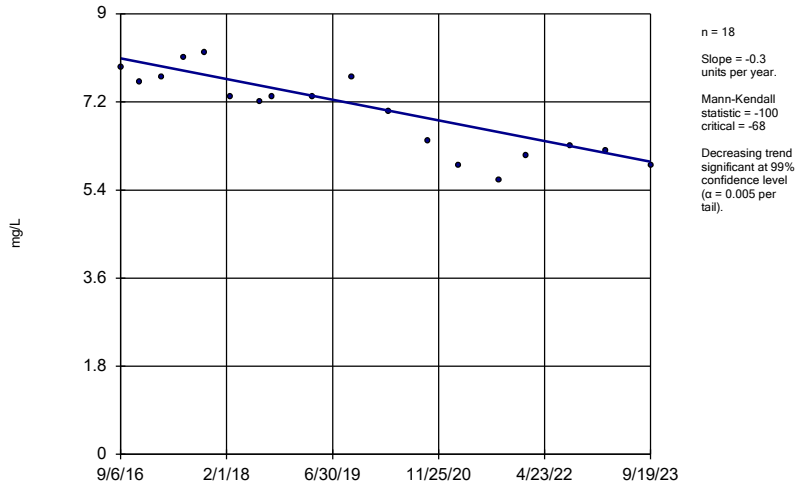
Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-16



n = 18

Slope = -0.3 units per year.

Mann-Kendall statistic = -100 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

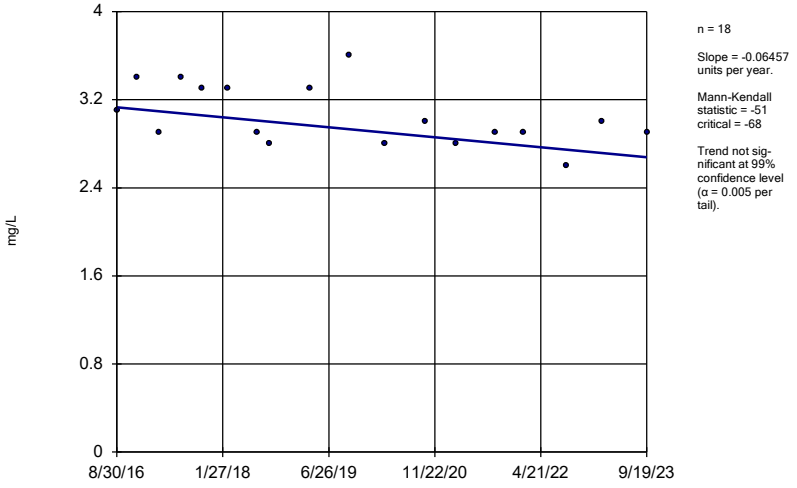
Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 18

Slope = -0.06457 units per year.

Mann-Kendall statistic = -51 critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

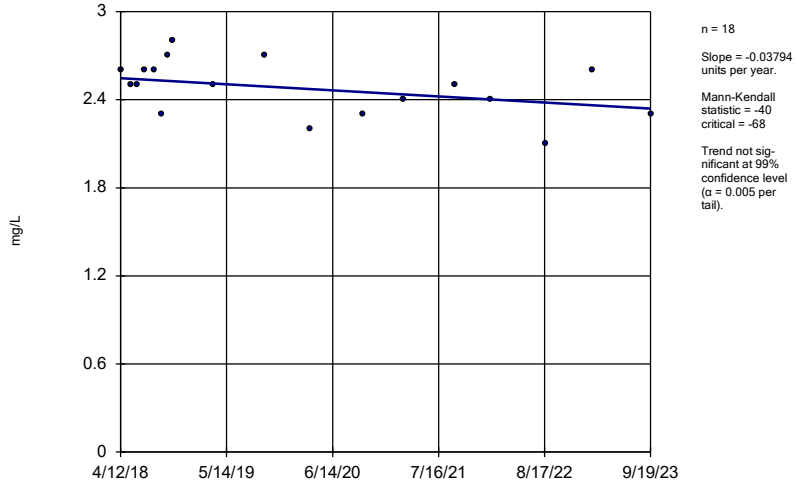
Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 18

Slope = -0.03794 units per year.

Mann-Kendall statistic = -40 critical = -68

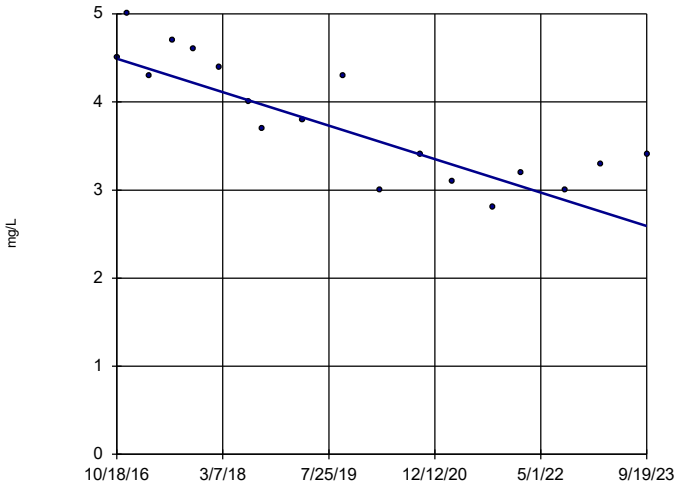
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 18

Slope = -0.2744 units per year.

Mann-Kendall statistic = -96 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

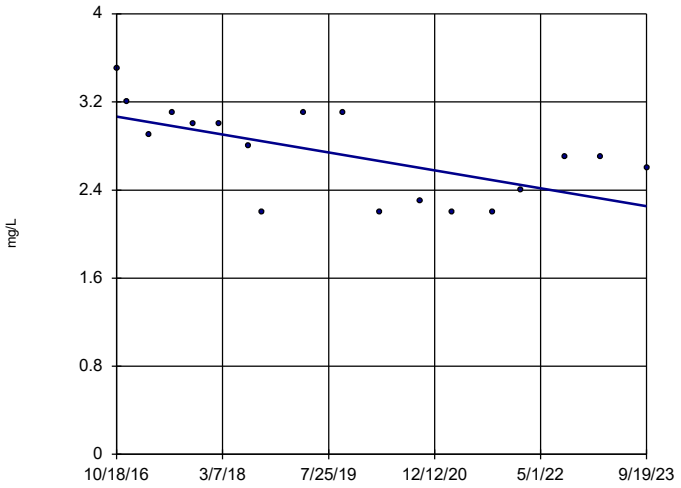
Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 18

Slope = -0.1172 units per year.

Mann-Kendall statistic = -66 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

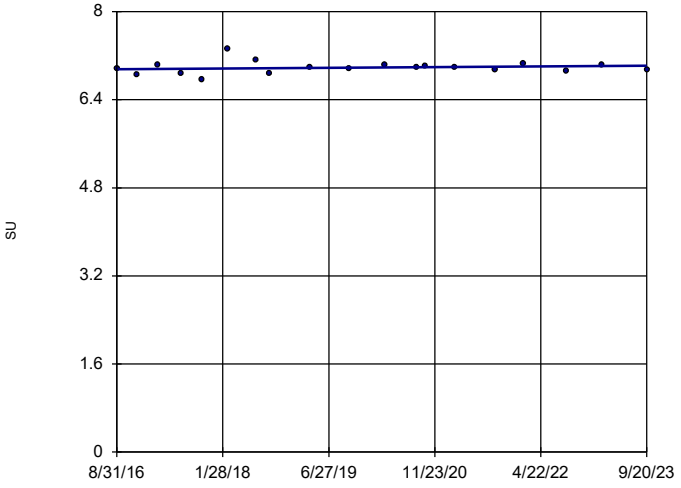
Constituent: Chloride Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-14



n = 19

Slope = 0.009335 units per year.

Mann-Kendall statistic = 16 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

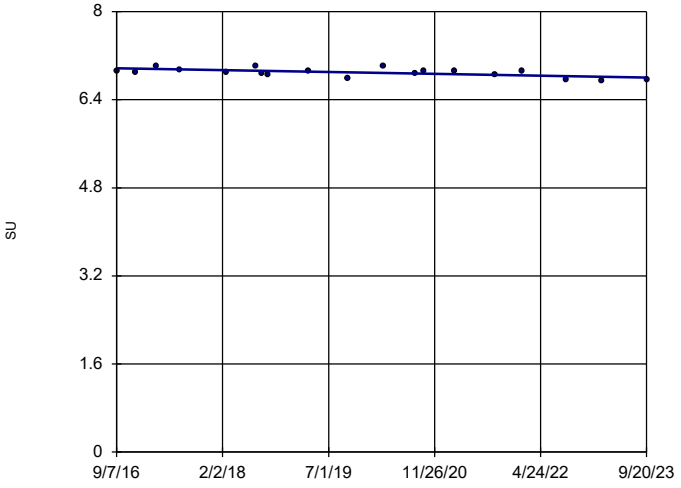
Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 19

Slope = -0.0239 units per year.

Mann-Kendall statistic = -69 critical = -74

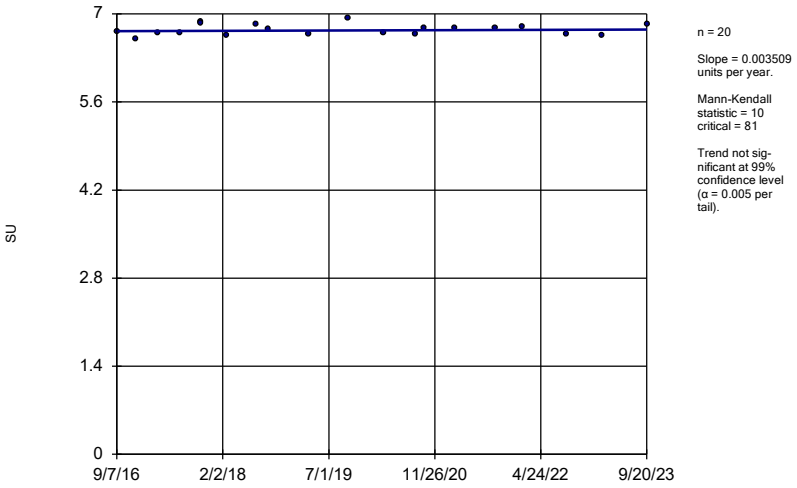
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-19



n = 20

Slope = 0.003509 units per year.

Mann-Kendall statistic = 10
critical = 81

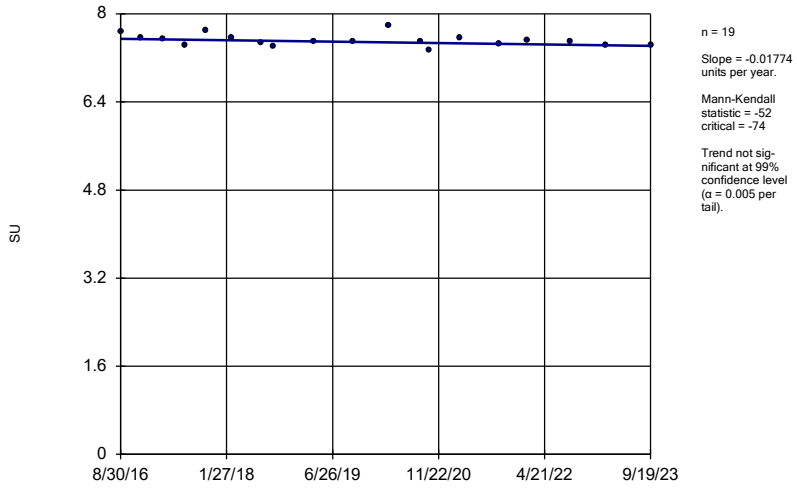
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 19

Slope = -0.01774 units per year.

Mann-Kendall statistic = -52
critical = -74

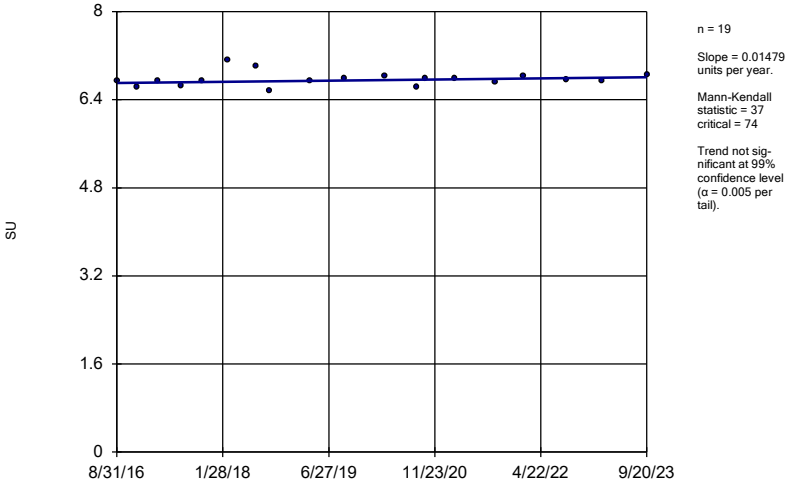
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



n = 19

Slope = 0.01479 units per year.

Mann-Kendall statistic = 37
critical = 74

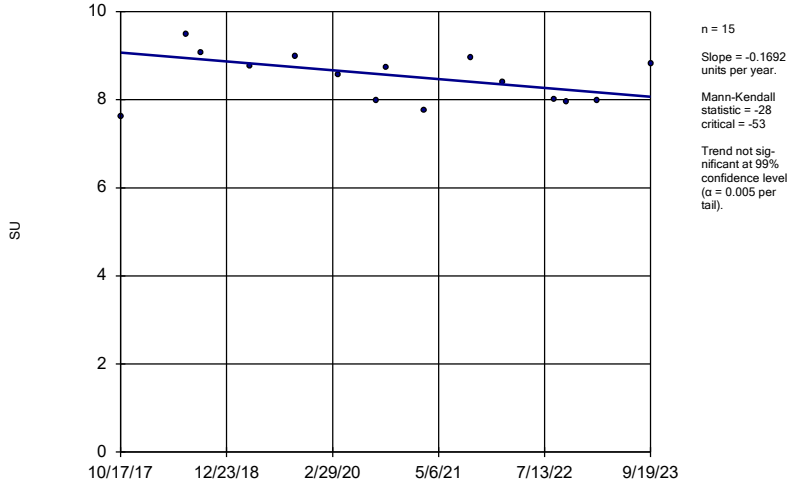
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 15

Slope = -0.1692 units per year.

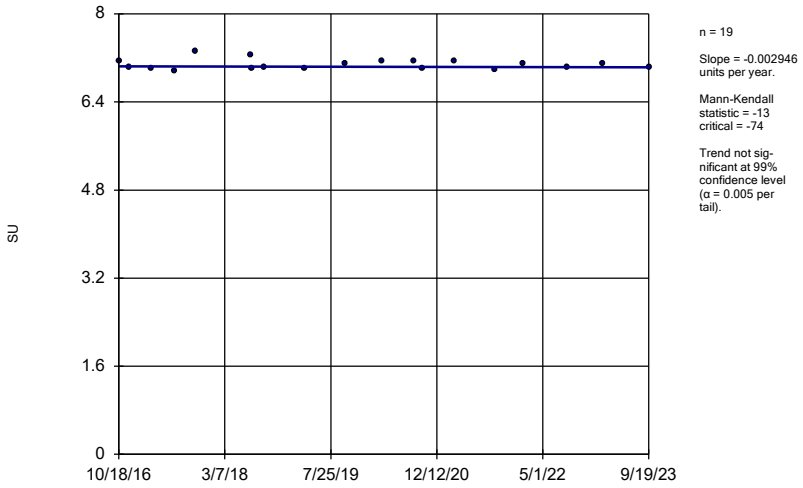
Mann-Kendall statistic = -28
critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = -0.002946 units per year.

Mann-Kendall statistic = -13
critical = -74

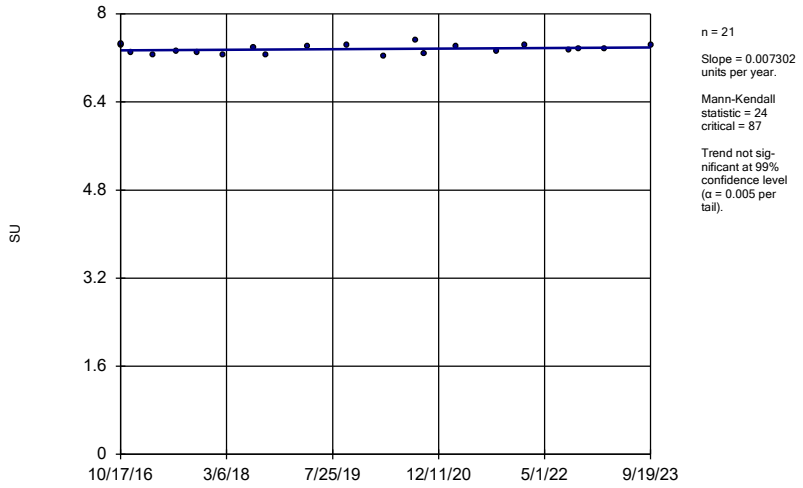
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 21

Slope = 0.007302 units per year.

Mann-Kendall statistic = 24
critical = 87

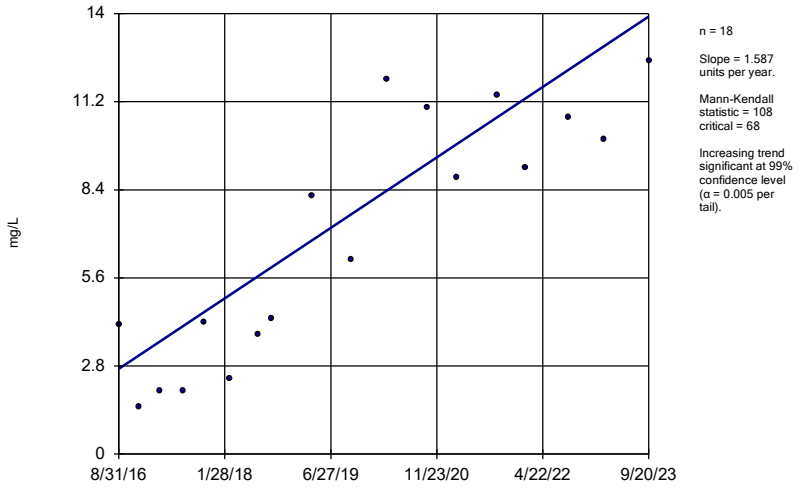
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-14



n = 18

Slope = 1.587 units per year.

Mann-Kendall statistic = 108
critical = 68

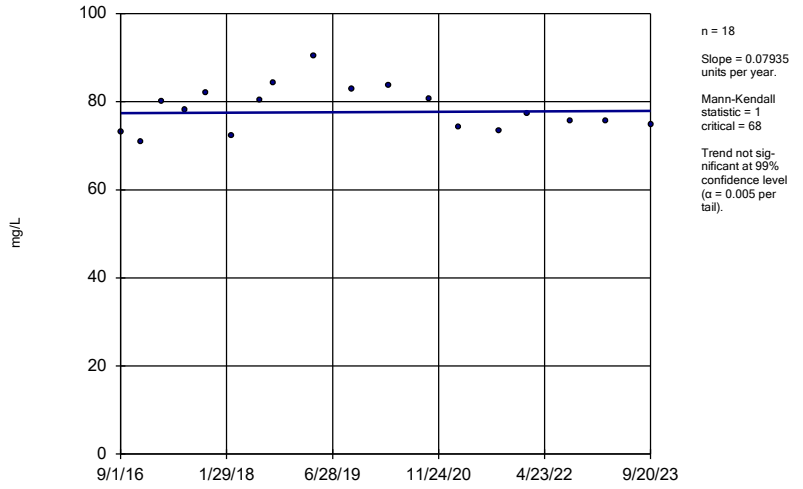
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-15



n = 18

Slope = 0.07935 units per year.

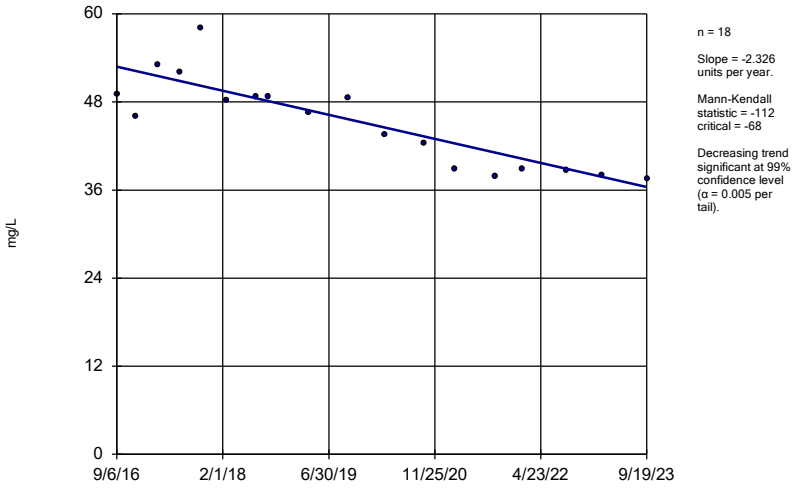
Mann-Kendall statistic = 1
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests
Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-16



n = 18

Slope = -2.326 units per year.

Mann-Kendall statistic = -112 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

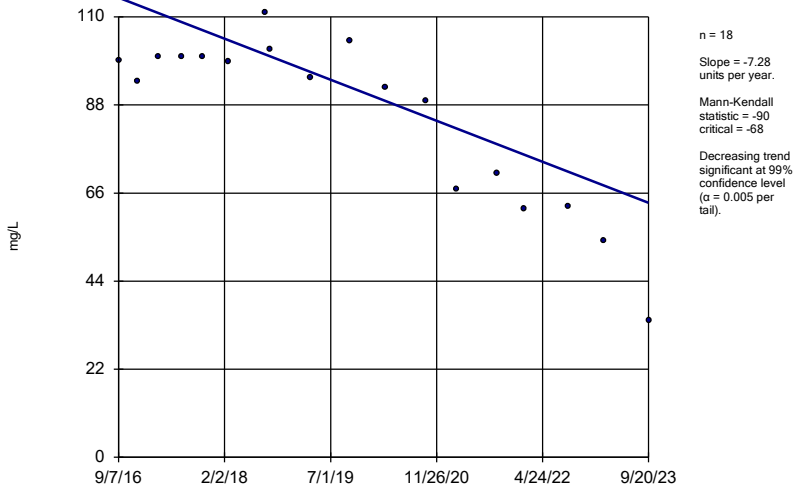
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-17



n = 18

Slope = -7.28 units per year.

Mann-Kendall statistic = -90 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

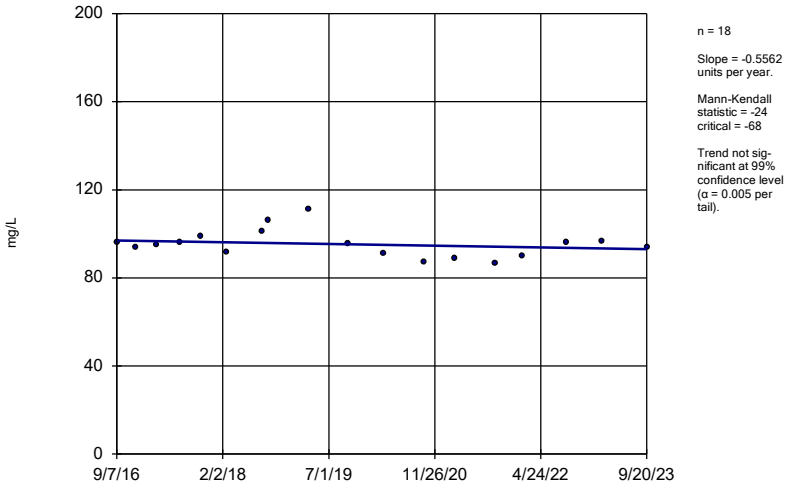
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 18

Slope = -0.5562 units per year.

Mann-Kendall statistic = -24 critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

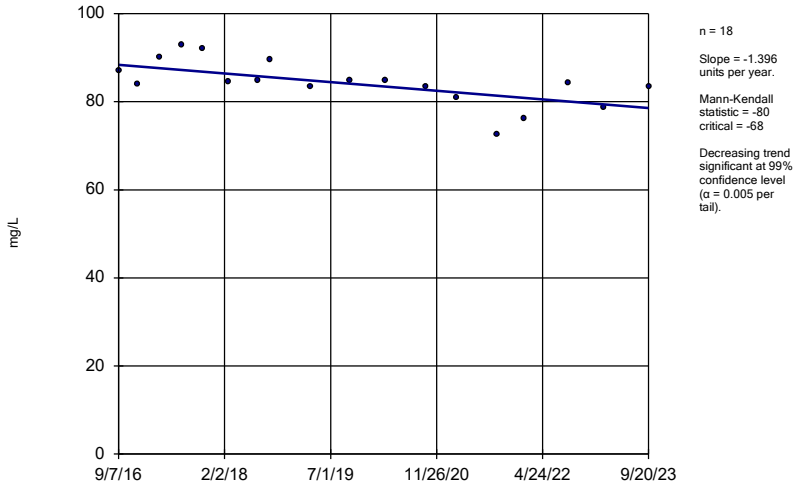
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 18

Slope = -1.396 units per year.

Mann-Kendall statistic = -80 critical = -68

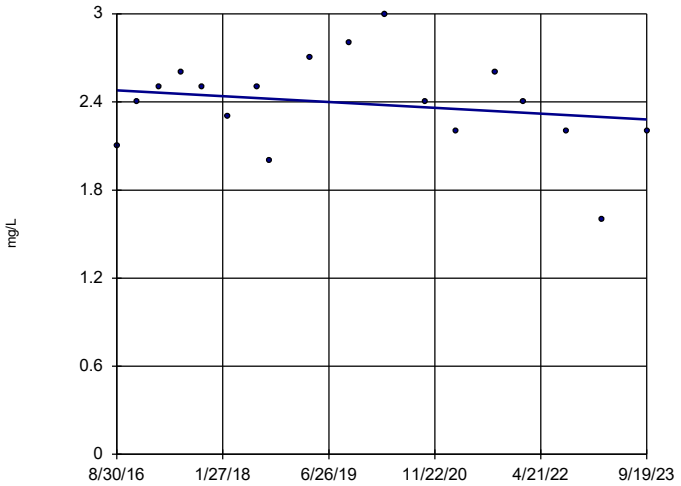
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-1D (bg)



n = 18

Slope = -0.02819 units per year.

Mann-Kendall statistic = -19
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

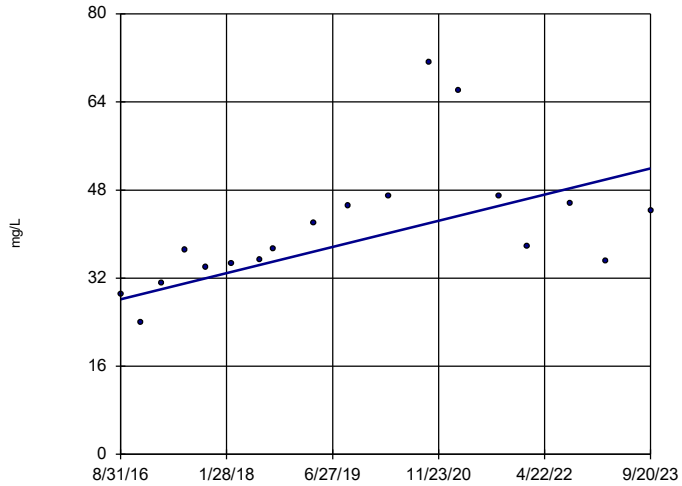
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-23A



n = 18

Slope = 3.367 units per year.

Mann-Kendall statistic = 83
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

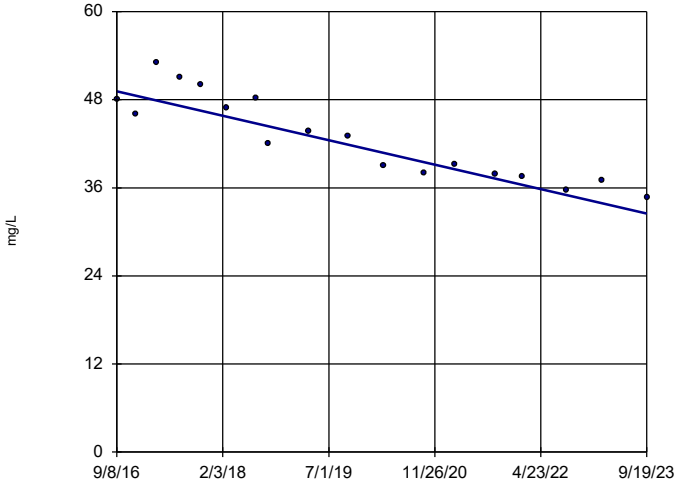
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-25



n = 18

Slope = -2.366 units per year.

Mann-Kendall statistic = -123
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

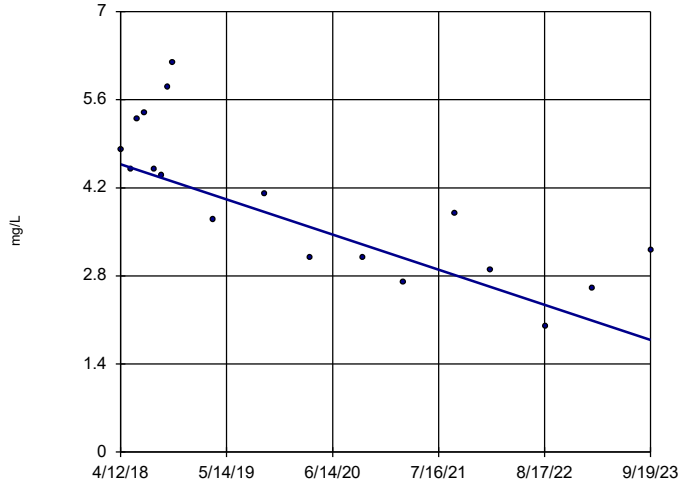
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 18

Slope = -0.5126 units per year.

Mann-Kendall statistic = -89
critical = -68

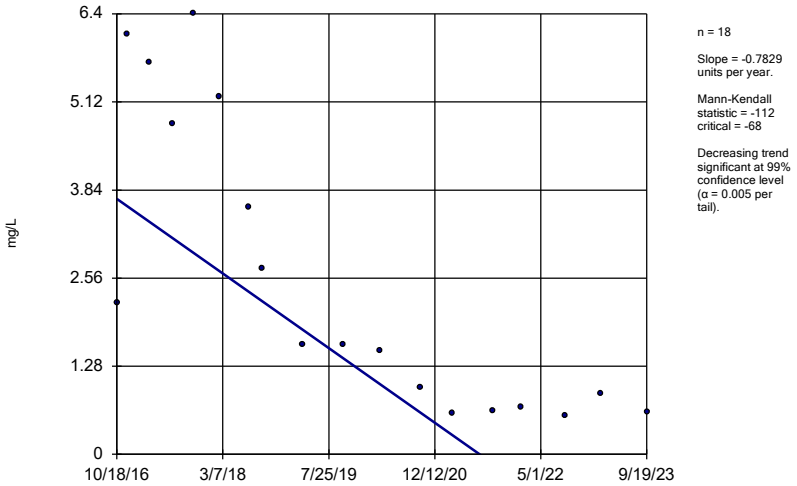
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-31 (bg)



n = 18

Slope = -0.7829 units per year.

Mann-Kendall statistic = -112 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

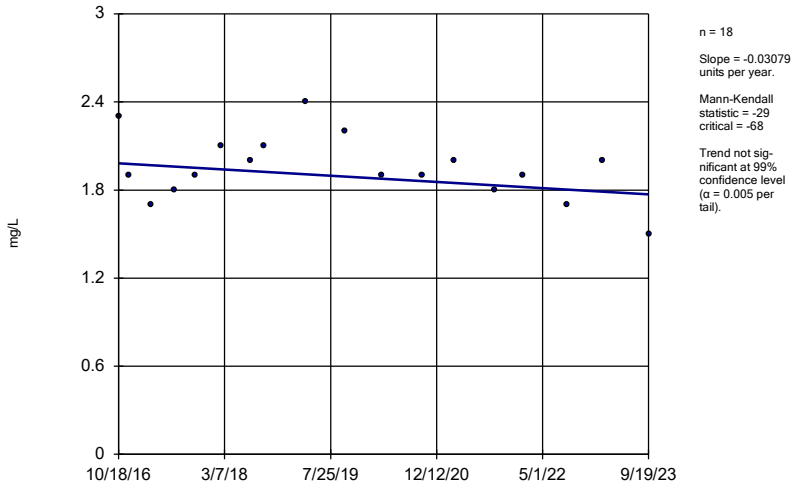
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-32 (bg)



n = 18

Slope = -0.03079 units per year.

Mann-Kendall statistic = -29 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

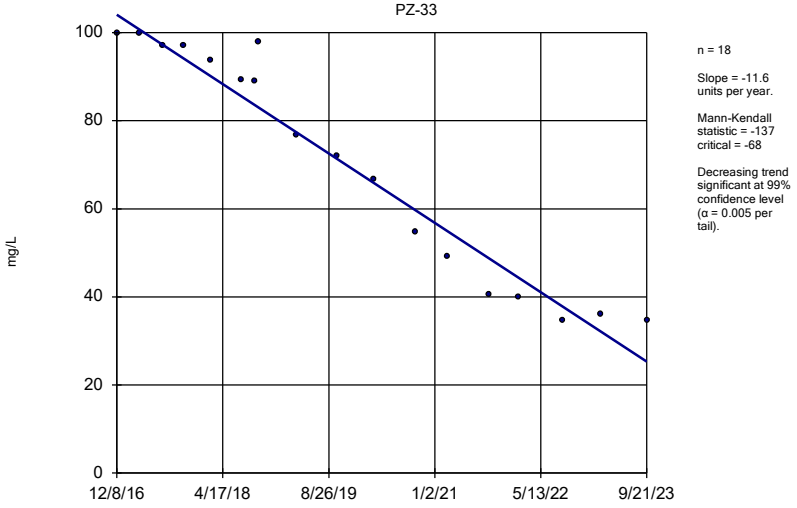
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-33



n = 18

Slope = -11.6 units per year.

Mann-Kendall statistic = -137 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

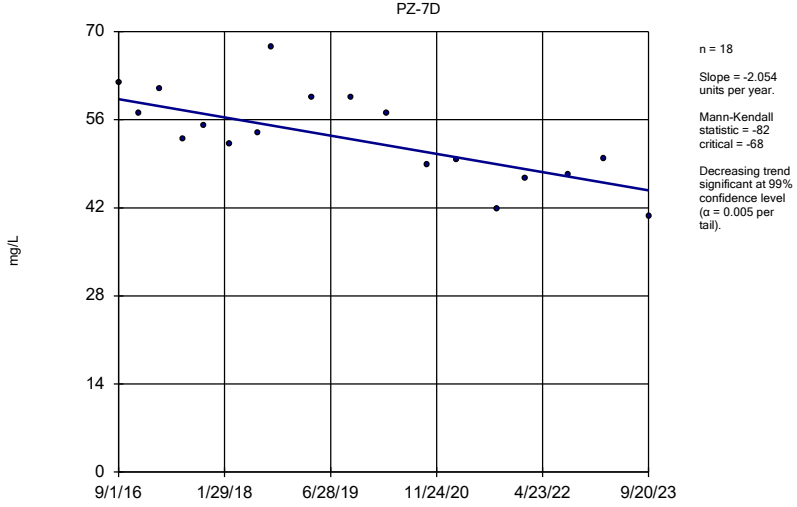
Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-7D



n = 18

Slope = -2.054 units per year.

Mann-Kendall statistic = -82 critical = -68

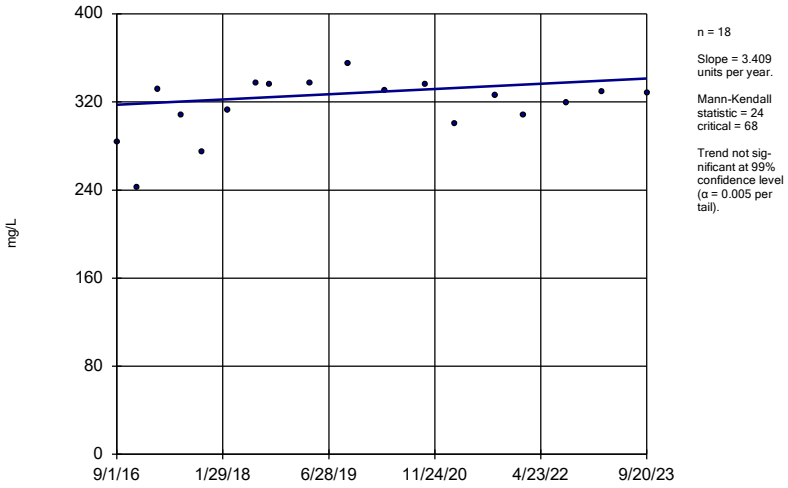
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-15



n = 18

Slope = 3.409 units per year.

Mann-Kendall statistic = 24 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

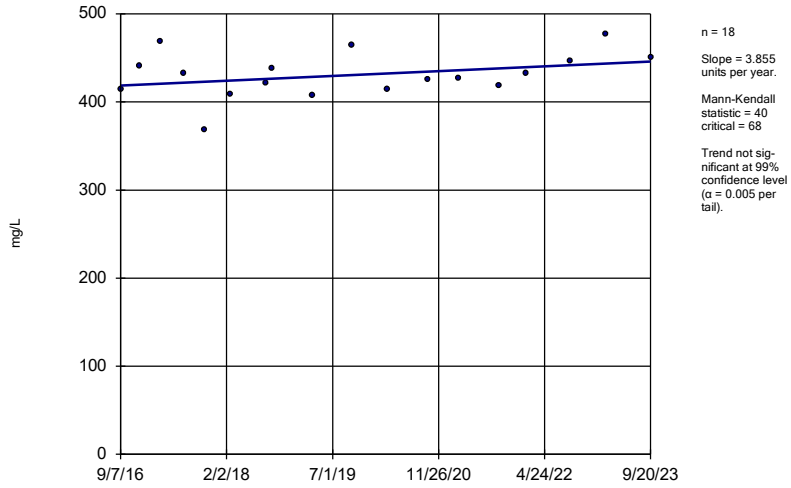
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-18



n = 18

Slope = 3.855 units per year.

Mann-Kendall statistic = 40 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

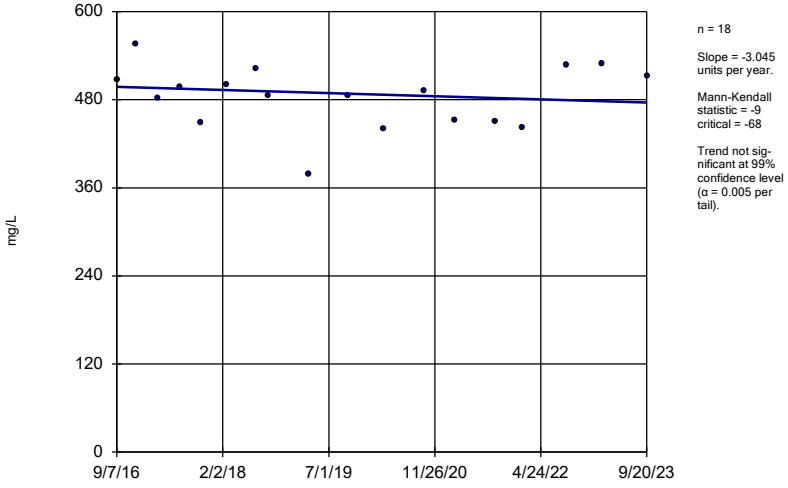
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-19



n = 18

Slope = -3.045 units per year.

Mann-Kendall statistic = -9 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

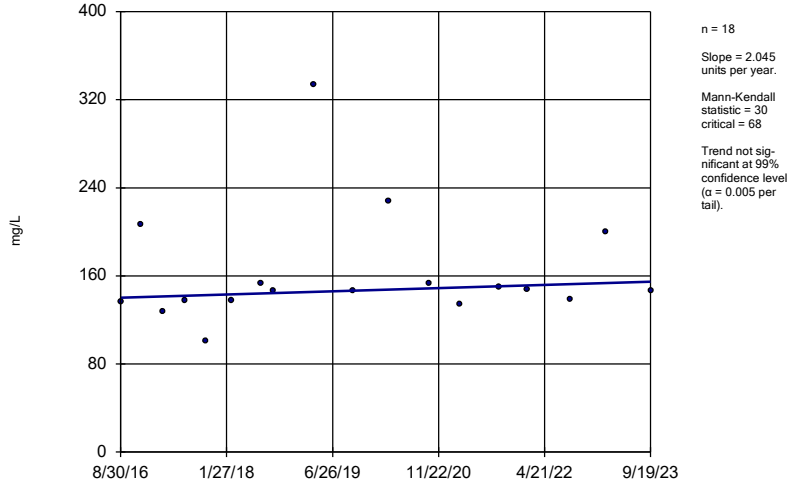
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-1D (bg)



n = 18

Slope = 2.045 units per year.

Mann-Kendall statistic = 30 critical = 68

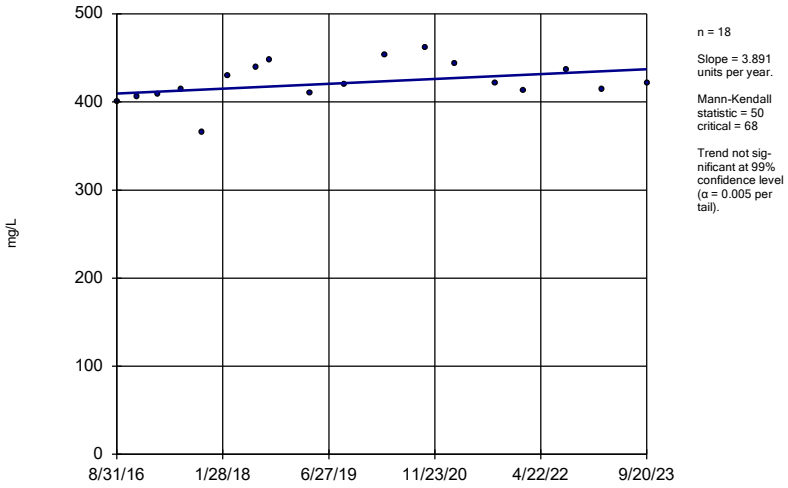
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-23A



n = 18

Slope = 3.891 units per year.

Mann-Kendall statistic = 50 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

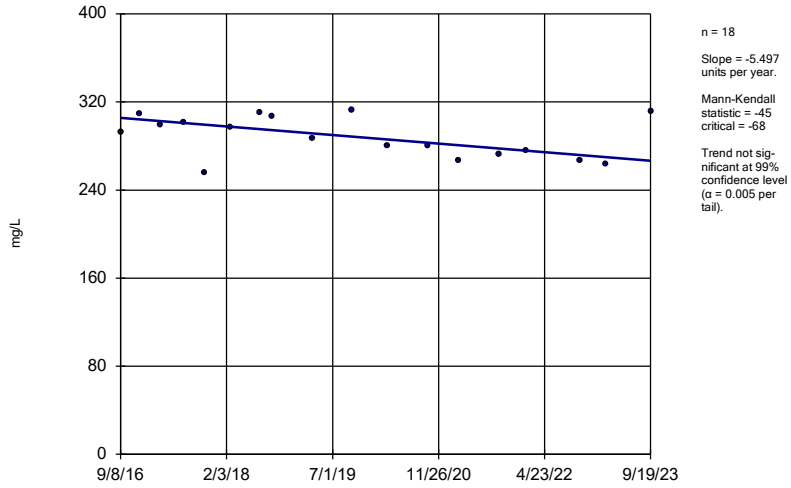
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-25



n = 18

Slope = -5.497 units per year.

Mann-Kendall statistic = -45 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

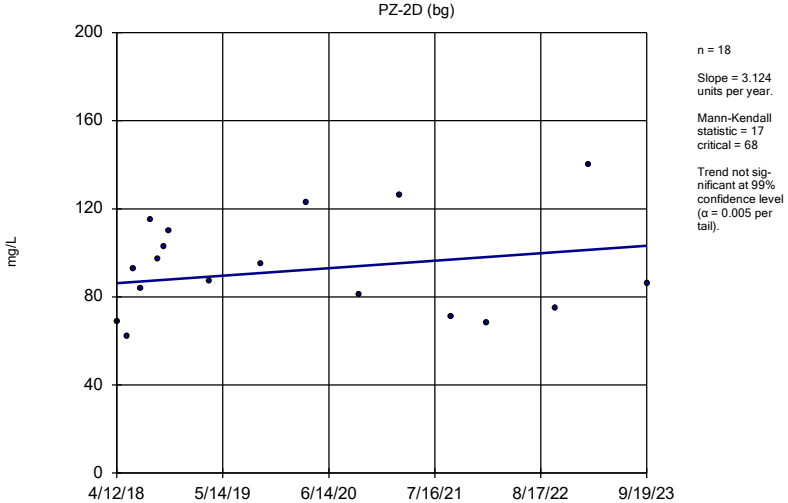
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-2D (bg)



n = 18

Slope = 3.124 units per year.

Mann-Kendall statistic = 17 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

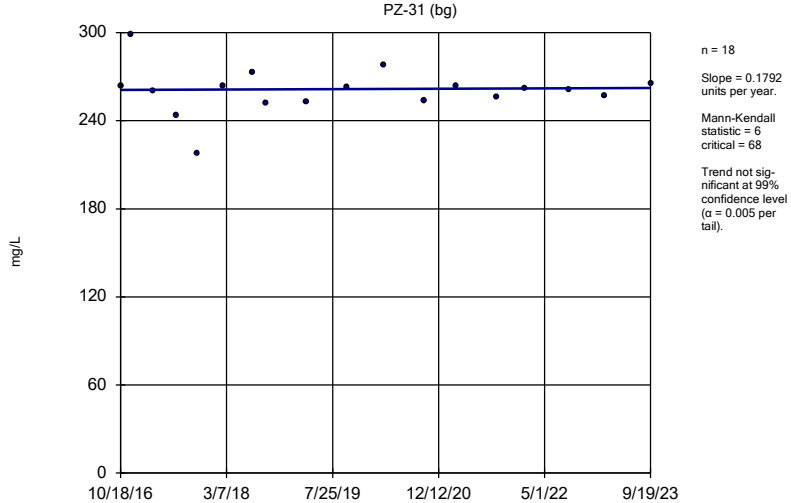
Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.10 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

PZ-31 (bg)



n = 18

Slope = 0.1792 units per year.

Mann-Kendall statistic = 6 critical = 68

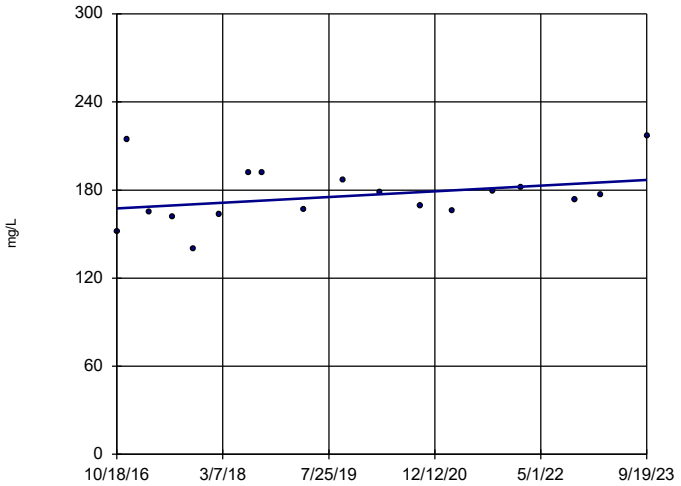
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-32 (bg)



n = 18

Slope = 2.808 units per year.

Mann-Kendall statistic = 42 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 11/7/2023 11:51 AM View: Trend Tests

Plant Mitchell Data: Mitchell Ash Pond CCR

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 11/6/2023, 12:09 PM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	n/a	n/a	72	56.94	n/a	n/a	0.02489	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	64	87.5	n/a	n/a	0.03752	NP Inter(NDs)
Barium (mg/L)	0.04563	n/a	n/a	n/a	72	1.389	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	56	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	n/a	56	100	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	n/a	n/a	72	25	n/a	n/a	0.02489	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	n/a	n/a	72	97.22	n/a	n/a	0.02489	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.61	n/a	n/a	n/a	70	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	n/a	n/a	76	44.74	n/a	n/a	0.02028	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	n/a	72	81.94	n/a	n/a	0.02489	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	72	79.17	n/a	n/a	0.02489	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	64	90.63	n/a	n/a	0.03752	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	n/a	n/a	72	76.39	n/a	n/a	0.02489	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	72	100	n/a	n/a	0.02489	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	72	90.28	n/a	n/a	0.02489	NP Inter(NDs)

FIGURE G.

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.046	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.61	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/14/2024, 10:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	18	0.002856	0.0006128	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	18	0.002757	0.0007112	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	18	0.002854	0.0006199	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	18	0.002617	0.0008849	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No	18	0.0029	0.0005325	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	18	0.002858	0.0006034	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	18	0.002782	0.000673	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	18	0.002733	0.0007816	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00042	0.006	No	18	0.002557	0.00102	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	16	0.004739	0.001042	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	16	0.004224	0.00167	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	16	0.004195	0.001731	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	16	0.004731	0.001075	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	16	0.00471	0.00116	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.001	0.01	No	16	0.004002	0.001798	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	16	0.004477	0.001428	87.5	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02871	0.01571	2	No	18	0.02333	0.01312	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0617	0.048	2	No	18	0.058	0.01462	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.046	0.034	2	No	18	0.04211	0.01266	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07771	0.06799	2	No	18	0.07285	0.008036	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.0273	0.023	2	No	18	0.02889	0.01253	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05789	0.05221	2	No	18	0.05505	0.004699	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04841	0.03649	2	No	18	0.04278	0.01032	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	18	0.105	0.006316	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.06779	0.04798	2	No	17	0.05788	0.01581	0	None	No	0.01	Param.
Barium (mg/L)	PZ-57	0.14	0.062	2	No	4	0.08225	0.03851	0	None	No	0.0625	NP (normality)
Barium (mg/L)	PZ-7D	0.009122	0.006648	2	No	18	0.008056	0.002266	0	None	ln(x)	0.01	Param.
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	14	0.0004571	0.0001089	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	14	0.0004714	0.0001069	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.01	0.0012	0.1	No	18	0.005675	0.004457	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No	18	0.003017	0.002049	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	18	0.004753	0.001047	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	18	0.004763	0.001006	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.0044	0.0015	0.1	No	18	0.003333	0.003158	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	18	0.004817	0.0007778	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-57	0.005	0.0013	0.1	No	4	0.004075	0.00185	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	PZ-7D	0.002053	0.0008136	0.1	No	18	0.004156	0.003837	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	18	0.004572	0.001279	88.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0005	0.006	No	18	0.003778	0.002035	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	18	0.00475	0.001061	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No	18	0.003534	0.002137	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	18	0.004783	0.0009192	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	18	0.004561	0.001278	88.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00067	0.006	No	18	0.003769	0.002045	72.22	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0017	0.001	0.006	No	18	0.001536	0.0009468	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0008	0.006	No	18	0.003768	0.001945	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-57	0.005	0.00051	0.006	No	4	0.002752	0.002227	25	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.881	0.317	5	No	18	0.6547	0.5407	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.01	0.7004	5	No	18	0.882	0.3149	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8244	0.4216	5	No	18	0.623	0.3329	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.114	0.5673	5	No	17	0.8408	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.12	0.479	5	No	16	0.7996	0.4927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.285	0.7336	5	No	18	1.009	0.4555	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.135	0.6664	5	No	18	0.9007	0.3873	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.158	0.7444	5	No	18	0.9513	0.3421	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9809	0.5706	5	No	18	0.7757	0.339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-57	1.13	0.193	5	No	4	0.553	0.4041	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6043	0.2543	5	No	18	0.4588	0.317	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.056	4	No	19	0.08984	0.02401	63.16	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results (No Significant)

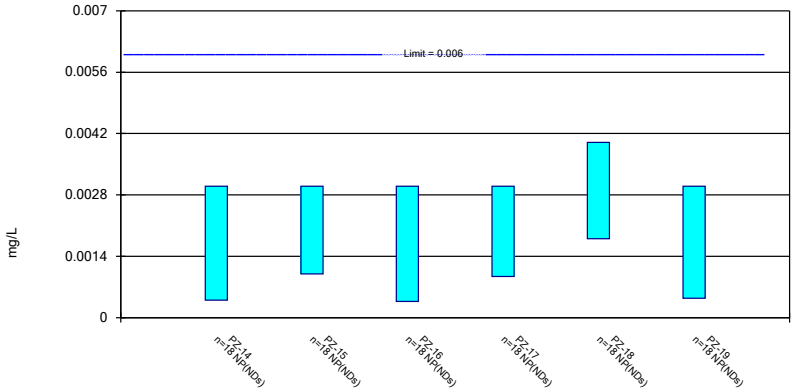
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 2/14/2024, 10:56 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.1079	0.0675	4	No	19	0.1029	0.0441	31.58	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	19	0.08284	0.02414	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1175	0.05745	4	No	19	0.1135	0.06142	31.58	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.08	4	No	19	0.09953	0.03287	57.89	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.15	0.064	4	No	19	0.1114	0.07282	10.53	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-23A	0.13	0.057	4	No	19	0.09642	0.05516	36.84	None	No	0.01	NP (normality)
Fluoride (mg/L)	PZ-25	0.2249	0.1481	4	No	19	0.19	0.07	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-33	0.15	0.074	4	No	19	0.1025	0.04005	52.63	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-57	0.09806	0.04744	4	No	4	0.07275	0.01115	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-7D	0.1	0.05	4	No	19	0.08695	0.03046	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	18	0.0009472	0.0002239	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	18	0.0009489	0.0002166	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	18	0.0009151	0.0002559	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	18	0.0009468	0.0002258	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	18	0.0008475	0.0003514	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	18	0.0008965	0.0003013	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	18	0.0285	0.006364	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.05	0.0012	0.04	No	18	0.01481	0.02246	27.78	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.0029	0.002	0.04	No	18	0.004739	0.007386	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.003	0.0025	0.04	No	18	0.0052	0.007209	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01432	0.01079	0.04	No	18	0.01256	0.00292	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	18	0.02033	0.01408	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006815	0.005641	0.04	No	18	0.006172	0.001049	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-57	0.002482	0.00002324	0.04	No	4	0.001253	0.0005414	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-7D	0.0037	0.0023	0.04	No	18	0.009694	0.02878	5.556	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	16	0.0001887	0.00003403	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	16	0.0001936	0.00002575	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	16	0.0001917	0.000033	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	16	0.0001929	0.0000285	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	16	0.0001911	0.00003575	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	16	0.0001841	0.00004469	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	16	0.0001912	0.00002802	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	16	0.0001908	0.00003675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	16	0.0001746	0.00005641	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	16	0.0001821	0.00004903	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	18	0.009472	0.002239	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	18	0.009467	0.002263	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0024	0.0019	0.1	No	18	0.002289	0.0007259	5.556	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	18	0.008983	0.00296	88.89	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	18	0.0095	0.002121	94.44	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-57	0.01	0.00085	0.1	No	4	0.007712	0.004575	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	18	0.004594	0.001181	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	18	0.004822	0.0007542	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0024	0.05	No	18	0.0057	0.003618	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.01	0.0023	0.05	No	18	0.005267	0.003904	38.89	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	18	0.003722	0.001649	61.11	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	18	0.0009478	0.0002216	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	18	0.0007339	0.0003881	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	18	0.0007224	0.0004052	66.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00024	0.002	No	18	0.0006072	0.0003671	44.44	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	18	0.0008423	0.0003629	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006566	0.0004811	0.002	No	18	0.0005689	0.000145	5.556	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00017	0.002	No	18	0.0005956	0.0004182	50	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	18	0.0006778	0.0003123	44.44	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	18	0.0007572	0.0004032	72.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0001	0.002	No	18	0.0007535	0.0004097	72.22	None	No	0.01	NP (NDs)

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

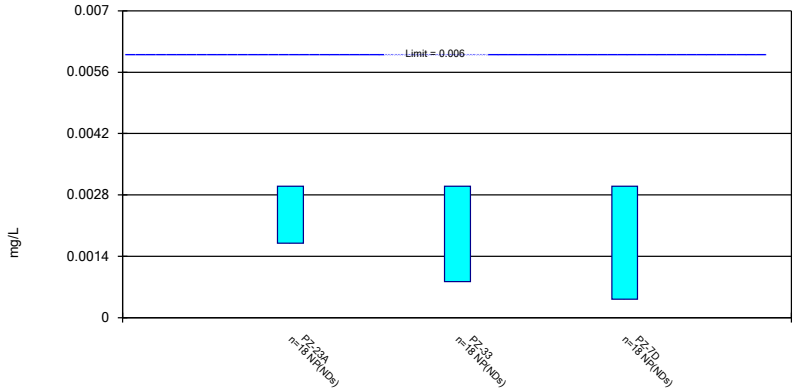


Constituent: Antimony Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

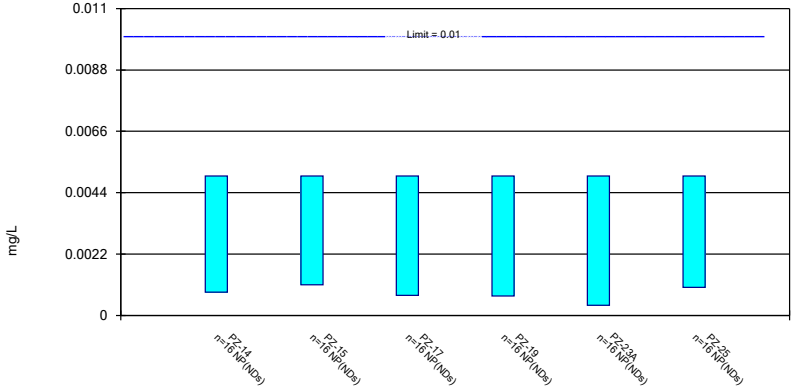


Constituent: Antimony Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

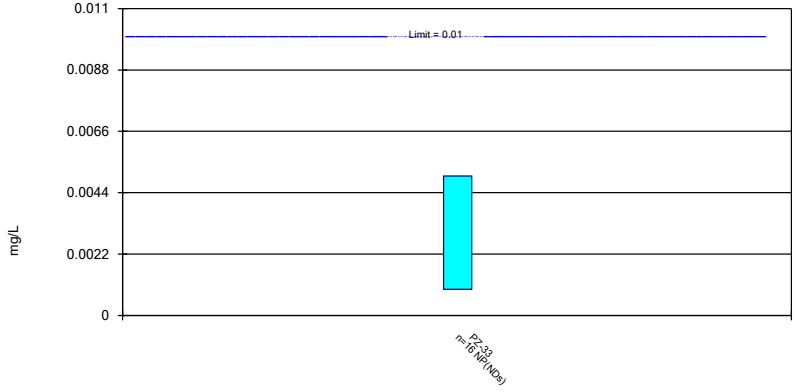


Constituent: Arsenic Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

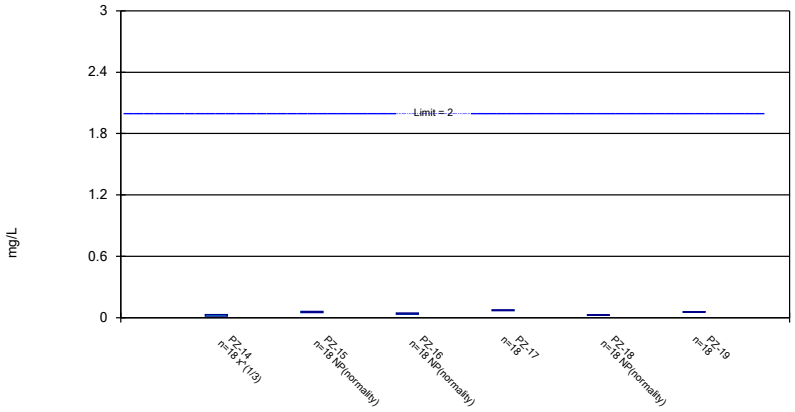


Constituent: Arsenic Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

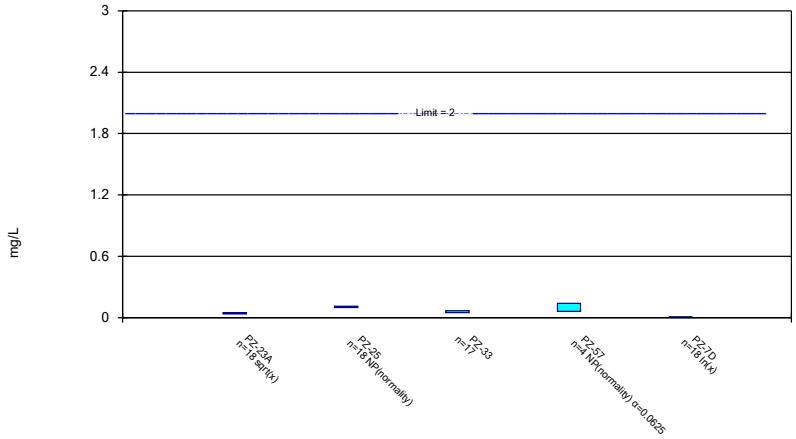


Constituent: Barium Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

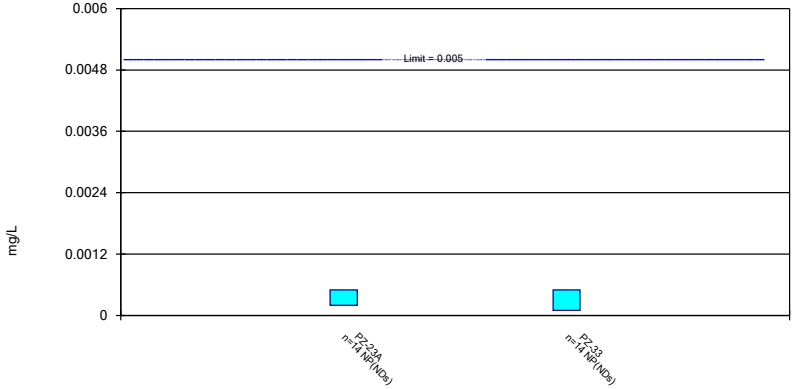


Constituent: Barium Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

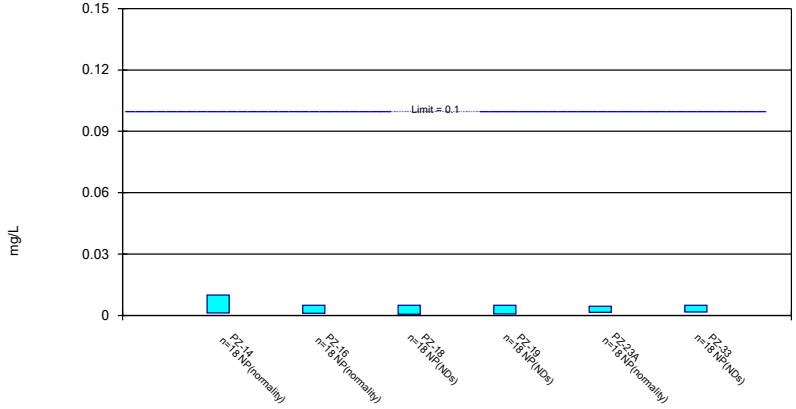


Constituent: Cadmium Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

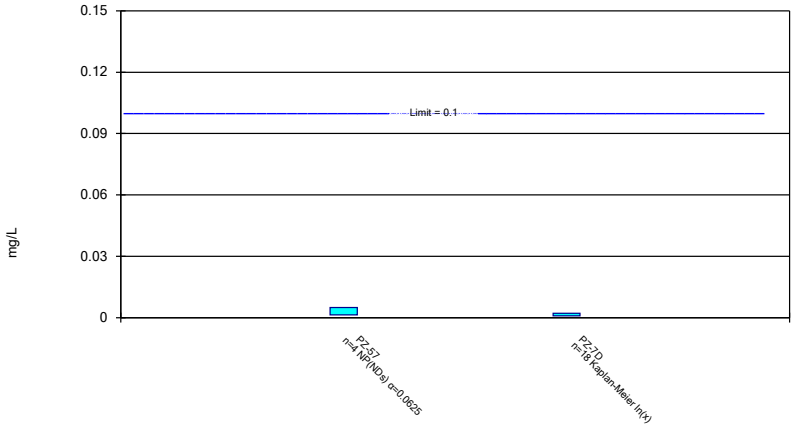


Constituent: Chromium Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

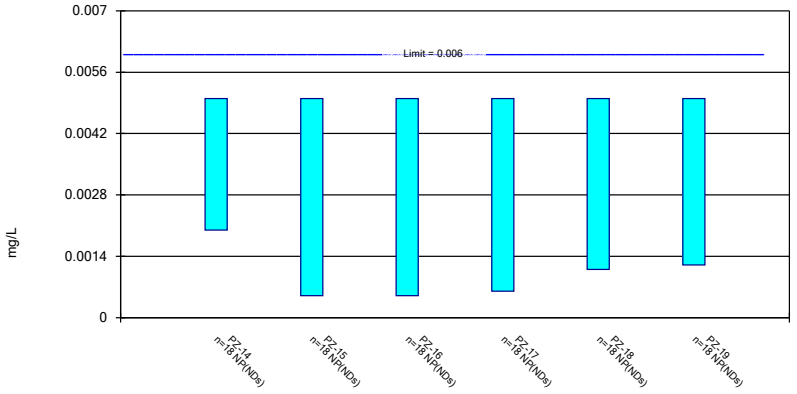


Constituent: Chromium Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

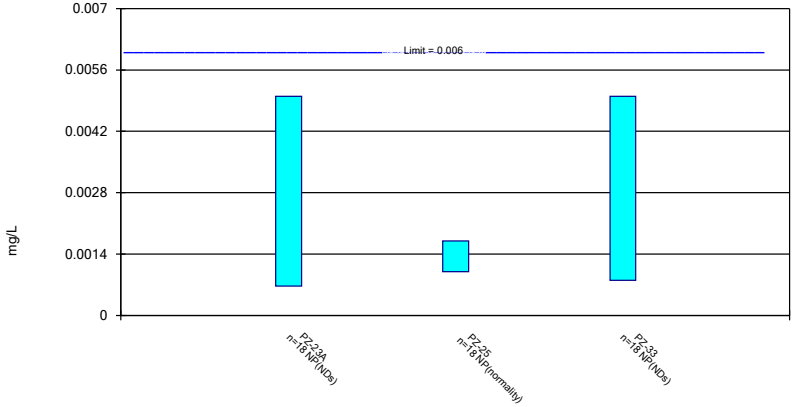


Constituent: Cobalt Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

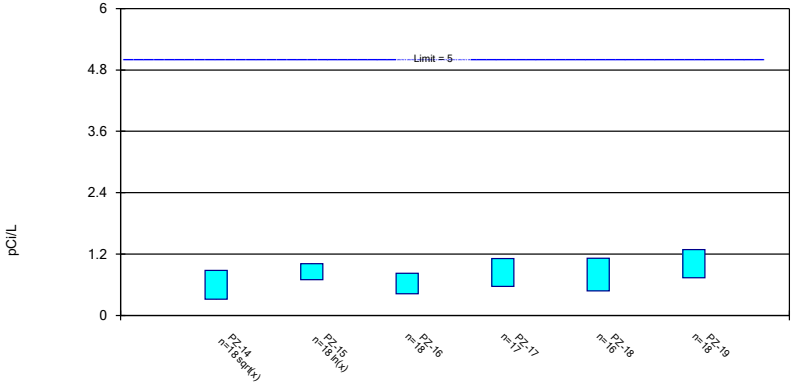


Constituent: Cobalt Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

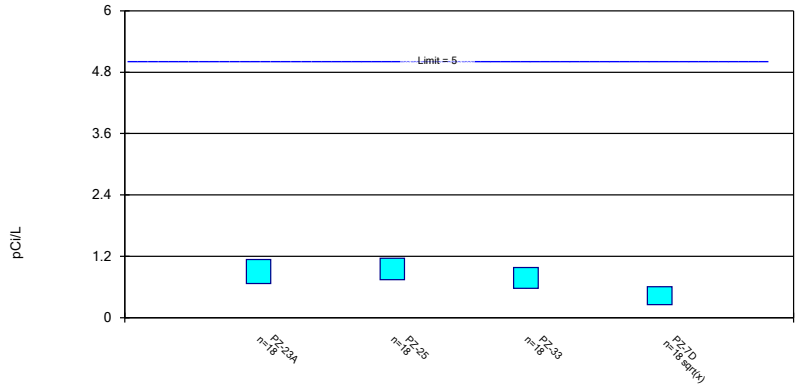


Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2024 10:53 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

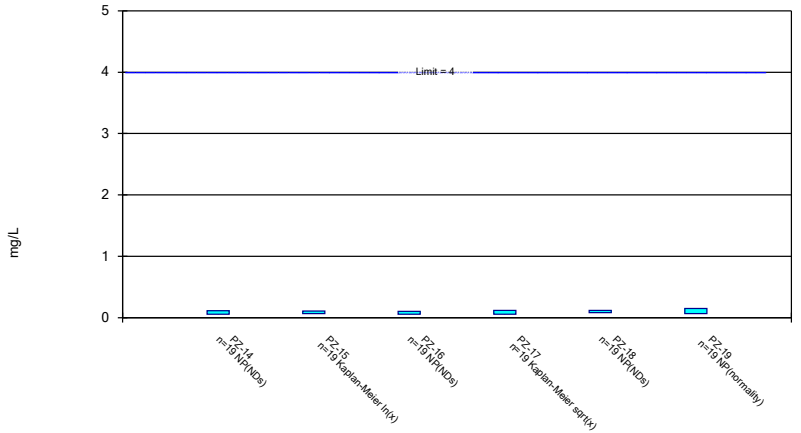


Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

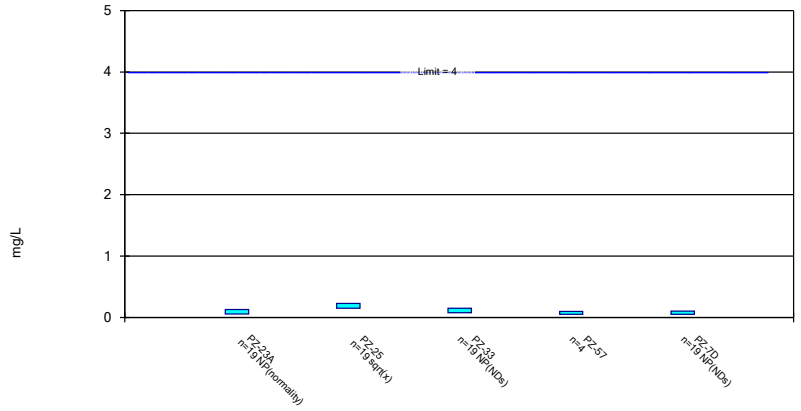


Constituent: Fluoride Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

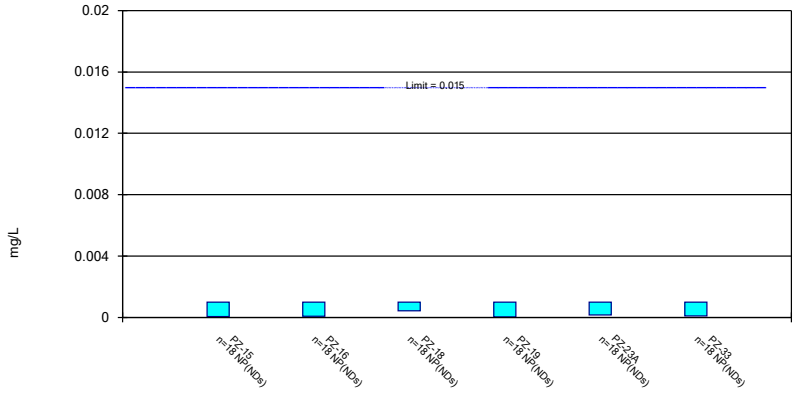


Constituent: Fluoride Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

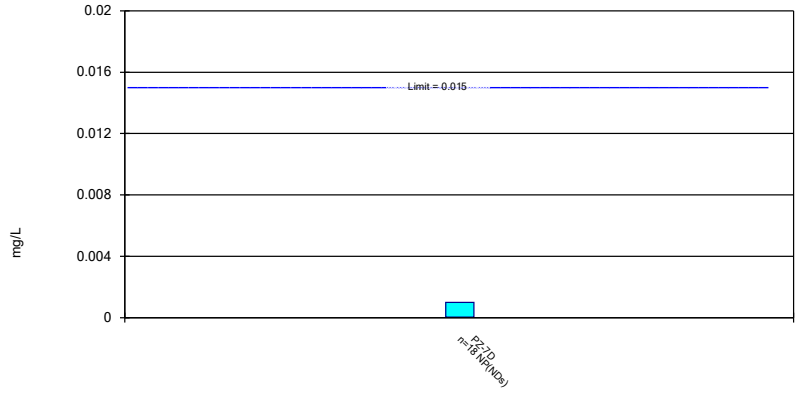


Constituent: Lead Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

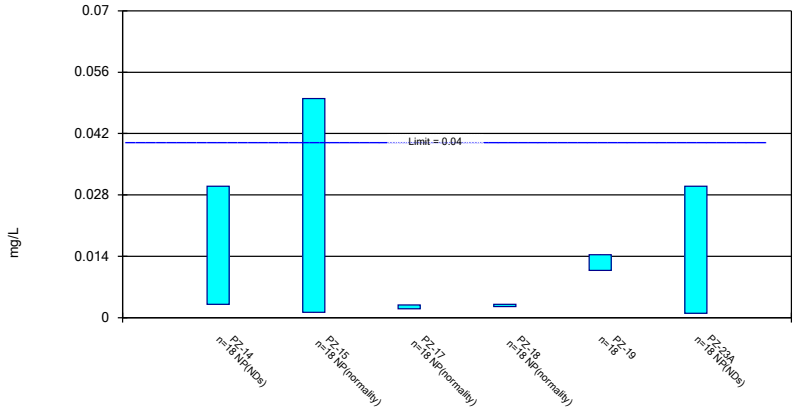


Constituent: Lead Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

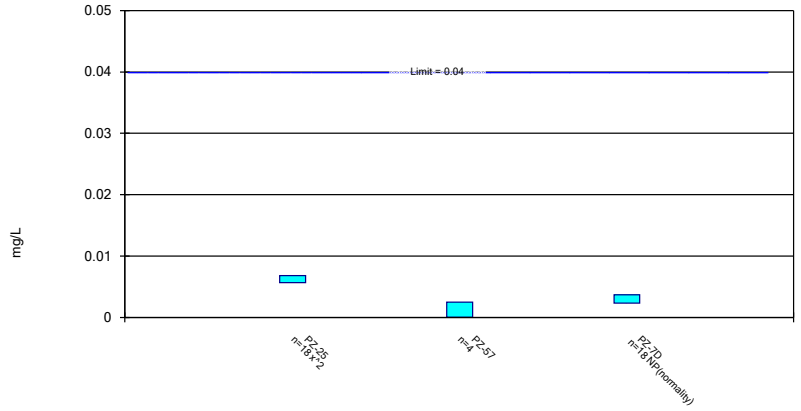


Constituent: Lithium Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

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.

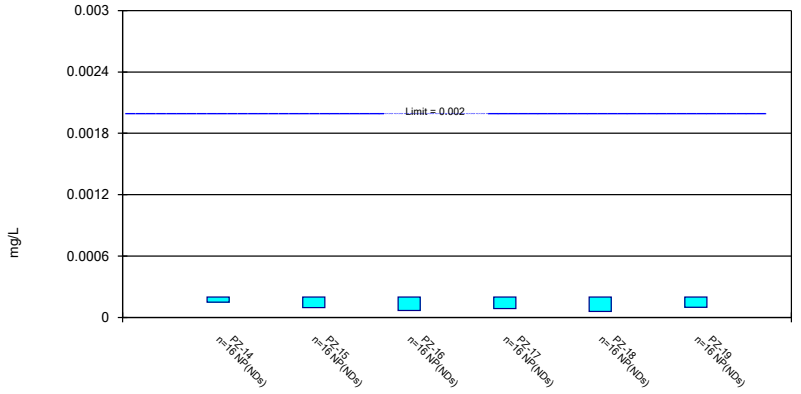


Constituent: Lithium Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

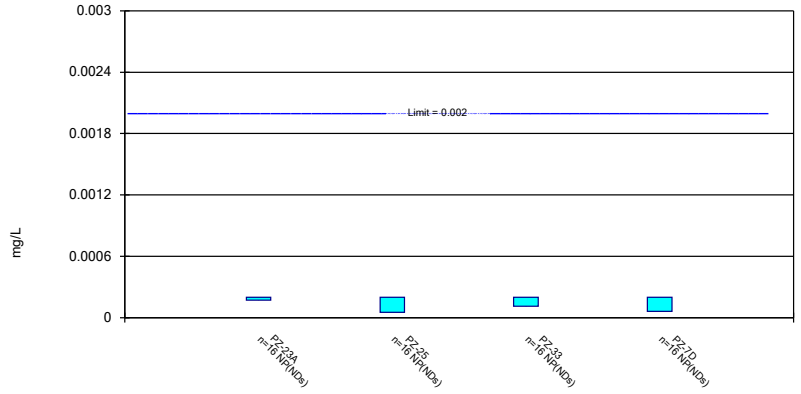


Constituent: Mercury Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

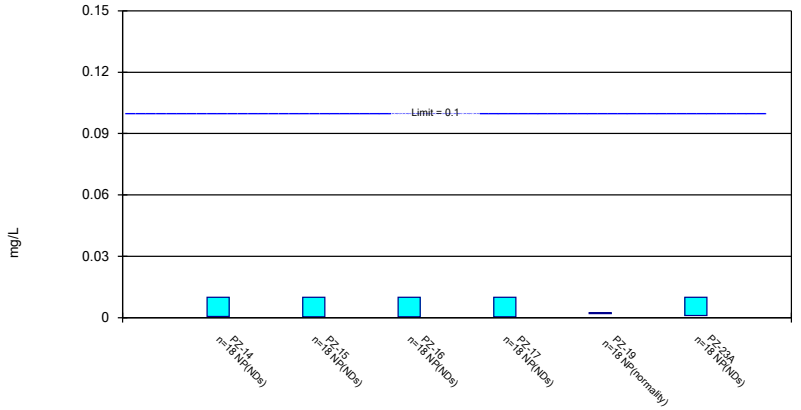


Constituent: Mercury Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

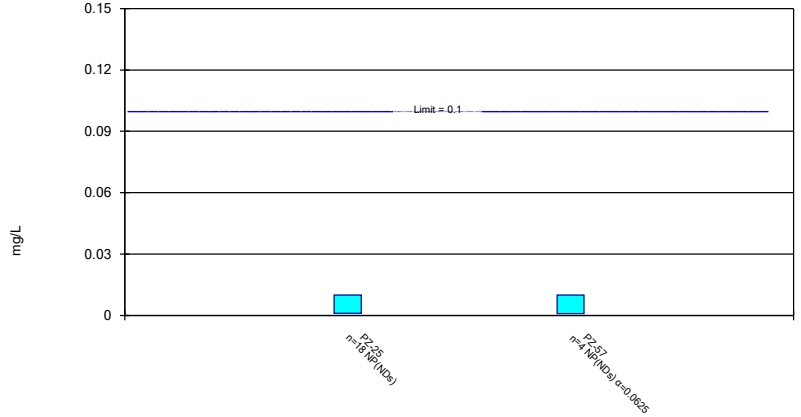


Constituent: Molybdenum Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

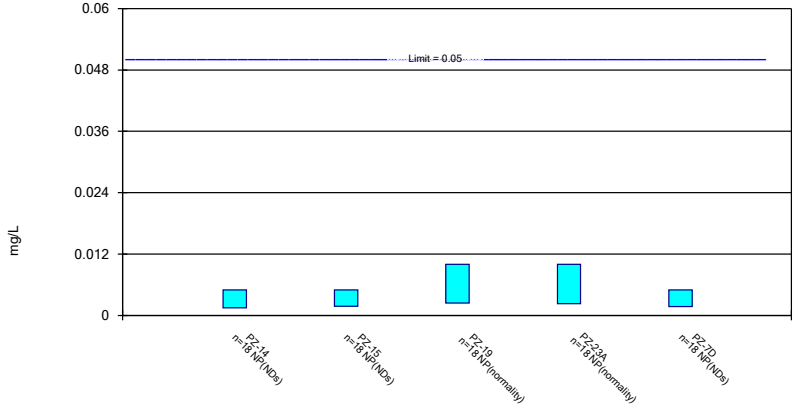


Constituent: Molybdenum Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

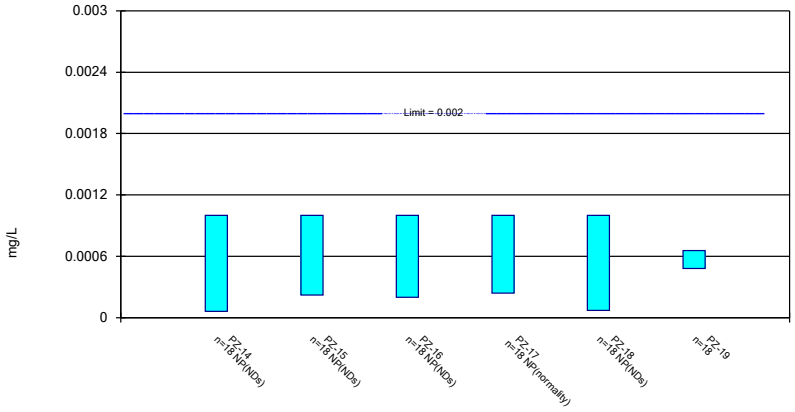
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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.

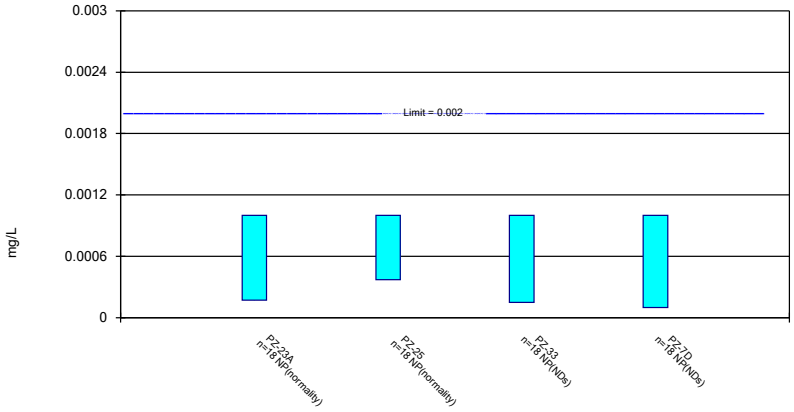


Constituent: Thallium Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 2/14/2024 10:54 AM View: Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.003					
9/1/2016		0.001 (J)				
9/6/2016			<0.003			
9/7/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
12/8/2016				<0.003	<0.003	<0.003
3/21/2017	0.0004 (J)					
3/22/2017		<0.003	<0.003	<0.003	<0.003	
3/23/2017						<0.003
7/11/2017	<0.003		<0.003			
7/12/2017		<0.003		<0.003	<0.003	<0.003
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/19/2017						<0.003
2/20/2018	<0.003					
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003
7/11/2018	<0.003					
7/12/2018		<0.003	<0.003			<0.003
8/15/2018					<0.003	
8/16/2018				<0.003		
9/12/2018	<0.003					
9/13/2018		<0.003	<0.003		<0.003	
9/14/2018				<0.003		<0.003
10/2/2019	<0.003	<0.003	<0.003	<0.003		
10/3/2019					<0.003	0.00044 (X)
3/25/2020	<0.003			0.00094 (J)		
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003
8/27/2020					<0.003	
10/6/2020	<0.003		<0.003			
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003
3/3/2021	<0.003					<0.003
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003	
9/15/2021	<0.003	<0.003	<0.003			
9/16/2021				<0.003	<0.003	<0.003
1/26/2022	<0.003	<0.003	<0.003			
1/27/2022				<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/14/2023	<0.003					
2/15/2023		<0.003	<0.003		<0.003	<0.003
2/16/2023				<0.003		
9/19/2023			<0.003			
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003
Mean	0.002856	0.002757	0.002854	0.002617	0.0029	0.002858
Std. Dev.	0.0006128	0.0007112	0.0006199	0.0008849	0.0005325	0.0006034
Upper Lim.	0.003	0.003	0.003	0.003	0.004	0.003
Lower Lim.	0.0004	0.001	0.00037	0.00094	0.0018	0.00044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.003		
9/1/2016			<0.003
12/7/2016	<0.003		<0.003
12/8/2016		<0.003	
3/21/2017	<0.003		
3/22/2017			<0.003
3/23/2017		<0.003	
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
10/18/2017	<0.003		
10/19/2017		<0.003	<0.003
2/20/2018	<0.003		
2/21/2018		<0.003	<0.003
7/11/2018	<0.003		
7/12/2018		<0.003	<0.003
9/13/2018	<0.003		<0.003
9/14/2018		<0.003	
10/4/2018		<0.003	
9/10/2019	<0.003		
10/3/2019		<0.003	0.00029 (X)
3/25/2020	<0.003		
3/26/2020		<0.003	0.00042 (J)
8/26/2020	0.00038 (J)	<0.003	0.00031 (J)
10/6/2020	<0.003		
10/7/2020		0.00037 (J)	<0.003
3/3/2021	0.0017 (J)		
3/4/2021		<0.003	<0.003
9/15/2021	<0.003		
9/16/2021		<0.003	<0.003
1/26/2022	<0.003		
1/27/2022		<0.003	<0.003
8/24/2022		0.00082 (J)	
8/25/2022	<0.003		<0.003
2/14/2023	<0.003		
2/15/2023			<0.003
2/16/2023		<0.003	
9/20/2023	<0.003		<0.003
9/21/2023		<0.003	
Mean	0.002782	0.002733	0.002557
Std. Dev.	0.000673	0.0007816	0.00102
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.00082	0.00042

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-19	PZ-23A	PZ-25
8/31/2016	<0.005				<0.005	
9/1/2016		<0.005				
9/7/2016			<0.005	<0.005		
9/8/2016						0.0017 (J)
12/7/2016	<0.005	<0.005			<0.005	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.005				<0.005	
3/22/2017		0.0011 (J)	0.0007 (J)			0.001 (J)
3/23/2017				0.0007 (J)		
7/11/2017	<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)	<0.005	<0.005		
10/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005
10/19/2017				<0.005		
2/20/2018	<0.005				<0.005	
2/21/2018		0.00089 (J)	0.00072 (J)	<0.005		0.00071 (J)
7/11/2018	<0.005				<0.005	
7/12/2018		<0.005		<0.005		<0.005
8/16/2018			0.0007 (J)			
9/12/2018	<0.005					
9/13/2018		<0.005			<0.005	<0.005
9/14/2018			<0.005	<0.005		
9/10/2019					0.00036 (X)	
10/2/2019	0.00083 (X)	<0.005	<0.005			0.00063 (X)
10/3/2019				<0.005		
3/25/2020	<0.005		<0.005		<0.005	<0.005
3/26/2020		<0.005		<0.005		
8/26/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2021	<0.005	<0.005			<0.005	<0.005
9/16/2021			<0.005	<0.005		
1/26/2022	<0.005	<0.005			<0.005	<0.005
1/27/2022			<0.005	<0.005		
8/24/2022						<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2023	<0.005				<0.005	
2/15/2023		<0.005		<0.005		<0.005
2/16/2023			<0.005			
9/19/2023						<0.005
9/20/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
Mean	0.004739	0.004224	0.004195	0.004731	0.00471	0.004002
Std. Dev.	0.001042	0.00167	0.001731	0.001075	0.00116	0.001798
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00083	0.0011	0.00072	0.0007	0.00036	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-33
12/8/2016	<0.005
3/23/2017	0.0007 (J)
7/12/2017	<0.005
10/19/2017	<0.005
2/21/2018	0.00094 (J)
7/12/2018	<0.005
9/14/2018	<0.005
10/4/2018	<0.005
10/3/2019	<0.005
3/26/2020	<0.005
8/26/2020	<0.005
9/16/2021	<0.005
1/27/2022	<0.005
8/24/2022	<0.005
2/16/2023	<0.005
9/21/2023	<0.005
Mean	0.004477
Std. Dev.	0.001428
Upper Lim.	0.005
Lower Lim.	0.00094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.0253					
9/1/2016		0.103				
9/6/2016			0.0794			
9/7/2016				0.0823	0.0717	0.067
12/7/2016	0.065	0.0781	0.0689			
12/8/2016				0.0668	0.0513	0.0522
3/21/2017	0.0379					
3/22/2017		0.0589	0.0423	0.0821	0.0273	
3/23/2017						0.0591
7/11/2017	0.036		0.0467			
7/12/2017		0.0613		0.0805	0.0269	0.0604
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258	
10/19/2017						0.0542
2/20/2018	0.03					
2/21/2018		0.076	0.046	0.073	0.029	0.058
7/11/2018	0.027					
7/12/2018		0.056	0.043			0.057
8/15/2018					0.027	
8/16/2018				0.081		
9/12/2018	0.022					
9/13/2018		0.048	0.038		0.023	
9/14/2018				0.081		0.058
10/2/2019	0.017	0.049	0.038	0.074		
10/3/2019					0.025	0.057
3/25/2020	0.021			0.077		
3/26/2020		0.048	0.034		0.023	0.052
8/26/2020	0.016	0.053	0.036	0.077		0.049
8/27/2020					0.023	
10/6/2020	0.016		0.034			
10/7/2020		0.049		0.074	0.023	0.054
3/3/2021	0.017					0.055
3/4/2021		0.047	0.035	0.071	0.023	
9/15/2021	0.014	0.045	0.032			
9/16/2021				0.064	0.022	0.053
1/26/2022	0.016	0.055	0.034			
1/27/2022				0.072	0.025	0.055
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046
2/14/2023	0.014					
2/15/2023		0.048	0.033		0.026	0.051
2/16/2023				0.059		
9/19/2023			0.038			
9/20/2023	0.01	0.05		0.058	0.022	0.053
Mean	0.02333	0.058	0.04211	0.07285	0.02889	0.05505
Std. Dev.	0.01312	0.01462	0.01266	0.008036	0.01253	0.004699
Upper Lim.	0.02871	0.0617	0.046	0.07771	0.0273	0.05789
Lower Lim.	0.01571	0.048	0.034	0.06799	0.023	0.05221

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-57	PZ-7D
8/31/2016	0.0407				
9/1/2016					0.0117
9/8/2016		0.102			
12/7/2016	0.0581				0.0133
12/8/2016		0.102	0.162 (o)		
3/21/2017	0.0678				
3/22/2017		0.0951			0.0114
3/23/2017			0.0753		
7/11/2017	0.0574	0.102			
7/12/2017			0.0756		0.0097 (J)
10/18/2017	0.0351	0.0997			
10/19/2017			0.0681		0.0091 (J)
2/20/2018	0.05				
2/21/2018		0.11	0.085		0.0086 (J)
7/11/2018	0.051				
7/12/2018		0.1	0.076		0.0093 (J)
9/13/2018	0.038	0.1			0.0078 (J)
9/14/2018			0.071		
10/4/2018			0.072		
9/10/2019	0.029				
10/2/2019		0.11			
10/3/2019			0.057		0.007 (X)
3/25/2020	0.048	0.11			
3/26/2020			0.057		0.0072 (J)
8/26/2020	0.039	0.1	0.051		0.007 (J)
10/6/2020	0.037				
10/7/2020		0.11	0.048		0.0061 (J)
3/3/2021	0.039	0.12			
3/4/2021			0.047		0.0061
9/15/2021	0.037	0.11			
9/16/2021			0.039		0.0062
1/26/2022	0.039	0.11			
1/27/2022			0.043	0.14	0.0068
8/24/2022		0.1	0.038		
8/25/2022	0.036				0.0058
8/26/2022				0.064	
2/14/2023	0.033				
2/15/2023		0.1			0.006
2/16/2023			0.04	0.063	
9/19/2023		0.11			
9/20/2023	0.035				0.0059
9/21/2023			0.041	0.062	
Mean	0.04278	0.105	0.05788	0.08225	0.008056
Std. Dev.	0.01032	0.006316	0.01581	0.03851	0.002266
Upper Lim.	0.04841	0.11	0.06779	0.14	0.009122
Lower Lim.	0.03649	0.1	0.04798	0.062	0.006648

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33
8/31/2016	0.0002 (J)	
12/7/2016	0.0002 (J)	
12/8/2016		<0.0005
3/21/2017	<0.0005	
3/23/2017		0.0001 (J)
7/11/2017	<0.0005	
7/12/2017		<0.0005
10/18/2017	<0.0005	
10/19/2017		<0.0005
2/20/2018	<0.0005	
2/21/2018		<0.0005
7/11/2018	<0.0005	
7/12/2018		<0.0005
9/13/2018	<0.0005	
9/14/2018		<0.0005
10/4/2018		<0.0005
8/26/2020	<0.0005	<0.0005
9/15/2021	<0.0005	
9/16/2021		<0.0005
1/26/2022	<0.0005	
1/27/2022		<0.0005
8/24/2022		<0.0005
8/25/2022	<0.0005	
2/14/2023	<0.0005	
2/16/2023		<0.0005
9/20/2023	<0.0005	
9/21/2023		<0.0005
Mean	0.0004571	0.0004714
Std. Dev.	0.0001089	0.0001069
Upper Lim.	0.0005	0.0005
Lower Lim.	0.0002	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016	<0.01				<0.01	
9/6/2016		<0.005				
9/7/2016			<0.005	<0.005		
12/7/2016	<0.01	<0.005			<0.01	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.01				0.0009 (J)	
3/22/2017		0.0008 (J)	<0.005			
3/23/2017				<0.005		0.0017 (J)
7/11/2017	<0.01	<0.005			0.0016 (J)	
7/12/2017			<0.005	<0.005		<0.005
10/18/2017	<0.01	<0.005	<0.005		0.0019 (J)	
10/19/2017				<0.005		<0.005
2/20/2018	<0.01				<0.01	
2/21/2018		<0.005	<0.005	<0.005		<0.005
7/11/2018	<0.01				0.0021 (J)	
7/12/2018		<0.005		<0.005		<0.005
8/15/2018			<0.005			
9/12/2018	<0.01					
9/13/2018		<0.005	<0.005		0.0022 (J)	
9/14/2018				<0.005		<0.005
10/4/2018						<0.005
9/10/2019					0.0044 (X)	
10/2/2019	<0.01	0.00044 (X)				
10/3/2019			<0.005	<0.005		<0.005
3/25/2020	0.0013 (J)				0.0012 (J)	
3/26/2020		0.0013 (J)	0.00056 (J)	0.00073 (J)		<0.005
8/26/2020	0.0011 (J)	0.00087 (J)		<0.005	0.0014 (J)	<0.005
8/27/2020			<0.005			
10/6/2020	0.00098 (J)	0.0011 (J)			0.0015 (J)	
10/7/2020			<0.005	<0.005		<0.005
3/3/2021	0.00097 (J)			<0.005	0.0015 (J)	
3/4/2021		0.0012 (J)	<0.005			<0.005
9/15/2021	0.0014 (J)	0.0011 (J)			0.0019 (J)	
9/16/2021			<0.005	<0.005		<0.005
1/26/2022	0.0012 (J)	0.0013 (J)			0.0028 (J)	
1/27/2022			<0.005	<0.005		<0.005
8/24/2022						<0.005
8/25/2022	0.0014 (J)	0.0012 (J)	<0.005	<0.005	0.0022 (J)	
2/14/2023	0.0018 (J)				0.0024 (J)	
2/15/2023		<0.005	<0.005	<0.005		
2/16/2023						<0.005
9/19/2023		<0.005				
9/20/2023	0.002 (J)		<0.005	<0.005	0.002 (J)	
9/21/2023						<0.005
Mean	0.005675	0.003017	0.004753	0.004763	0.003333	0.004817
Std. Dev.	0.004457	0.002049	0.001047	0.001006	0.003158	0.0007778
Upper Lim.	0.01	0.005	0.005	0.005	0.0044	0.005
Lower Lim.	0.0012	0.0011	0.00056	0.00073	0.0015	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-57	PZ-7D
9/1/2016		<0.01
12/7/2016		0.003 (J)
3/22/2017		0.0005 (J)
7/12/2017		<0.01
10/19/2017		0.0005 (J)
2/21/2018		<0.01
7/12/2018		<0.01
9/13/2018		<0.01
10/3/2019		0.0004 (X)
3/26/2020		0.0016 (J)
8/26/2020		0.0011 (J)
10/7/2020		0.0014 (J)
3/4/2021		0.0024 (J)
9/16/2021		0.0025 (J)
1/27/2022	<0.005	0.0034 (J)
8/25/2022		0.0024 (J)
8/26/2022	<0.005	
2/15/2023		0.0034 (J)
2/16/2023	<0.005	
9/20/2023		0.0022 (J)
9/21/2023	0.0013 (J)	
Mean	0.004075	0.004156
Std. Dev.	0.00185	0.003837
Upper Lim.	0.005	0.002053
Lower Lim.	0.0013	0.0008136

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.005					
9/1/2016		0.0012 (J)				
9/6/2016			0.0005 (J)			
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)
12/7/2016	0.002 (J)	0.0005 (J)	<0.005			
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)
3/21/2017	<0.005					
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005	
3/23/2017						<0.005
7/11/2017	0.0003 (J)		<0.005			
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005	
10/19/2017						<0.005
2/20/2018	<0.005					
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005
7/11/2018	<0.005					
7/12/2018		<0.005	<0.005			<0.005
8/15/2018					<0.005	
8/16/2018				<0.005		
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		<0.005	
9/14/2018				<0.005		<0.005
10/2/2019	<0.005	<0.005	<0.005	<0.005		
10/3/2019					<0.005	<0.005
3/25/2020	<0.005			0.00032 (J)		
3/26/2020		<0.005	<0.005		<0.005	<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005
8/27/2020					<0.005	
10/6/2020	<0.005		<0.005			
10/7/2020		<0.005		<0.005	<0.005	<0.005
3/3/2021	<0.005					<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005	
9/15/2021	<0.005	<0.005	<0.005			
9/16/2021				<0.005	<0.005	<0.005
1/26/2022	<0.005	<0.005	<0.005			
1/27/2022				<0.005	<0.005	<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2023	<0.005					
2/15/2023		<0.005	<0.005		<0.005	<0.005
2/16/2023				<0.005		
9/19/2023			<0.005			
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005
Mean	0.004572	0.003778	0.00475	0.003534	0.004783	0.004561
Std. Dev.	0.001279	0.002035	0.001061	0.002137	0.0009192	0.001278
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.002	0.0005	0.0005	0.0006	0.0011	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33
8/31/2016	<0.005		
9/8/2016		0.0008 (J)	
12/7/2016	0.0008 (J)		
12/8/2016		<0.01	0.0041 (J)
3/21/2017	<0.005		
3/22/2017		0.001 (J)	
3/23/2017			0.0008 (J)
7/11/2017	<0.005	0.001 (J)	
7/12/2017			0.0007 (J)
10/18/2017	<0.005	0.0011 (J)	
10/19/2017			0.0005 (J)
2/20/2018	<0.005		
2/21/2018		0.00075 (J)	0.0012 (J)
7/11/2018	<0.005		
7/12/2018		0.0008 (J)	0.00053 (J)
9/13/2018	<0.005	0.001 (J)	
9/14/2018			<0.005
10/4/2018			<0.005
9/10/2019	<0.005		
10/2/2019		0.0017 (X)	
10/3/2019			<0.005
3/25/2020	0.0003 (J)	0.0018 (J)	
3/26/2020			<0.005
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005
10/6/2020	0.00067 (J)		
10/7/2020		0.0014 (J)	<0.005
3/3/2021	0.00049 (J)	0.0016 (J)	
3/4/2021			<0.005
9/15/2021	<0.005	0.002 (J)	
9/16/2021			<0.005
1/26/2022	<0.005	0.0016 (J)	
1/27/2022			<0.005
8/24/2022		0.0016 (J)	<0.005
8/25/2022	<0.005		
2/14/2023	<0.005		
2/15/2023		0.0012 (J)	
2/16/2023			<0.005
9/19/2023		0.0017 (J)	
9/20/2023	<0.005		
9/21/2023			<0.005
Mean	0.003769	0.001536	0.003768
Std. Dev.	0.002045	0.0009468	0.001945
Upper Lim.	0.005	0.0017	0.005
Lower Lim.	0.00067	0.001	0.0008

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	1.77					
9/1/2016		1.19				
9/6/2016			1.12			
9/7/2016				1.06 (U)	1.51	1.22
12/7/2016	0.672 (U)	1.88	1.37			
12/8/2016				1.3	1.29	1.69
3/21/2017	0.33 (U)					
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)	
3/23/2017						1.07
7/11/2017	0.701 (U)		0.76 (U)			
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)	
10/19/2017						0.398 (U)
2/20/2018	2.12					
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)
7/11/2018	0.232 (U)					
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)
9/12/2018	0.532 (U)					
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)	
9/14/2018				1.16		0.74 (U)
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)		
10/3/2019					2.07	1.9
3/25/2020	0.694 (U)			0.385 (U)		
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)
10/6/2020	0.265 (U)		1.12 (U)			
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893
3/3/2021	0.328 (U)					0.469 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)			
9/16/2021				0.377 (U)	0.681 (U)	1.4
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)			
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937
2/14/2023	0.0857 (U)					
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)
2/16/2023				0.129 (U)		
9/19/2023			0.531 (U)			
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)
Mean	0.6547	0.882	0.623	0.8408	0.7996	1.009
Std. Dev.	0.5407	0.3149	0.3329	0.4365	0.4927	0.4555
Upper Lim.	0.881	1.01	0.8244	1.114	1.12	1.285
Lower Lim.	0.317	0.7004	0.4216	0.5673	0.479	0.7336

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	1.85			
9/1/2016				0.88 (U)
9/8/2016		1.41		
12/7/2016	0.844 (U)			0.179 (U)
12/8/2016		1.39	0.968 (U)	
3/21/2017	0.832 (U)			
3/22/2017		0.852 (U)		0.279 (U)
3/23/2017			0.444 (U)	
7/11/2017	0.824 (U)	1.04		
7/12/2017			0.814 (U)	0.125 (U)
10/18/2017	1.19	0.678 (U)		
10/19/2017			0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			
2/21/2018		0.863 (U)	1.05 (U)	0.504 (U)
7/11/2018	1.29			
7/12/2018		1.42	0.751 (U)	0.188 (U)
9/13/2018	0.765 (U)	0.766 (U)		0.0542 (U)
9/14/2018			1.01 (U)	
10/4/2018			1.05	
9/10/2019	0.575 (U)			
10/2/2019		1.48		
10/3/2019			1.62 (U)	1.37
3/25/2020	1.39	0.91 (U)		
3/26/2020			0.473 (U)	0.43 (U)
8/26/2020	0.774 (U)	0.95 (U)	0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)			
10/7/2020		1.01 (U)	0.442 (U)	0.232 (U)
3/3/2021	1.01 (U)	0.545 (U)		
3/4/2021			1.03 (U)	0.529 (U)
9/15/2021	0.742 (U)	1.07 (U)		
9/16/2021			0.184 (U)	0.382 (U)
1/26/2022	0.76 (U)	0.282 (U)		
1/27/2022			0.259 (U)	0.315 (U)
8/24/2022		0.764 (U)	0.764 (U)	
8/25/2022	0.396 (U)			0.771 (U)
2/14/2023	0.521 (U)			
2/15/2023		0.484 (U)		0.496 (U)
2/16/2023			0.765	
9/19/2023		1.21 (U)		
9/20/2023	0.235 (U)			0.623 (U)
9/21/2023			0.809 (U)	
Mean	0.9007	0.9513	0.7757	0.4588
Std. Dev.	0.3873	0.3421	0.339	0.317
Upper Lim.	1.135	1.158	0.9809	0.6043
Lower Lim.	0.6664	0.7444	0.5706	0.2543

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.13 (J)					
9/1/2016		0.06 (J)				
9/6/2016			0.09 (J)			
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)			
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	<0.1					
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)	
3/23/2017						0.14 (J)
7/11/2017	0.05 (J)		0.05 (J)			
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)	
10/19/2017						<0.3
2/20/2018	0.04 (J)					
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37
7/11/2018	<0.1					
7/12/2018		<0.1	<0.1			0.17 (J)
8/15/2018					<0.1	
8/16/2018				0.073 (J)		
9/12/2018	<0.1					
9/13/2018		0.15 (J)	<0.1		<0.1	
9/14/2018				<0.1		<0.3
3/27/2019	<0.1		<0.1		<0.1	
3/28/2019		0.1		0.15		0.074
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)		
10/3/2019					0.043 (X)	0.084 (X)
3/25/2020	<0.1			<0.1		
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020					<0.1	
10/6/2020	<0.1		<0.1			
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)
3/3/2021	<0.1					0.058 (J)
3/4/2021		<0.1	<0.1	<0.1	<0.1	
9/15/2021	<0.1	<0.1	<0.1			
9/16/2021				0.052 (J)	<0.1	0.067 (J)
1/26/2022	<0.1	<0.1	<0.1			
1/27/2022				<0.1	<0.1	0.056 (J)
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)
2/14/2023	<0.1					
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)
2/16/2023				0.077 (J)		
9/19/2023			<0.1			
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)
Mean	0.08984	0.1029	0.08284	0.1135	0.09953	0.1114
Std. Dev.	0.02401	0.0441	0.02414	0.06142	0.03287	0.07282
Upper Lim.	0.11	0.1079	0.1	0.1175	0.12	0.15
Lower Lim.	0.056	0.0675	0.053	0.05745	0.08	0.064

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-57	PZ-7D
8/31/2016	0.13 (J)				
9/1/2016					<0.1
9/8/2016		0.25 (J)			
12/7/2016	0.13 (J)				0.15 (J)
12/8/2016		0.22 (J)	0.21 (J)		
3/21/2017	0.05 (J)				
3/22/2017		0.16 (J)			0.09 (J)
3/23/2017			0.18 (J)		
7/11/2017	0.05 (J)	0.23 (J)			
7/12/2017			0.06 (J)		0.02 (J)
10/18/2017	<0.1	0.28 (J)			
10/19/2017			<0.1		<0.1
2/20/2018	0.3 (J)				
2/21/2018		0.29 (J)	0.039 (J)		0.045 (J)
7/11/2018	0.077 (J)				
7/12/2018		0.21 (J)	<0.1		<0.1
9/13/2018	<0.1	0.22 (J)			<0.1
9/14/2018			<0.1		
10/4/2018			0.15 (J)		
3/27/2019	<0.1	0.37			
3/28/2019			<0.1		<0.1
9/10/2019	<0.1				
10/2/2019		0.16 (X)			
10/3/2019			0.06 (X)		0.041 (X)
3/25/2020	0.066 (J)	0.13 (J)			
3/26/2020			<0.1		<0.1
8/26/2020	0.057 (J)	0.14	<0.1		<0.1
10/6/2020	0.052 (J)				
10/7/2020		0.13	<0.1		<0.1
3/3/2021	<0.1	0.12			
3/4/2021			<0.1		<0.1
9/15/2021	<0.1	0.14			
9/16/2021			<0.1		<0.1
1/26/2022	<0.1	0.11			
1/27/2022			<0.1	0.057 (J)	<0.1
8/24/2022		0.15	0.092 (J)		
8/25/2022	0.074 (J)				0.056 (J)
8/26/2022				0.083 (J)	
2/14/2023	0.084 (J)				
2/15/2023		0.16			0.05 (J)
2/16/2023			0.082 (J)	0.077 (J)	
9/19/2023		0.14			
9/20/2023	0.062 (J)				<0.1
9/21/2023			0.074 (J)	0.074 (J)	
Mean	0.09642	0.19	0.1025	0.07275	0.08695
Std. Dev.	0.05516	0.07	0.04005	0.01115	0.03046
Upper Lim.	0.13	0.2249	0.15	0.09806	0.1
Lower Lim.	0.057	0.1481	0.074	0.04744	0.05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-15	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016					<0.001	
9/1/2016	<0.001					
9/6/2016		<0.001				
9/7/2016			<0.001	<0.001		
12/7/2016	<0.001	<0.001			<0.001	
12/8/2016			<0.001	<0.001		<0.001
3/21/2017					<0.001	
3/22/2017	5E-05 (J)	<0.001	<0.001			
3/23/2017				<0.001		9E-05 (J)
7/11/2017		<0.001			<0.001	
7/12/2017	<0.001		<0.001	<0.001		<0.001
10/18/2017	<0.001	<0.001	<0.001		<0.001	
10/19/2017				<0.001		<0.001
2/20/2018					<0.001	
2/21/2018	<0.001	<0.001	0.00043 (J)	<0.001		<0.001
7/11/2018					<0.001	
7/12/2018	<0.001	<0.001		<0.001		<0.001
8/15/2018			<0.001			
9/13/2018	<0.001	<0.001	<0.001		<0.001	
9/14/2018				<0.001		<0.001
10/4/2018						<0.001
9/10/2019					<0.001	
10/2/2019	<0.001	8.1E-05 (X)				
10/3/2019			<0.001	<0.001		4.7E-05 (X)
3/25/2020					0.00015 (J)	
3/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2020	<0.001	<0.001		<0.001	<0.001	<0.001
8/27/2020			<0.001			
10/6/2020		<0.001			4.7E-05 (J)	
10/7/2020	<0.001		4.2E-05 (J)	4.2E-05 (J)		<0.001
3/3/2021				<0.001	5.8E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001			<0.001
9/15/2021	<0.001	<0.001			<0.001	
9/16/2021			<0.001	<0.001		<0.001
1/26/2022	<0.001	<0.001			<0.001	
1/27/2022			<0.001	<0.001		<0.001
8/24/2022						<0.001
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2023					<0.001	
2/15/2023	<0.001	<0.001	<0.001	<0.001		
2/16/2023						<0.001
9/19/2023		<0.001				
9/20/2023	<0.001		<0.001	<0.001	<0.001	
9/21/2023						<0.001
Mean	0.0009472	0.0009489	0.0009151	0.0009468	0.0008475	0.0008965
Std. Dev.	0.0002239	0.0002166	0.0002559	0.0002258	0.0003514	0.0003013
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5E-05	8.1E-05	0.00043	4.2E-05	0.00015	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.001
12/7/2016	<0.001
3/22/2017	<0.001
7/12/2017	<0.001
10/19/2017	<0.001
2/21/2018	<0.001
7/12/2018	<0.001
9/13/2018	<0.001
10/3/2019	<0.001
3/26/2020	<0.001
8/26/2020	<0.001
10/7/2020	<0.001
3/4/2021	4.1E-05 (J)
9/16/2021	<0.001
1/27/2022	<0.001
8/25/2022	<0.001
2/15/2023	<0.001
9/20/2023	<0.001
Mean	0.0009467
Std. Dev.	0.000226
Upper Lim.	0.001
Lower Lim.	4.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-18	PZ-19	PZ-23A
8/31/2016	<0.03					<0.03
9/1/2016		<0.05				
9/7/2016			<0.05	<0.05	0.0082 (J)	
12/7/2016	0.003 (J)	<0.05				<0.03
12/8/2016			<0.05	<0.05	0.0061 (J)	
3/21/2017	<0.03					<0.03
3/22/2017		0.0011 (J)	0.0021 (J)	0.0029 (J)		
3/23/2017					0.0122 (J)	
7/11/2017	<0.03					<0.03
7/12/2017		<0.05	0.002 (J)	0.0024 (J)	0.013 (J)	
10/18/2017	<0.03	<0.05	0.002 (J)	0.0027 (J)		<0.03
10/19/2017					0.013 (J)	
2/20/2018	<0.03					<0.03
2/21/2018		<0.05	0.0022 (J)	0.0021 (J)	0.0085 (J)	
7/11/2018	<0.03					<0.03
7/12/2018		0.0012 (J)			0.013 (J)	
8/15/2018				0.0027 (J)		
8/16/2018			0.0027 (J)			
9/12/2018	<0.03					
9/13/2018		0.0013 (J)		0.0029 (J)		<0.03
9/14/2018			0.0025 (J)		0.018 (J)	
9/10/2019						<0.03
10/2/2019	<0.03	0.0013 (X)	0.0024 (X)			
10/3/2019				0.0027 (X)	0.016 (X)	
3/25/2020	<0.03		0.003 (J)			0.0011 (J)
3/26/2020		0.0014 (J)		0.0027 (J)	0.013 (J)	
8/26/2020	<0.03	0.0013 (J)	0.0028 (J)		0.011 (J)	0.0011 (J)
8/27/2020				0.0025 (J)		
10/6/2020	<0.03					0.00097 (J)
10/7/2020		0.0013 (J)	0.0029 (J)	0.003 (J)	0.013 (J)	
3/3/2021	<0.03				0.015 (J)	0.001 (J)
3/4/2021		0.0014 (J)	0.002 (J)	0.0029 (J)		
9/15/2021	<0.03	0.0013 (J)				0.00085 (J)
9/16/2021			0.0021 (J)	0.0023 (J)	0.013 (J)	
1/26/2022	<0.03	0.0013 (J)				<0.03
1/27/2022			0.0022 (J)	0.003 (J)	0.016 (J)	
8/25/2022	<0.03	0.0012 (J)	0.0018 (J)	0.0033 (J)	0.012 (J)	<0.03
2/14/2023	<0.03					<0.03
2/15/2023		0.001 (J)		0.0027 (J)	0.011 (J)	
2/16/2023			0.0014 (J)			
9/20/2023	<0.03	0.0014 (J)	0.0012 (J)	0.0028 (J)	0.014 (J)	0.00088 (J)
Mean	0.0285	0.01481	0.004739	0.0052	0.01256	0.02033
Std. Dev.	0.006364	0.02246	0.007386	0.007209	0.00292	0.01408
Upper Lim.	0.03	0.05	0.0029	0.003	0.01432	0.03
Lower Lim.	0.003	0.0012	0.002	0.0025	0.01079	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-57	PZ-7D
9/1/2016			0.0022 (J)
9/8/2016	0.0038 (J)		
12/7/2016			0.0023 (J)
12/8/2016	0.0038 (J)		
3/22/2017	0.0068 (J)		0.0025 (J)
7/11/2017	0.0059 (J)		
7/12/2017			0.0033 (J)
10/18/2017	0.0057 (J)		
10/19/2017			<0.25
2/21/2018	0.0063 (J)		0.0034 (J)
7/12/2018	0.0063 (J)		0.0038 (J)
9/13/2018	0.0061 (J)		0.0026 (J)
10/2/2019	0.0074 (X)		
10/3/2019			0.0032 (X)
3/25/2020	0.0066 (J)		
3/26/2020			0.0031 (J)
8/26/2020	0.0065 (J)		0.0023 (J)
10/7/2020	0.0063 (J)		0.0023 (J)
3/3/2021	0.0061 (J)		
3/4/2021			0.0031 (J)
9/15/2021	0.0061 (J)		
9/16/2021			0.0025 (J)
1/26/2022	0.008 (J)		
1/27/2022		0.002 (J)	0.0039 (J)
8/24/2022	0.0073 (J)		
8/25/2022			0.003 (J)
8/26/2022		0.0013 (J)	
2/15/2023	0.0057 (J)		0.0037 (J)
2/16/2023		0.00082 (J)	
9/19/2023	0.0064 (J)		
9/20/2023			0.0023 (J)
9/21/2023		0.00089 (J)	
Mean	0.006172	0.001253	0.009694
Std. Dev.	0.001049	0.0005414	0.02878
Upper Lim.	0.006815	0.002482	0.0037
Lower Lim.	0.005641	2.324E-05	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.0002					
9/1/2016		<0.0002				
9/6/2016			<0.0002			
9/7/2016				<0.0002	<0.0002	<0.0002
12/7/2016	7E-05 (J)	<0.0002	<0.0002			
12/8/2016				<0.0002	<0.0002	<0.0002
3/21/2017	<0.0002					
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002	
3/23/2017						<0.0002
7/11/2017	<0.0002		<0.0002			
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/19/2017						<0.0002
2/20/2018	<0.0002					
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)
7/11/2018	<0.0002					
7/12/2018		<0.0002	<0.0002			<0.0002
8/15/2018					<0.0002	
8/16/2018				<0.0002		
9/12/2018	<0.0002					
9/13/2018		<0.0002	<0.0002		<0.0002	
9/14/2018				<0.0002		<0.0002
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)
8/27/2020					<0.0002	
10/6/2020	<0.0002		<0.0002			
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002					<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002			
9/16/2021				<0.0002	<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002	<0.0002			
1/27/2022				<0.0002	<0.0002	<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/14/2023	<0.0002					
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002
2/16/2023				<0.0002		
9/19/2023			<0.0002			
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
Mean	0.0001887	0.0001936	0.0001917	0.0001929	0.0001911	0.0001841
Std. Dev.	3.403E-05	2.575E-05	3.3E-05	2.85E-05	3.575E-05	4.469E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	9.7E-05	6.8E-05	8.6E-05	5.7E-05	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.0002			
9/1/2016				<0.0002
9/8/2016		<0.0002		
12/7/2016	9E-05 (J)			6E-05 (J)
12/8/2016		<0.0002	<0.0002	
3/21/2017	<0.0002			
3/22/2017		<0.0002		<0.0002
3/23/2017			<0.0002	
7/11/2017	<0.0002	<0.0002		
7/12/2017			<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002		
10/19/2017			<0.0002	<0.0002
2/20/2018	<0.0002			
2/21/2018		5.3E-05 (J)	4.3E-05 (J)	5.3E-05 (J)
7/11/2018	<0.0002			
7/12/2018		<0.0002	<0.0002	<0.0002
9/13/2018	<0.0002	<0.0002		<0.0002
9/14/2018			4.1E-05 (J)	
10/4/2018			<0.0002	
8/26/2020	0.00017 (J)	<0.0002	0.00011 (J)	<0.0002
10/6/2020	<0.0002			
10/7/2020		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		
3/4/2021			<0.0002	<0.0002
9/15/2021	<0.0002	<0.0002		
9/16/2021			<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002		
1/27/2022			<0.0002	<0.0002
8/24/2022			<0.0002	
8/25/2022	<0.0002			<0.0002
10/11/2022		<0.0002		
2/14/2023	<0.0002			
2/15/2023		<0.0002		<0.0002
2/16/2023			<0.0002	
9/19/2023		<0.0002		
9/20/2023	<0.0002			<0.0002
9/21/2023			<0.0002	
Mean	0.0001912	0.0001908	0.0001746	0.0001821
Std. Dev.	2.802E-05	3.675E-05	5.641E-05	4.903E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00017	5.3E-05	0.00011	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-19	PZ-23A
8/31/2016	<0.01					<0.01
9/1/2016		<0.01				
9/6/2016			<0.01			
9/7/2016				<0.01	0.0027 (J)	
12/7/2016	<0.01	<0.01	<0.01			<0.01
12/8/2016				<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)					0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)		
3/23/2017					0.0025 (J)	
7/11/2017	<0.01		<0.01			<0.01
7/12/2017		<0.01		<0.01	0.0022 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01
10/19/2017					0.0021 (J)	
2/20/2018	<0.01					<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01					<0.01
7/12/2018		<0.01	<0.01		0.0022 (J)	
8/16/2018				<0.01		
9/12/2018	<0.01					
9/13/2018		<0.01	<0.01			<0.01
9/14/2018				<0.01	0.0023 (J)	
9/10/2019						<0.01
10/2/2019	<0.01	<0.01	<0.01	<0.01		
10/3/2019					0.0024 (X)	
3/25/2020	<0.01			<0.01		0.0011 (J)
3/26/2020		<0.01	<0.01		0.0021 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01	0.002 (J)	<0.01
10/6/2020	<0.01		<0.01			<0.01
10/7/2020		<0.01		<0.01	0.0019 (J)	
3/3/2021	<0.01				0.0021 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01		
9/15/2021	<0.01	<0.01	<0.01			<0.01
9/16/2021				<0.01	0.0021 (J)	
1/26/2022	<0.01	<0.01	<0.01			<0.01
1/27/2022				<0.01	0.0022 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	0.0017 (J)	<0.01
2/14/2023	<0.01					<0.01
2/15/2023		<0.01	<0.01		0.0016 (J)	
2/16/2023				<0.01		
9/19/2023			<0.01			
9/20/2023	<0.01	<0.01		<0.01	0.0019 (J)	<0.01
Mean	0.009472	0.009467	0.009467	0.009467	0.002289	0.008983
Std. Dev.	0.002239	0.002263	0.002263	0.002263	0.0007259	0.00296
Upper Lim.	0.01	0.01	0.01	0.01	0.0024	0.01
Lower Lim.	0.0005	0.0004	0.0004	0.0004	0.0019	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-57
9/8/2016	<0.01	
12/8/2016	<0.01	
3/22/2017	0.001 (J)	
7/11/2017	<0.01	
10/18/2017	<0.01	
2/21/2018	<0.01	
7/12/2018	<0.01	
9/13/2018	<0.01	
10/2/2019	<0.01	
3/25/2020	<0.01	
8/26/2020	<0.01	
10/7/2020	<0.01	
3/3/2021	<0.01	
9/15/2021	<0.01	
1/26/2022	<0.01	
1/27/2022		0.00085 (J)
8/24/2022	<0.01	
8/26/2022		<0.01
2/15/2023	<0.01	
2/16/2023		<0.01
9/19/2023	<0.01	
9/21/2023		<0.01
Mean	0.0095	0.007712
Std. Dev.	0.002121	0.004575
Upper Lim.	0.01	0.01
Lower Lim.	0.001	0.00085

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-19	PZ-23A	PZ-7D
8/31/2016	0.0012 (J)			0.0014 (J)	
9/1/2016		<0.005			<0.005
9/7/2016			<0.01		
12/7/2016	<0.005	<0.005		<0.01	<0.005
12/8/2016			<0.01		
3/21/2017	<0.005			<0.01	
3/22/2017		<0.005			<0.005
3/23/2017			<0.01		
7/11/2017	<0.005			<0.01	
7/12/2017		<0.005	<0.01		<0.005
10/18/2017	<0.005	<0.005		<0.01	
10/19/2017			<0.01		<0.005
2/20/2018	<0.005			<0.01	
2/21/2018		<0.005	<0.01		<0.005
7/11/2018	<0.005			<0.01	
7/12/2018		<0.005	<0.01		<0.005
9/12/2018	<0.005				
9/13/2018		<0.005		<0.01	<0.005
9/14/2018			0.0015 (J)		
9/10/2019				0.0018 (X)	
10/2/2019	0.0015 (X)	<0.005			
10/3/2019			0.0034 (X)		0.0017 (X)
3/25/2020	<0.005			0.003 (J)	
3/26/2020		<0.005	0.0016 (J)		<0.005
8/26/2020	<0.005	0.0018 (J)	0.0031 (J)	0.0026 (J)	0.0018 (J)
10/6/2020	<0.005			0.0027 (J)	
10/7/2020		<0.005	0.0035 (J)		<0.005
3/3/2021	<0.005		0.0033 (J)	0.0025 (J)	
3/4/2021		<0.005			0.0018 (J)
9/15/2021	<0.005	<0.005		0.0024 (J)	
9/16/2021			0.0033 (J)		<0.005
1/26/2022	<0.005	<0.005		0.0023 (J)	
1/27/2022			0.005		0.0018 (J)
8/25/2022	<0.005	<0.005	0.0019 (J)	0.0023 (J)	0.0017 (J)
2/14/2023	<0.005			0.0015 (J)	
2/15/2023		<0.005	0.0036 (J)		0.0017 (J)
9/20/2023	<0.005	<0.005	0.0024 (J)	0.0023 (J)	0.0015 (J)
Mean	0.004594	0.004822	0.0057	0.005267	0.003722
Std. Dev.	0.001181	0.0007542	0.003618	0.003904	0.001649
Upper Lim.	0.005	0.005	0.01	0.01	0.005
Lower Lim.	0.0015	0.0018	0.0024	0.0023	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016			<0.001			
9/7/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	<0.001			
12/8/2016				<0.001	<0.001	0.0003 (J)
3/21/2017	6E-05 (J)					
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)	
3/23/2017						0.0003 (J)
7/11/2017	<0.001		0.0002 (J)			
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)	
10/19/2017						0.0005 (J)
2/20/2018	<0.001					
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)
7/11/2018	<0.001					
7/12/2018		<0.001	<0.001			0.00077 (J)
8/15/2018					<0.001	
8/16/2018				<0.001		
9/12/2018	<0.001					
9/13/2018		<0.001	0.00017 (J)		<0.001	
9/14/2018				<0.001		0.00076 (J)
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)		
10/3/2019					<0.001	0.00071 (X)
3/25/2020	<0.001			0.0002 (J)		
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)
8/27/2020					<0.001	
10/6/2020	<0.001		<0.001			
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)
3/3/2021	<0.001					0.00072 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001			
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)
1/26/2022	<0.001	<0.001	<0.001			
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)
2/14/2023	<0.001					
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)
2/16/2023				0.00038 (J)		
9/19/2023			<0.001			
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)
Mean	0.0009478	0.0007339	0.0007224	0.0006072	0.0008423	0.0005689
Std. Dev.	0.0002216	0.0003881	0.0004052	0.0003671	0.0003629	0.000145
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0006566
Lower Lim.	6E-05	0.00022	0.0002	0.00024	7.1E-05	0.0004811

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals

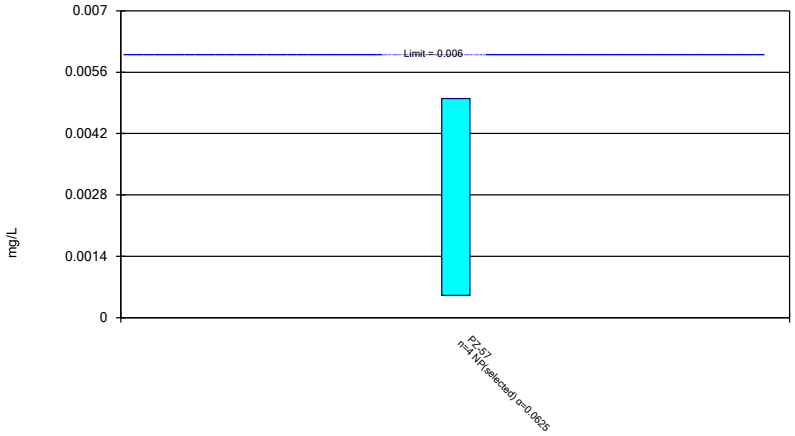
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.001			
9/1/2016				<0.001
9/8/2016		<0.001		
12/7/2016	0.0002 (J)			<0.001
12/8/2016		<0.001	<0.001	
3/21/2017	0.0003 (J)			
3/22/2017		<0.001		0.0002 (J)
3/23/2017			0.0001 (J)	
7/11/2017	0.0002 (J)	<0.001		
7/12/2017			0.0001 (J)	0.0001 (J)
10/18/2017	0.0001 (J)	<0.001		
10/19/2017			0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			
2/21/2018		<0.001	<0.001	<0.001
7/11/2018	0.00018 (J)			
7/12/2018		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001		<0.001
9/14/2018			<0.001	
10/4/2018			<0.001	
9/10/2019	<0.001			
10/2/2019		0.00024 (X)		
10/3/2019			0.00018 (X)	7.8E-05 (X)
3/25/2020	0.00015 (J)	0.00037 (J)		
3/26/2020			0.00015 (J)	8.5E-05 (J)
8/26/2020	0.00016 (J)	0.00037 (J)	<0.001	<0.001
10/6/2020	<0.001			
10/7/2020		0.00027 (J)	<0.001	<0.001
3/3/2021	0.00017 (J)	0.00036 (J)		
3/4/2021			<0.001	<0.001
9/15/2021	<0.001	0.00066 (J)		
9/16/2021			<0.001	<0.001
1/26/2022	<0.001	0.00039 (J)		
1/27/2022			<0.001	<0.001
8/24/2022		0.00048 (J)	<0.001	
8/25/2022	<0.001			<0.001
2/14/2023	<0.001			
2/15/2023		0.00045 (J)		<0.001
2/16/2023			<0.001	
9/19/2023		0.00061 (J)		
9/20/2023	<0.001			<0.001
9/21/2023			<0.001	
Mean	0.0005956	0.0006778	0.0007572	0.0007535
Std. Dev.	0.0004182	0.0003123	0.0004032	0.0004097
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.00017	0.00037	0.00015	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

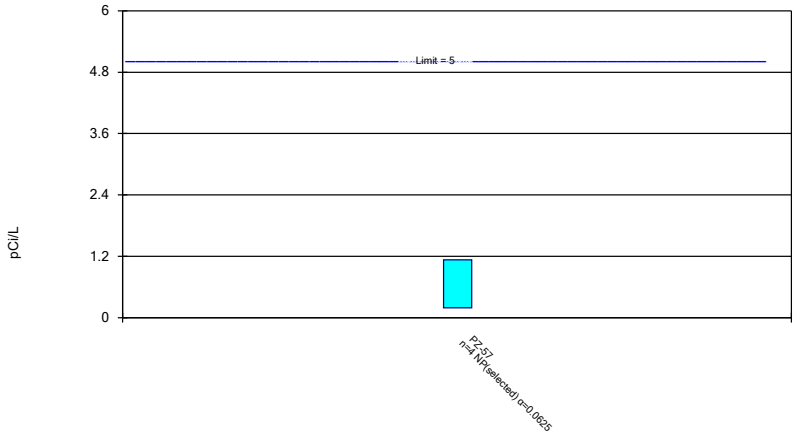
Constituent: Cobalt Analysis Run 2/14/2024 10:55 AM View: Confidence Intervals - Nonparametric

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 Software licensed to . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 2/14/2024 10:55 AM View: Confidence Intervals -

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals - Nonparametric

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-57
1/27/2022	0.0043 (J)
8/26/2022	0.0012 (J)
2/16/2023	0.00051 (J)
9/21/2023	<0.005
Mean	0.002752
Std. Dev.	0.002227
Upper Lim.	0.005
Lower Lim.	0.00051

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/14/2024 10:56 AM View: Confidence Intervals - Nonparametric

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-57
1/27/2022	1.13
8/26/2022	0.488 (U)
2/16/2023	0.193 (U)
9/21/2023	0.401 (U)
Mean	0.553
Std. Dev.	0.4041
Upper Lim.	1.13
Lower Lim.	0.193

FEBRUARY 2024 EVENT

GROUNDWATER STATS CONSULTING

July 31, 2024

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Mitchell Ash Pond
February 2024 Semi-Annual Statistical Analysis

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical analysis of groundwater data for Georgia Power Company's Plant Mitchell Ash Pond. 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 parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** PZ-1D, PZ-2D, PZ-31, and PZ-32
- **Downgradient wells:** PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-57

Note that well PZ-23 was abandoned and was replaced with well PZ-23A which was first sampled in March 2020. Since new well PZ-23A was installed in close proximity to well PZ-23, the data from the two wells were combined. Additionally, downgradient well PZ-57 was first sampled in January 2022 and has been sampled five times. Data for this well are plotted on time series and box plots, and formal statistics are conducted when a minimum of 4 samples are available for Appendix IV constituents and a minimum of 8 samples are available for Appendix III constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The Coal Combustion Residuals (CCR) program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 well/constituent pairs with 100% non-detects since 2016 for Appendix IV constituents follows this letter.

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, described below, 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 screening report to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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.

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the March 2019 evaluation for state and federal regulatory requirements described below, 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 each Appendix III constituent
- 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 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, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent 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 for parametric limits. 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 screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Summary of Initial Background Screening – Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified and the reports were submitted with the screening. In cases where the most recent value was identified as an outlier, values were not flagged in the database at that time as they may represent a future trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the values identified by Tukey's method, only a few of these values were flagged in the database as outliers since all other values were similar to remaining measurements within a given well or neighboring wells or were non-detects.

When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends, and the reports were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses were included with the previous screening and showed one statistically significant decreasing trend for chloride at well PZ-25. This trend was relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data set.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. 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.

The ANOVA identified no variation among upgradient well data for boron and fluoride, making these constituents eligible for interwell analyses. Variation was noted for calcium, chloride, pH, sulfate and TDS. 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.

Statistical Analysis of Appendix III Parameters – February 2024 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed using time series for potential outliers during this analysis. No additional values were flagged as outliers and a summary of previously flagged outliers follows this report (Figure C). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the time series graphs.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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. A summary table of the interwell prediction limits follows this letter. The following interwell prediction limit exceedances were noted for the Appendix III parameters:

- Boron: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- Calcium: PZ-18, PZ-19, and PZ-23A
- Chloride: PZ-15 and PZ-16
- pH (lower limit): PZ-18, PZ-19, and PZ-23A

- Sulfate: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-14, PZ-15, PZ-18, PZ-19, PZ-23A, PZ-33, and PZ-7D

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level 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 variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:
- Calcium: PZ-1D, PZ-31, PZ-32 (all three upgradient), and PZ-18
- Sulfate: PZ-14

Decreasing:
- Boron: PZ-17, PZ-25, PZ-33, and PZ-7D
- Chloride: PZ-31 (upgradient), PZ-15, and PZ-16
- Sulfate: PZ-2D, PZ-31 (both upgradient), PZ-16, PZ-17, PZ-19, PZ-25, PZ-33, and PZ-7D
- TDS: PZ-33 and PZ-7D

Statistical Analysis of Appendix IV Parameters – February 2024

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. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2024 for each Appendix IV

constituent (Figure F). Parametric limits are constructed when data follow a normal or transformed-normal distribution with a target of 95% confidence and 95% coverage, such as the case for barium and combined radium 226 + 228. When data contain greater than 50% non-detects or do not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement.

Groundwater Protection Standards

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). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the 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, Federal and State CCR Rules specify levels 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

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents using data through February 2024 in accordance with the state requirements in each downgradient well (Figure H). As mentioned above, well/constituent pairs containing 100% non-detects did not require analysis. All downgradient wells contained 100% non-detects for beryllium; therefore, this constituent was not analyzed with confidence intervals.

The Sanitas software was used to calculate the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix

IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Due to the sample size, the lower confidence limits resulted in negative numbers for combined radium 226 + 228 at downgradient well PZ-57. Therefore, non-parametric confidence intervals, which are bound by reported high and low measurements within a given well, were constructed for these particular cases and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest reported measurement in the data set rather than a negative number.

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. No exceedances were identified and summaries and graphical results of the confidence intervals analyses follow this letter.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Since no confidence interval exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Mitchell Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/11/2024 11:52 AM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L)
PZ-25, PZ-57

Arsenic (mg/L)
PZ-16, PZ-18, PZ-57, PZ-7D

Beryllium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-57, PZ-7D

Cadmium (mg/L)
PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-25, PZ-57, PZ-7D

Chromium (mg/L)
PZ-15, PZ-17, PZ-25

Cobalt (mg/L)
PZ-7D

Lead (mg/L)
PZ-14, PZ-17, PZ-25, PZ-57

Lithium (mg/L)
PZ-16, PZ-33

Mercury (mg/L)
PZ-57

Molybdenum (mg/L)
PZ-18, PZ-33, PZ-7D

Selenium (mg/L)
PZ-16, PZ-17, PZ-18, PZ-25, PZ-33, PZ-57

Thallium (mg/L)
PZ-57

Appendix III - Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02696	n/a	2/28/2024	0.2	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02696	n/a	2/29/2024	0.18	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02696	n/a	2/29/2024	0.13	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02696	n/a	2/29/2024	0.35	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02696	n/a	2/29/2024	0.43	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02696	n/a	2/28/2024	0.12	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02696	n/a	2/27/2024	0.17	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02696	n/a	2/29/2024	0.32	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02696	n/a	2/28/2024	0.17	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	110	n/a	2/29/2024	152	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	110	n/a	2/29/2024	146	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	110	n/a	2/28/2024	144	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	5	n/a	2/28/2024	5.9	Yes	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-16	5	n/a	2/29/2024	5.9	Yes	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	2/29/2024	6.94	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	2/29/2024	6.82	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	2/28/2024	6.79	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	5.976	n/a	2/29/2024	13.3	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	5.976	n/a	2/28/2024	77.4	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	5.976	n/a	2/29/2024	37.9	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	5.976	n/a	2/29/2024	45.4	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	5.976	n/a	2/29/2024	92.7	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	5.976	n/a	2/29/2024	71.5	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	5.976	n/a	2/28/2024	33.5	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	5.976	n/a	2/27/2024	34	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	5.976	n/a	2/29/2024	32.2	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	5.976	n/a	2/28/2024	40.3	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	307.4	n/a	2/29/2024	308	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	307.4	n/a	2/28/2024	342	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	307.4	n/a	2/29/2024	473	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	307.4	n/a	2/29/2024	470	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	307.4	n/a	2/28/2024	430	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	307.4	n/a	2/29/2024	314	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	307.4	n/a	2/28/2024	325	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02696	n/a	2/29/2024	0.03J	No	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02696**	**n/a**	**2/28/2024**	**0.2**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02696**	**n/a**	**2/29/2024**	**0.18**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02696**	**n/a**	**2/29/2024**	**0.13**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02696**	**n/a**	**2/29/2024**	**0.35**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02696**	**n/a**	**2/29/2024**	**0.43**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02696**	**n/a**	**2/28/2024**	**0.12**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02696**	**n/a**	**2/27/2024**	**0.17**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02696**	**n/a**	**2/29/2024**	**0.32**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02696**	**n/a**	**2/28/2024**	**0.17**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	110	n/a	2/29/2024	103	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	110	n/a	2/28/2024	95.4	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	110	n/a	2/29/2024	89.9	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	110	n/a	2/29/2024	87.8	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**110**	**n/a**	**2/29/2024**	**152**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**110**	**n/a**	**2/29/2024**	**146**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**110**	**n/a**	**2/28/2024**	**144**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	110	n/a	2/27/2024	94.6	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	110	n/a	2/29/2024	100	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	110	n/a	2/28/2024	104	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	5	n/a	2/29/2024	4.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	**PZ-15**	**5**	**n/a**	**2/28/2024**	**5.9**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**PZ-16**	**5**	**n/a**	**2/29/2024**	**5.9**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	PZ-17	5	n/a	2/29/2024	2.4	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-18	5	n/a	2/29/2024	4.1	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-19	5	n/a	2/29/2024	3.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-23A	5	n/a	2/28/2024	3.6	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-25	5	n/a	2/27/2024	1.5	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-33	5	n/a	2/29/2024	2.7	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-7D	5	n/a	2/28/2024	3.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	2/28/2024	0.059J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	2/29/2024	0.068J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	2/29/2024	0.078J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	2/28/2024	0.07J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	2/27/2024	0.13	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	2/29/2024	0.068J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	2/28/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	2/29/2024	7.07	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	2/28/2024	7.18	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	2/29/2024	7.19	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	2/29/2024	7.2	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**2/29/2024**	**6.94**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**2/29/2024**	**6.82**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**2/28/2024**	**6.79**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	2/27/2024	7.13	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	2/29/2024	7.14	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	2/28/2024	7.07	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**5.976**	**n/a**	**2/29/2024**	**13.3**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**5.976**	**n/a**	**2/28/2024**	**77.4**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**5.976**	**n/a**	**2/29/2024**	**37.9**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**5.976**	**n/a**	**2/29/2024**	**45.4**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**5.976**	**n/a**	**2/29/2024**	**92.7**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**5.976**	**n/a**	**2/29/2024**	**71.5**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**5.976**	**n/a**	**2/28/2024**	**33.5**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**5.976**	**n/a**	**2/27/2024**	**34**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**5.976**	**n/a**	**2/29/2024**	**32.2**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**5.976**	**n/a**	**2/28/2024**	**40.3**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-14**	**307.4**	**n/a**	**2/29/2024**	**308**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-15**	**307.4**	**n/a**	**2/28/2024**	**342**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	307.4	n/a	2/29/2024	292	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	307.4	n/a	2/29/2024	277	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-18**	**307.4**	**n/a**	**2/29/2024**	**473**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**307.4**	**n/a**	**2/29/2024**	**470**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**307.4**	**n/a**	**2/28/2024**	**430**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-25	307.4	n/a	2/27/2024	287	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	**PZ-33**	**307.4**	**n/a**	**2/29/2024**	**314**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-7D**	**307.4**	**n/a**	**2/28/2024**	**325**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Appendix III - Trend Test Summary - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-17**	**-0.02393**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-25**	**-0.006207**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-33**	**-0.01092**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.02781**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.556**	**114**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-1D (bg)**	**1.538**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**1.86**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.475**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2161**	**-96**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.2842**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2483**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.601**	**126**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.177**	**-126**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.807**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-19**	**-1.694**	**-98**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.323**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.4785**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.6982**	**-130**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-11.17**	**-155**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.31**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-33**	**-27.09**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-11.41**	**-91**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002531	-39	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-9	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-17**	**-0.02393**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-18	0	13	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01774	-59	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0006342	39	74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.0042	-63	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-25**	**-0.006207**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-2D (bg)	-0.0009057	-54	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0.0002323	16	74	No	19	26.32	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-5	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-33**	**-0.01092**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.02781**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.556**	**114**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.9233	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-1D (bg)**	**1.538**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-23A	1.084	34	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	0.7454	25	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**1.86**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.475**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2161**	**-96**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.2842**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06016	-64	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03578	-46	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2483**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1064	-72	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01886	-58	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.008614	20	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.0192	-68	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	45	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1075	-29	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.0077	28	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.601**	**126**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.07935	1	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.177**	**-126**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.807**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-18	-0.5041	-30	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.694**	**-98**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	-0.04614	-37	-74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	2.416	71	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-25**	**-2.323**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.4785**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.6982**	**-130**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.04843	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.17**	**-155**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.31**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-14	-0.7803	-9	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	3.75	40	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	5.117	56	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-3.285	-15	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.769	40	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	3.259	56	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	1.333	8	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.7046	20	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	3.391	54	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-33**	**-27.09**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-11.41**	**-91**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 4/14/2024, 4:47 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	76	n/a	n/a	55.26	n/a	n/a	0.02028	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter(NDs)
Barium (mg/L)	0.04468	n/a	76	-4.445	0.6785	1.316	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	60	n/a	n/a	96.67	n/a	n/a	0.04607	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	60	n/a	n/a	100	n/a	n/a	0.04607	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	76	n/a	n/a	27.63	n/a	n/a	0.02028	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	76	n/a	n/a	96.05	n/a	n/a	0.02028	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.61	n/a	74	0.7166	0.2796	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	80	n/a	n/a	45	n/a	n/a	0.01652	NP Inter(normality)
Lead (mg/L)	0.001	n/a	76	n/a	n/a	82.89	n/a	n/a	0.02028	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	76	n/a	n/a	80.26	n/a	n/a	0.02028	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	68	n/a	n/a	91.18	n/a	n/a	0.03056	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	76	n/a	n/a	75	n/a	n/a	0.02028	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	76	n/a	n/a	100	n/a	n/a	0.02028	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	76	n/a	n/a	90.79	n/a	n/a	0.02028	NP Inter(NDs)

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.045	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.61	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals Summary Table - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 7/16/2024, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	19	0.002863	0.0005965	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	19	0.002769	0.0006934	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	19	0.002862	0.0006034	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	19	0.002519	0.0009597	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No	19	0.002905	0.000518	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	19	0.002865	0.0005873	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	19	0.002794	0.000656	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	19	0.002747	0.000762	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00089	0.006	No	19	0.002469	0.001063	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	17	0.004755	0.001011	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	17	0.00427	0.001628	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	17	0.004242	0.001687	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.0017	0.01	No	17	0.004061	0.001757	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	17	0.004508	0.001389	88.24	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02779	0.01547	2	No	19	0.02278	0.01297	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0617	0.048	2	No	19	0.058	0.01421	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.046	0.034	2	No	19	0.04168	0.01244	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07712	0.06639	2	No	19	0.07175	0.009158	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	19	0.029	0.01219	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05757	0.05211	2	No	19	0.05484	0.00466	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04714	0.03637	2	No	19	0.04243	0.01015	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	19	0.1064	0.008393	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.0753	0.04	2	No	18	0.05683	0.01597	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-57	0.14	0.052	2	No	5	0.0762	0.03599	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-7D	0.0097	0.006	2	No	19	0.007947	0.002252	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	15	0.00046	0.0001056	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	15	0.0004733	0.0001033	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0012	0.1	No	19	0.003271	0.001887	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No	19	0.003122	0.002043	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	19	0.004766	0.001019	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	19	0.004775	0.0009796	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.0044	0.0015	0.1	No	19	0.003263	0.003084	15.79	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	19	0.004826	0.0007571	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-57	0.005	0.0013	0.1	No	5	0.0039	0.001649	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	PZ-7D	0.00198	0.0008103	0.1	No	19	0.004068	0.003748	26.32	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	19	0.004595	0.001247	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0012	0.006	No	19	0.003842	0.001997	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No	19	0.003612	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	19	0.004795	0.0008947	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	19	0.004584	0.001246	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00067	0.006	No	19	0.003834	0.002007	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0017	0.001	0.006	No	19	0.001545	0.0009209	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0008	0.006	No	19	0.003833	0.001911	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-57	0.00508	0.0001122	0.006	No	5	0.003202	0.002175	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.8519	0.3236	5	No	19	0.643	0.5279	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.006	0.712	5	No	19	0.8855	0.3064	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8052	0.424	5	No	19	0.6146	0.3255	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.087	0.5705	5	No	18	0.8286	0.4266	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.077	0.4547	5	No	17	0.766	0.4968	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.257	0.7336	5	No	19	0.9953	0.4469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.104	0.6305	5	No	19	0.8671	0.404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.131	0.7177	5	No	19	0.9243	0.3528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9571	0.563	5	No	19	0.7601	0.3365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-57	1.13	0.193	5	No	5	0.5824	0.3561	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6529	0.2875	5	No	19	0.4702	0.3121	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.07	4	No	20	0.09035	0.02348	65	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 7/16/2024, 3:37 PM

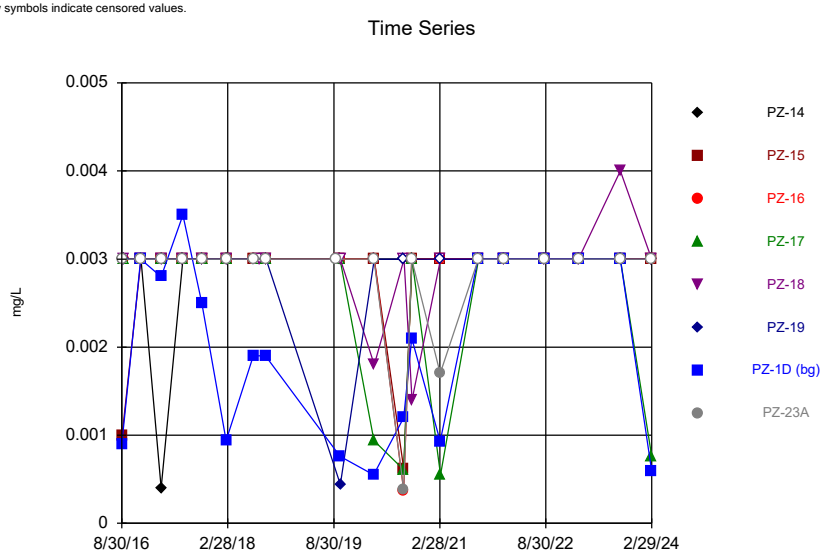
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.1086	0.06633	4	No	20	0.1008	0.04404	30	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	20	0.0837	0.02381	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1151	0.05899	4	No	20	0.1112	0.06064	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.086	4	No	20	0.09955	0.03199	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.1264	0.07366	4	No	20	0.1097	0.07127	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.08906	0.05632	4	No	20	0.0951	0.05401	35	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2264	0.1476	4	No	20	0.187	0.06944	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.1012	0.05609	4	No	20	0.1008	0.03973	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-57	0.08834	0.05486	4	No	5	0.0716	0.00999	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-7D	0.1	0.056	4	No	20	0.0876	0.02979	65	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	19	0.00095	0.0002179	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	19	0.0009516	0.0002108	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	19	0.0009196	0.0002494	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	19	0.0009496	0.0002198	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	19	0.0008555	0.0003433	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	19	0.0009019	0.0002938	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	19	0.0009495	0.00022	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	19	0.02858	0.006194	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	19	0.01034	0.01372	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	19	0.006595	0.01042	15.79	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0025	0.04	No	19	0.005211	0.007006	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01419	0.01086	0.04	No	19	0.01253	0.002841	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	19	0.02084	0.01386	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006831	0.005714	0.04	No	19	0.006216	0.001037	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-57	0.03	0.00082	0.04	No	5	0.007002	0.01286	20	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-7D	0.0037	0.0023	0.04	No	19	0.009311	0.02802	5.263	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	17	0.0001894	0.00003307	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	17	0.0001922	0.00003201	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	17	0.0001933	0.00002765	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	17	0.0001916	0.00003468	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	17	0.000185	0.00004345	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	17	0.0001918	0.00002721	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	17	0.0001761	0.00005496	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	17	0.0001831	0.00004767	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	19	0.0095	0.002179	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0024	0.0019	0.1	No	19	0.002263	0.0007143	5.263	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	19	0.009037	0.002886	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	19	0.009526	0.002065	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-57	0.01	0.00085	0.1	No	5	0.00817	0.004092	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	19	0.004616	0.001152	89.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	19	0.004832	0.0007341	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0024	0.05	No	19	0.005626	0.003531	36.84	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.01	0.0018	0.05	No	19	0.005084	0.003876	36.84	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	19	0.003626	0.001657	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	19	0.0009505	0.0002157	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	19	0.0007479	0.000382	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	19	0.000737	0.0003989	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00024	0.002	No	19	0.0006279	0.0003679	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	19	0.0008506	0.0003546	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006483	0.0004822	0.002	No	19	0.0005653	0.0001418	5.263	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00017	0.002	No	19	0.0006168	0.0004168	52.63	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	19	0.0006763	0.0003035	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	19	0.00077	0.0003958	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0002	0.002	No	19	0.0007665	0.0004022	73.68	None	No	0.01	NP (NDs)

Table of Contents

Figure A. Time Series	22
Figure B. Box Plots	111
Figure C. Outlier Summary	123
Figure D. Appendix III Interwell Prediction Limits	125
Figure E. Appendix III Trend Tests	159
Figure F. Upper Tolerance Limits	177
Figure G. Groundwater Protection Standards	187
Figure H. Confidence Intervals	189

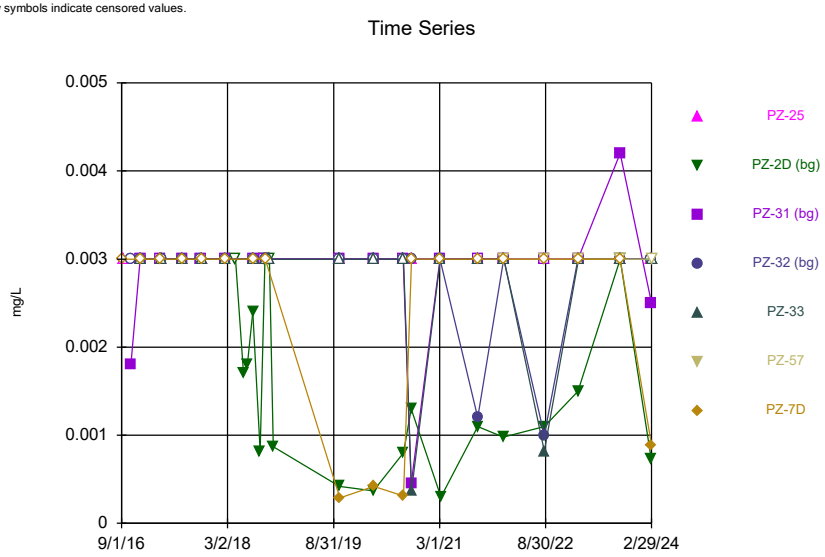
FIGURE A.

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



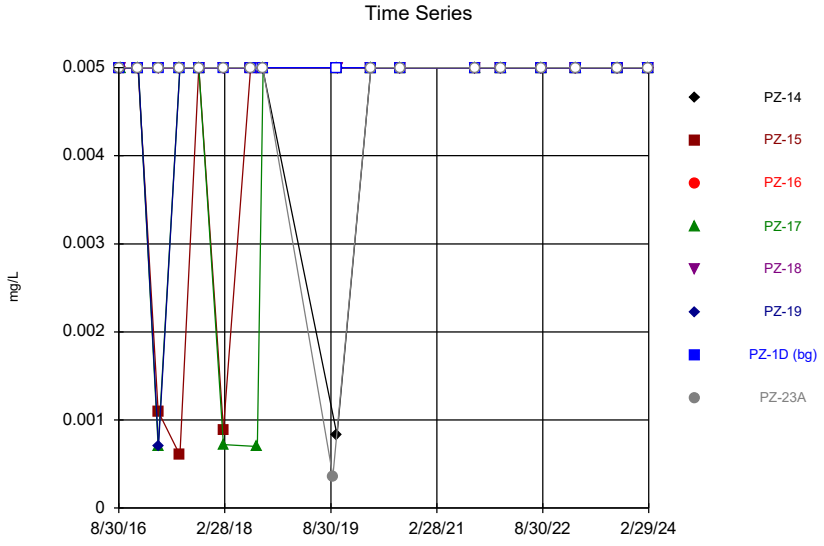
Constituent: Antimony Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



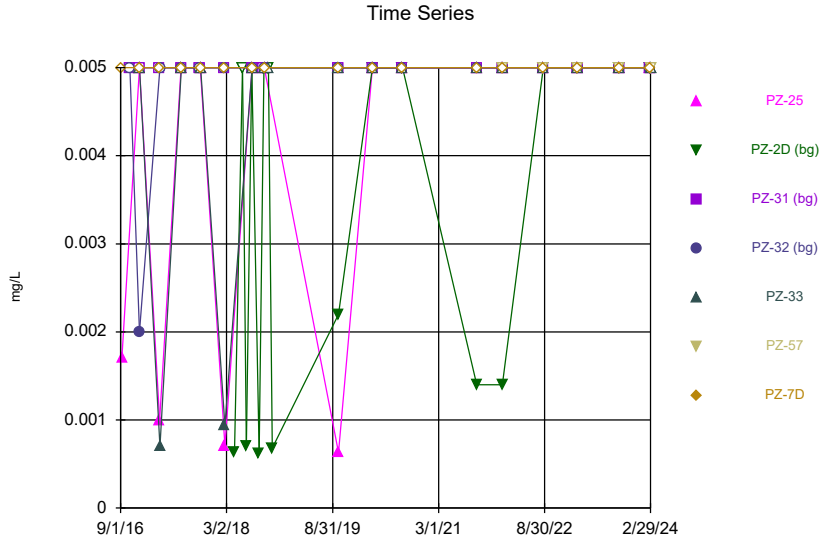
Constituent: Antimony Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Arsenic Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

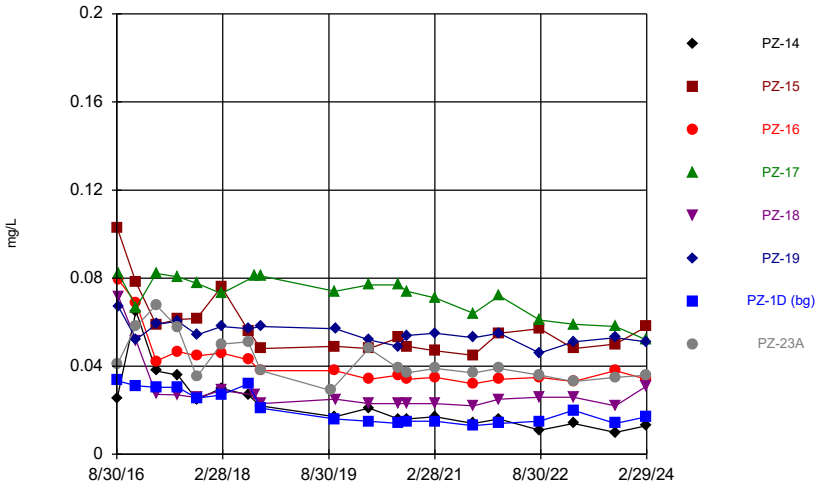
Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Arsenic Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series



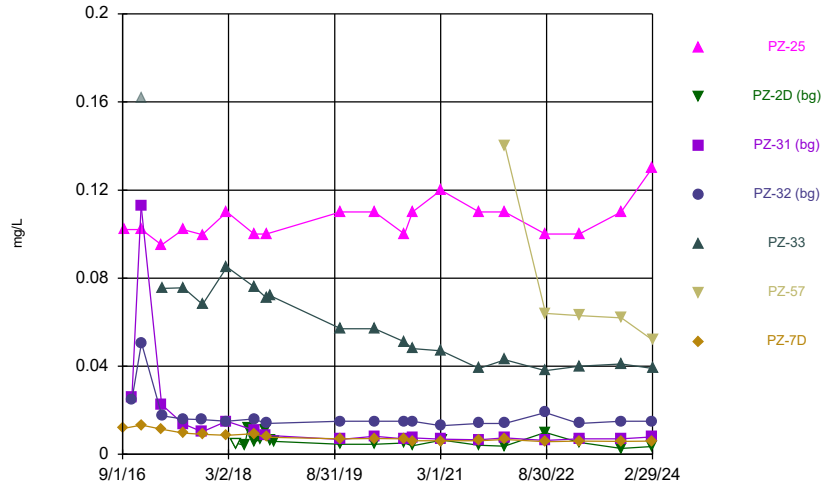
Constituent: Barium Analysis Run 4/10/2024 1:22 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series



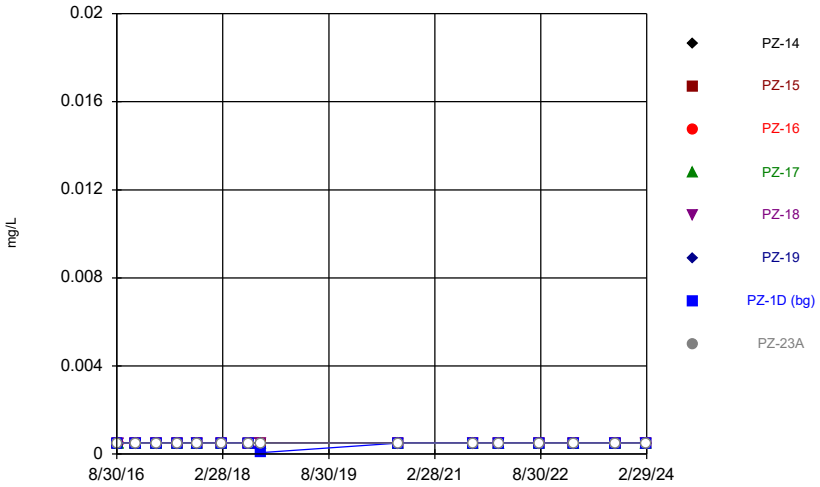
Constituent: Barium Analysis Run 4/10/2024 1:22 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series



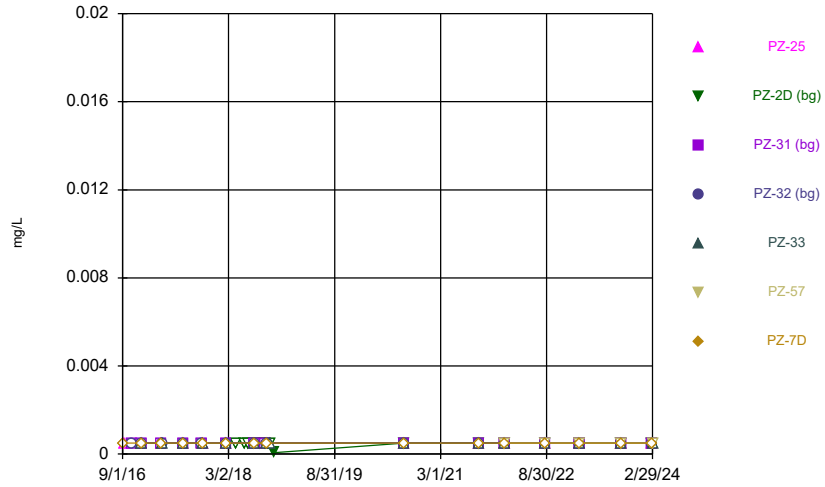
Constituent: Beryllium Analysis Run 4/10/2024 1:22 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series

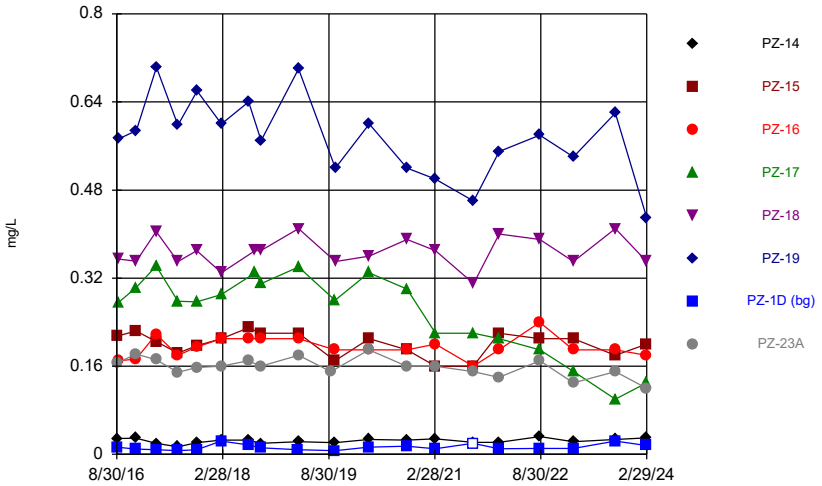


Constituent: Beryllium Analysis Run 4/10/2024 1:22 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

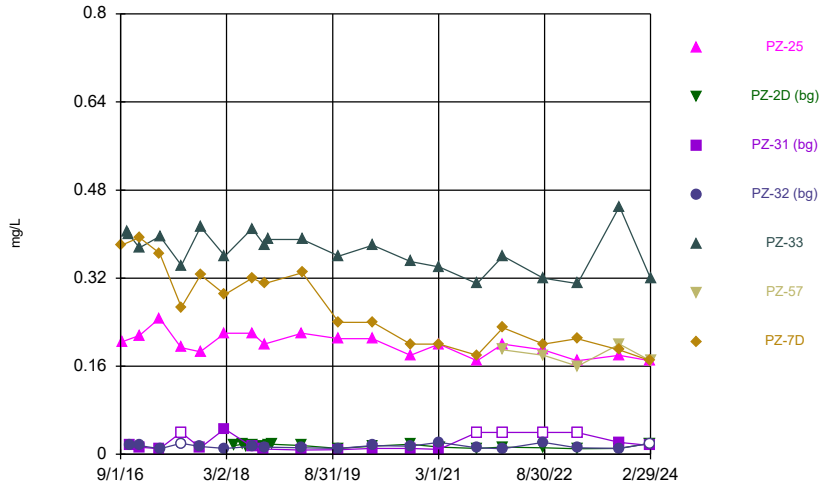
Time Series



Constituent: Boron Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

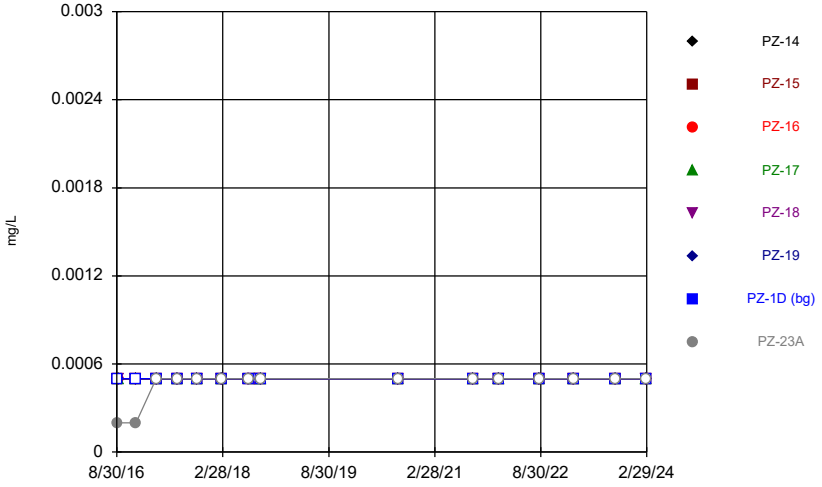
Time Series



Constituent: Boron Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

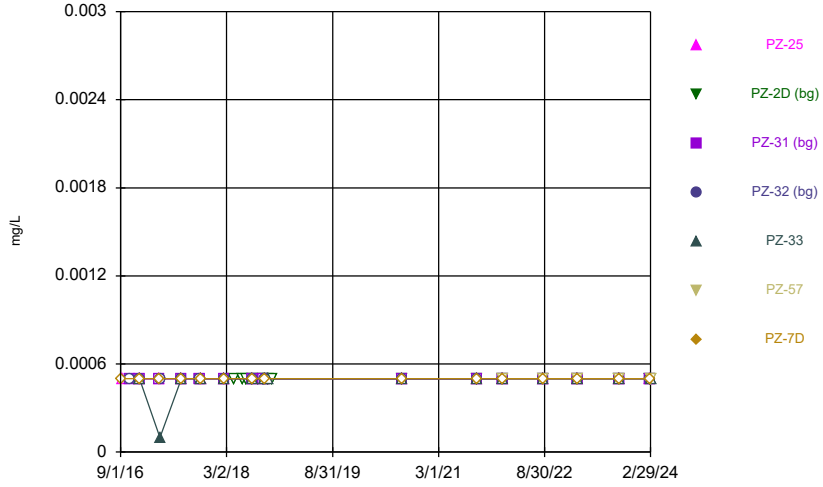
Time Series



Constituent: Cadmium Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

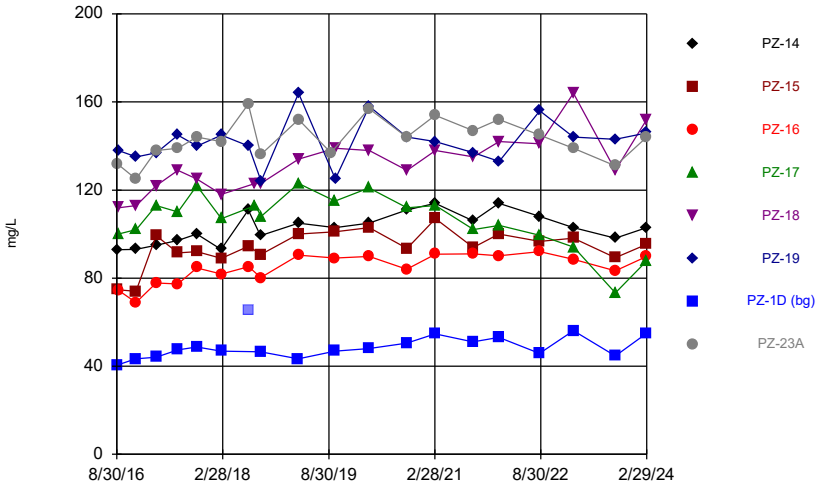
Time Series



Constituent: Cadmium Analysis Run 4/10/2024 1:22 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series



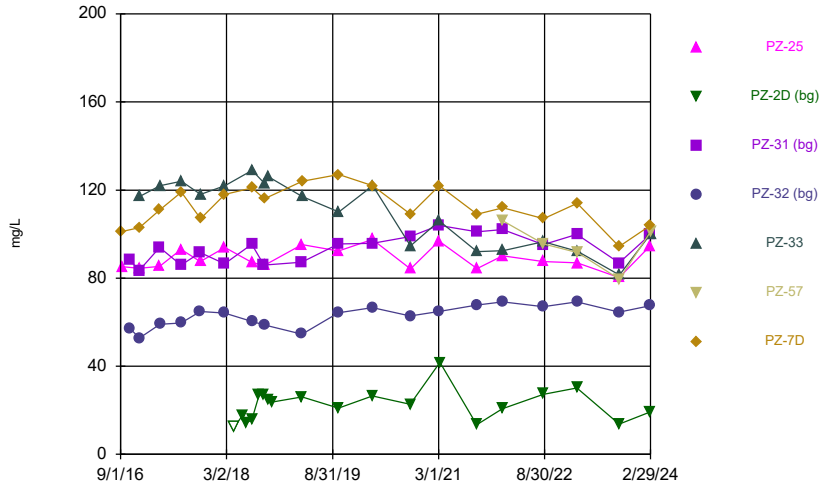
Constituent: Calcium Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series

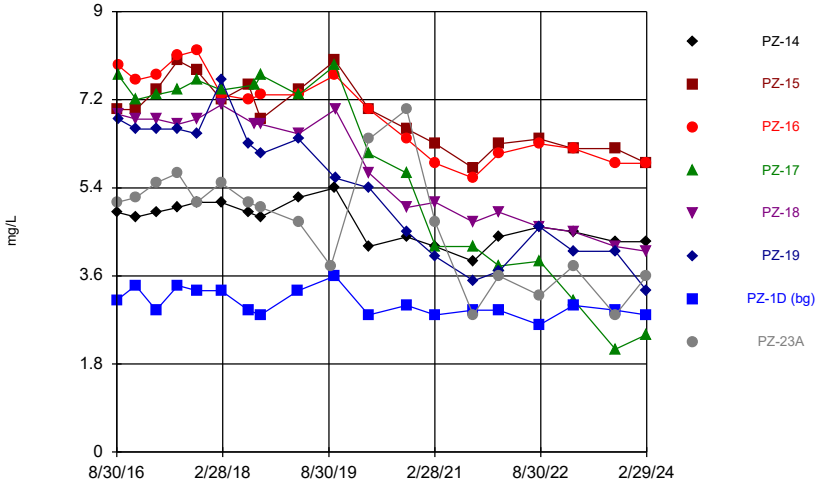


Constituent: Calcium Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series

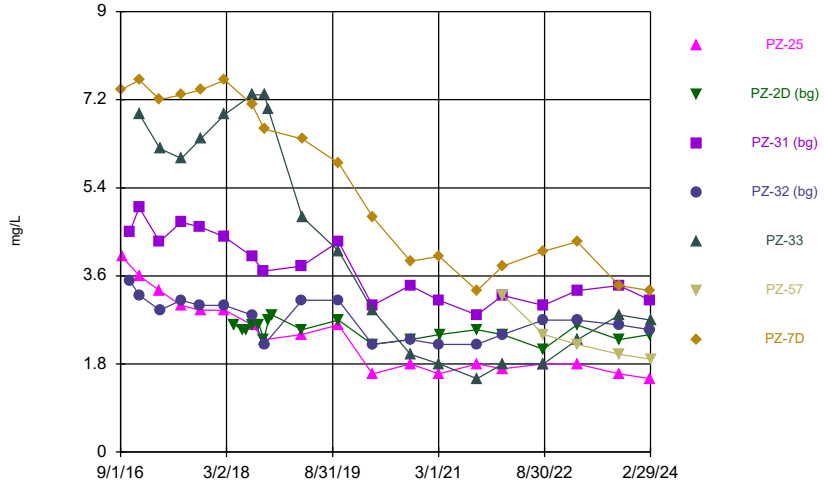


Constituent: Chloride Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

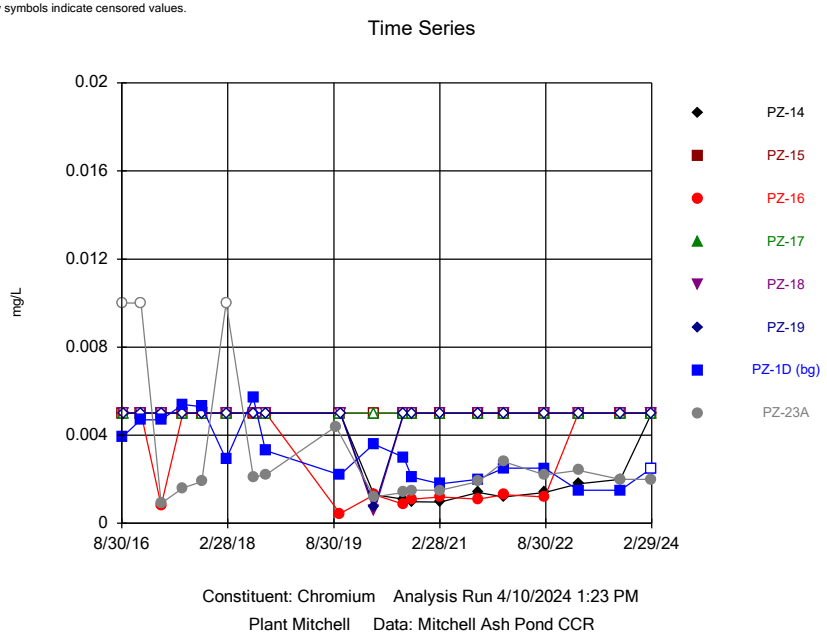
Time Series



Constituent: Chloride Analysis Run 4/10/2024 1:23 PM

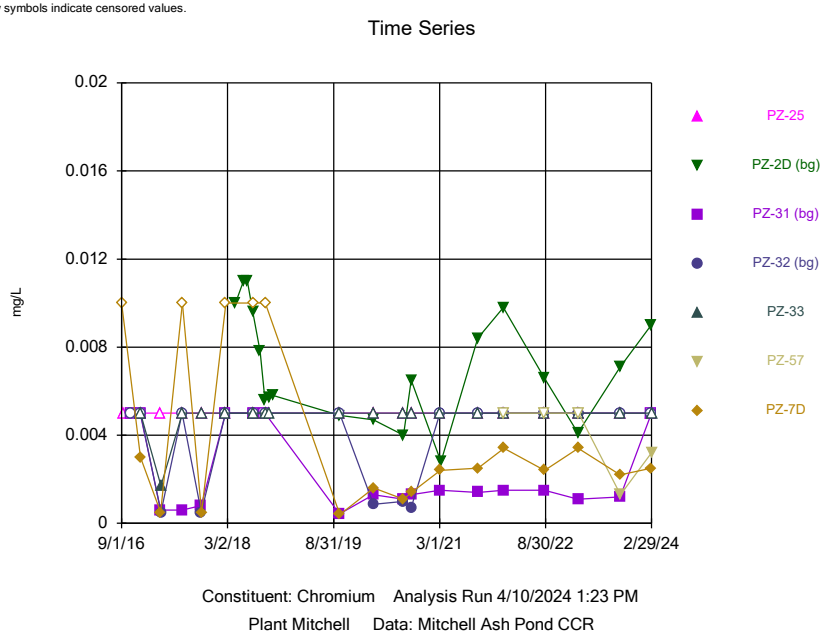
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



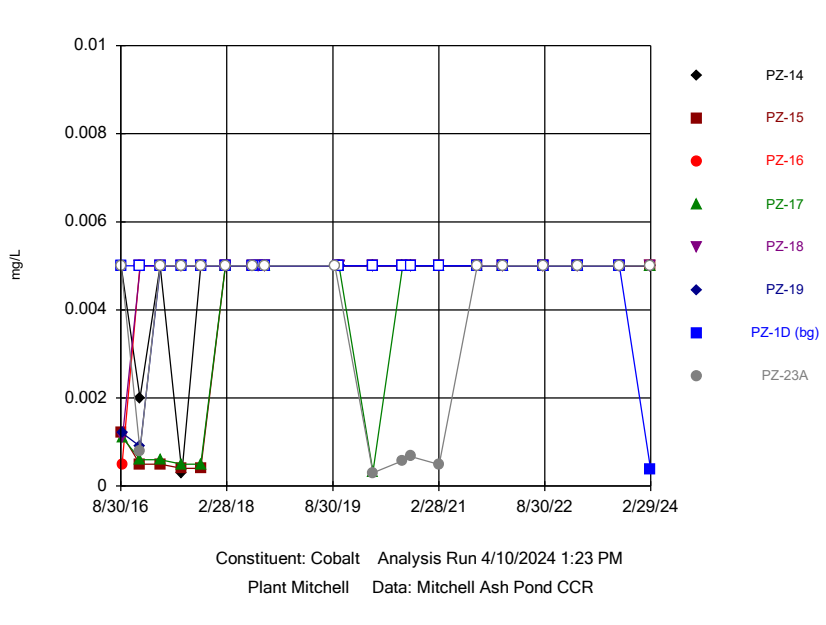
Constituent: Chromium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



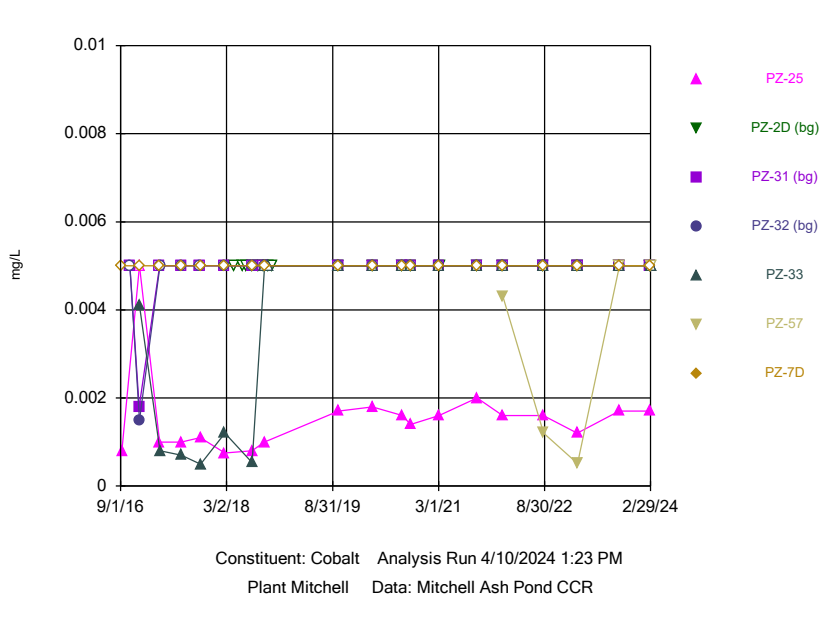
Constituent: Chromium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

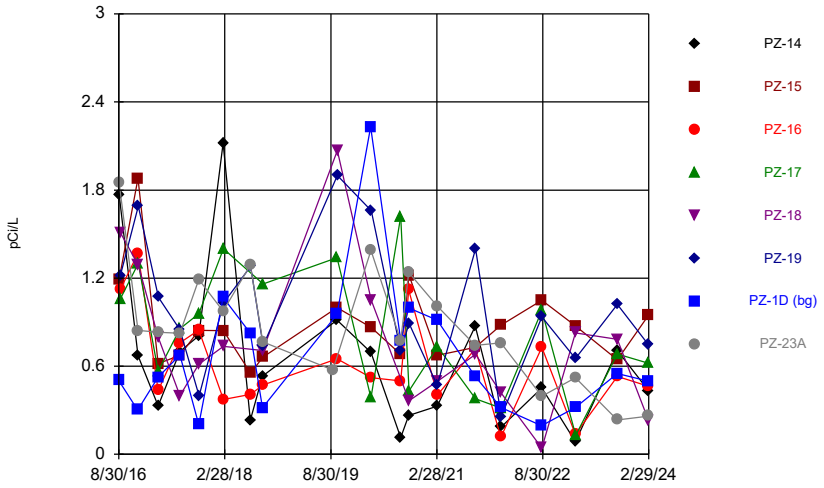
Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series

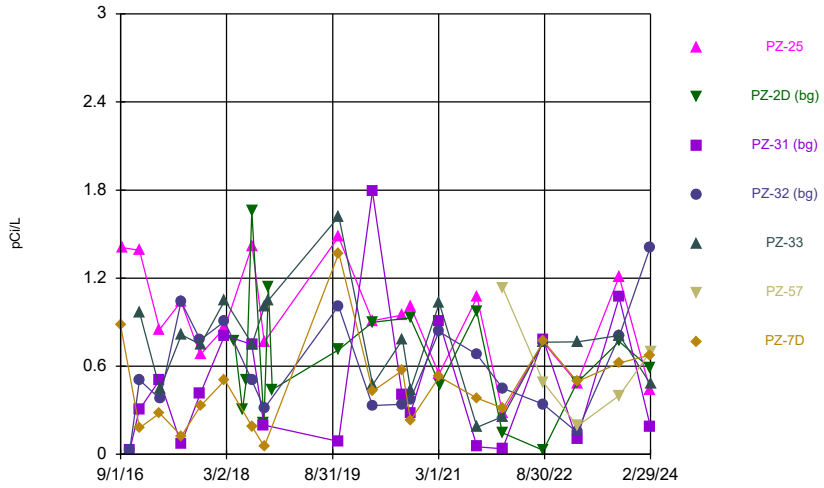


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series



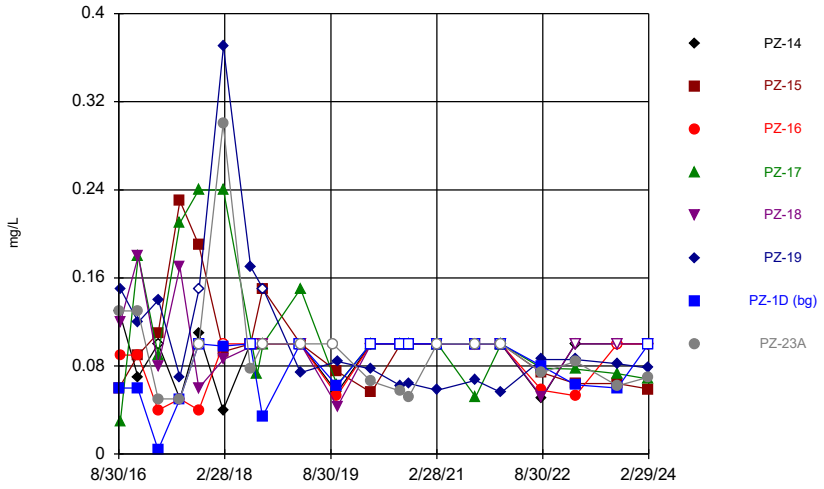
Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series



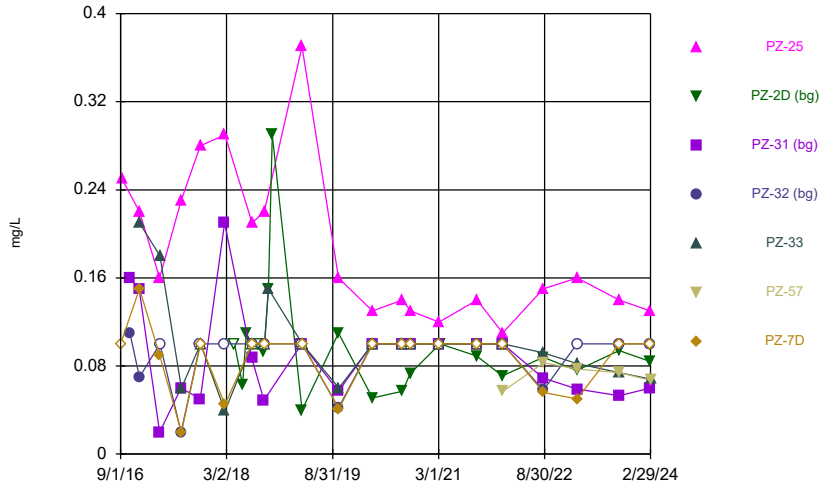
Constituent: Fluoride Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series

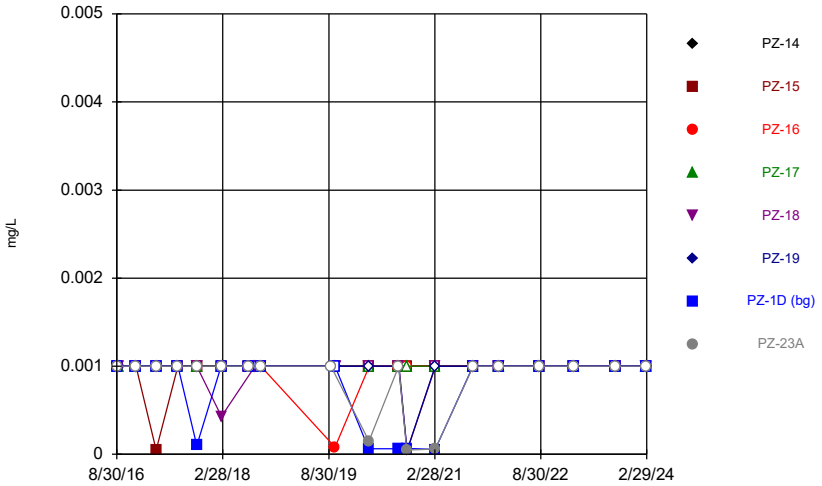


Constituent: Fluoride Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

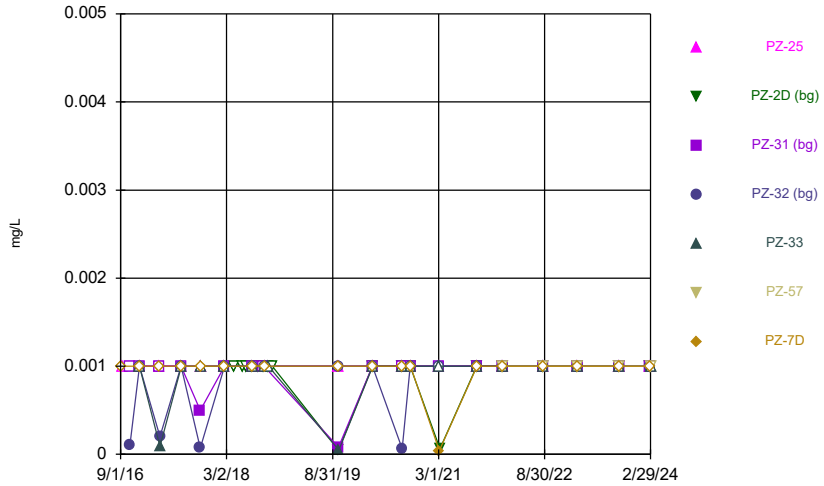
Time Series



Constituent: Lead Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

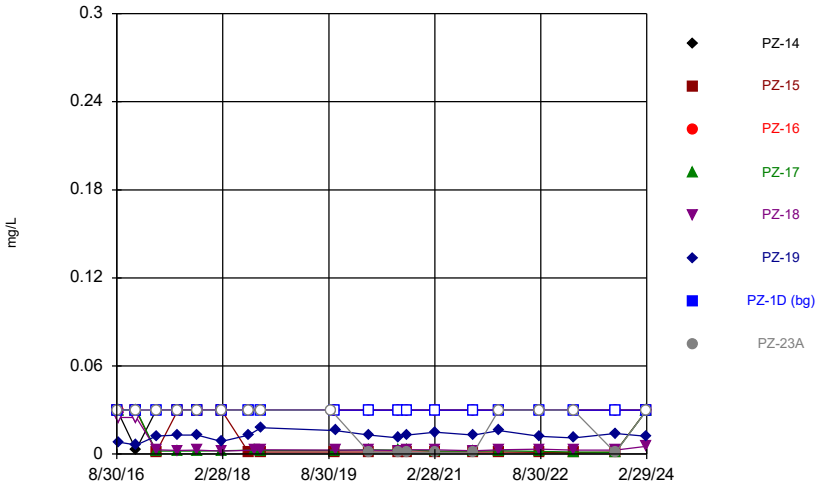
Time Series



Constituent: Lead Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

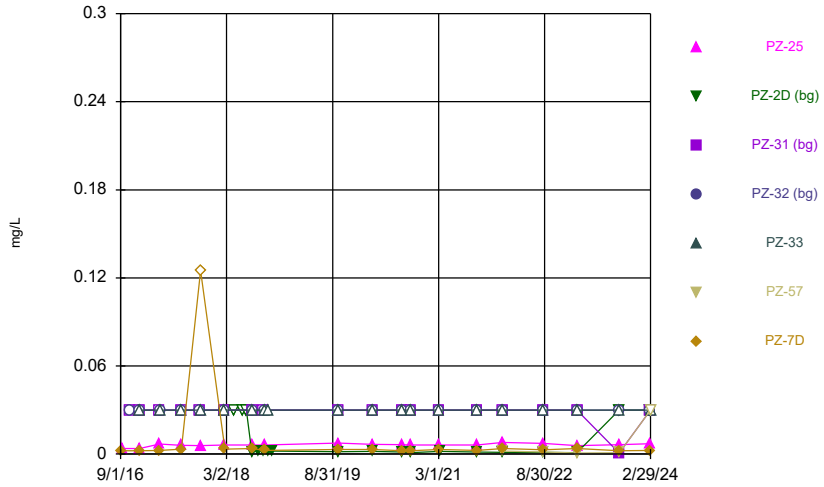
Time Series



Constituent: Lithium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

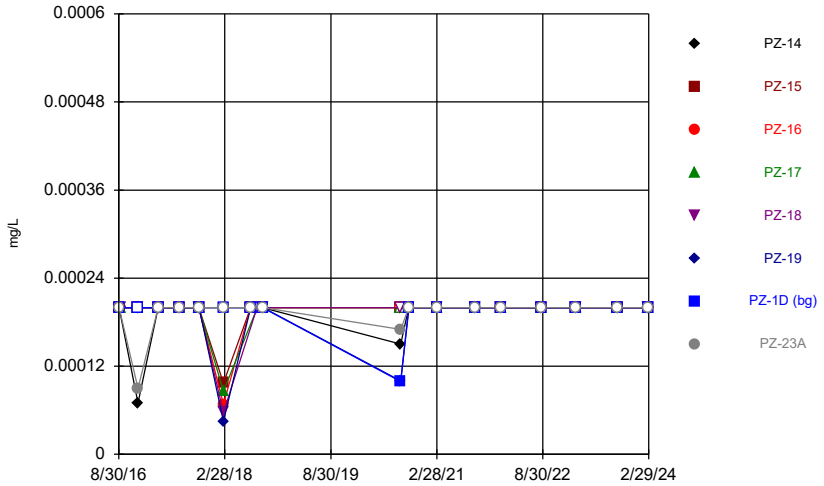
Time Series



Constituent: Lithium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

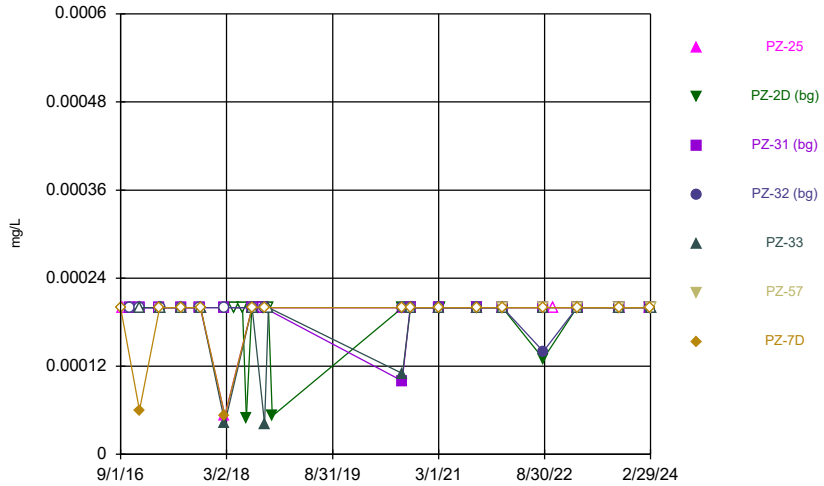
Time Series



Constituent: Mercury Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

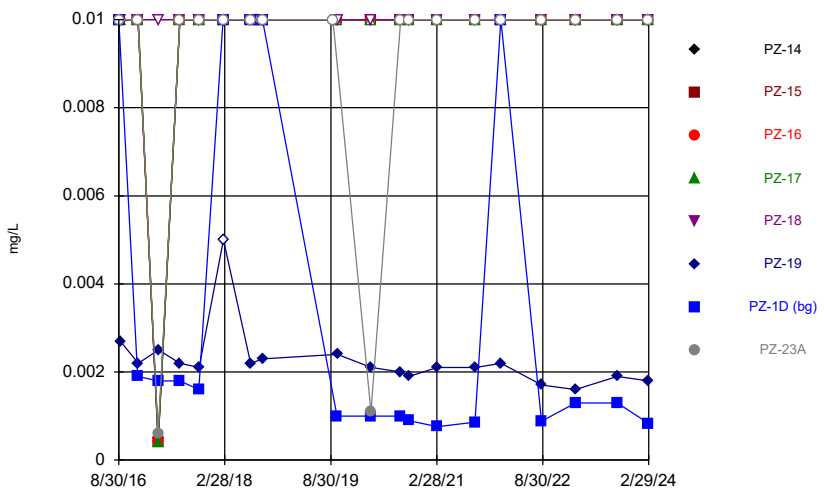
Time Series



Constituent: Mercury Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

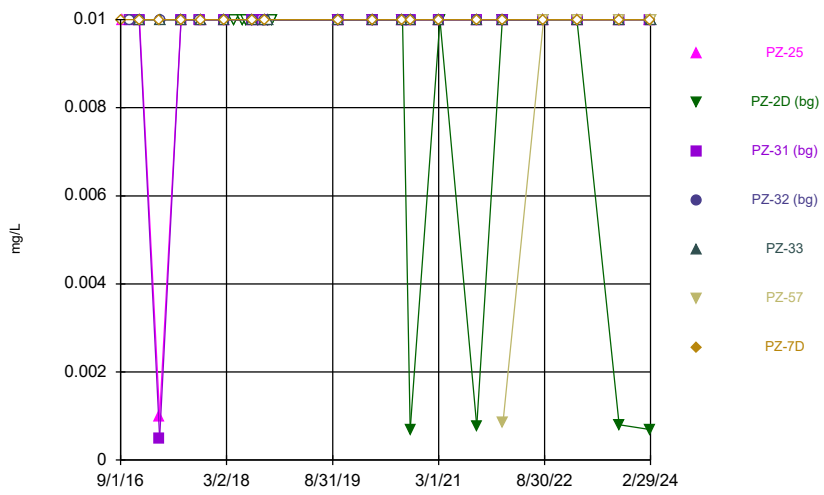
Time Series



Constituent: Molybdenum Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

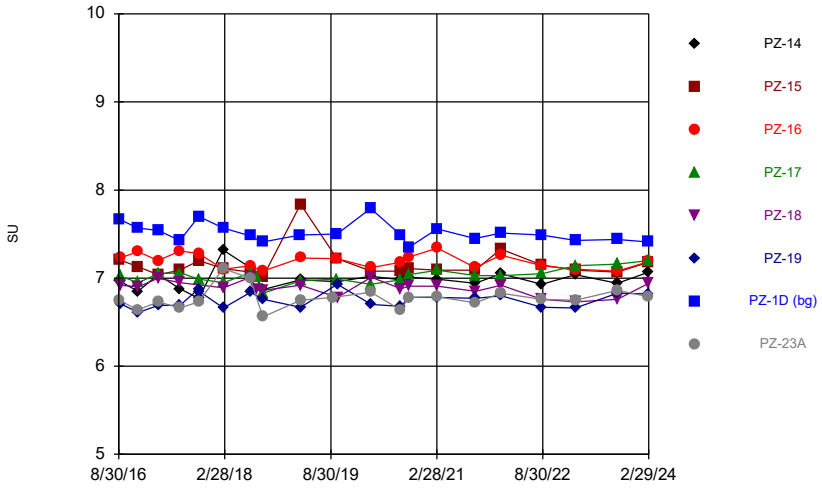
Time Series



Constituent: Molybdenum Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series

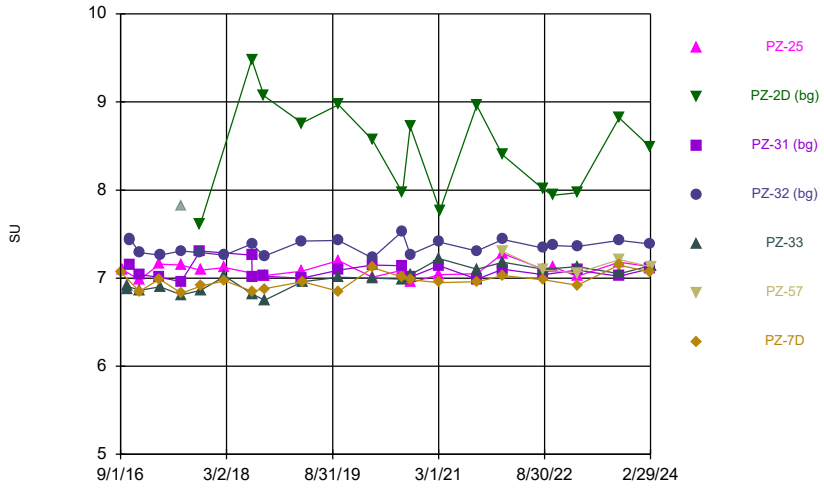


Constituent: pH Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Time Series



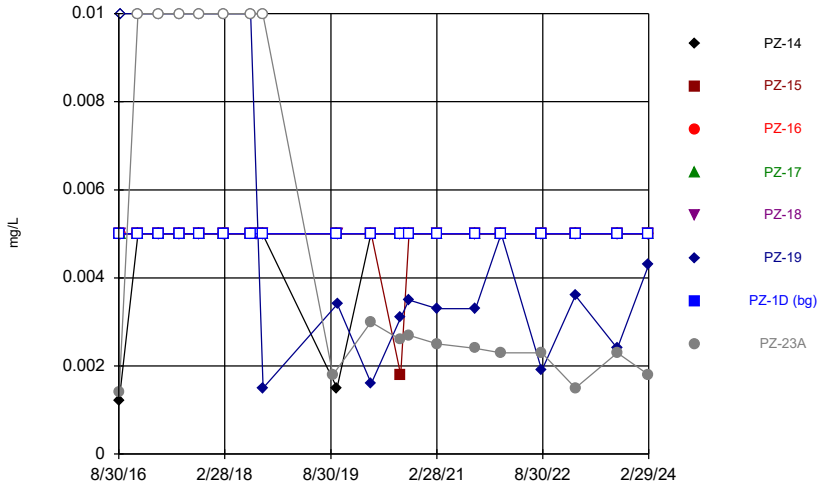
Constituent: pH Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series



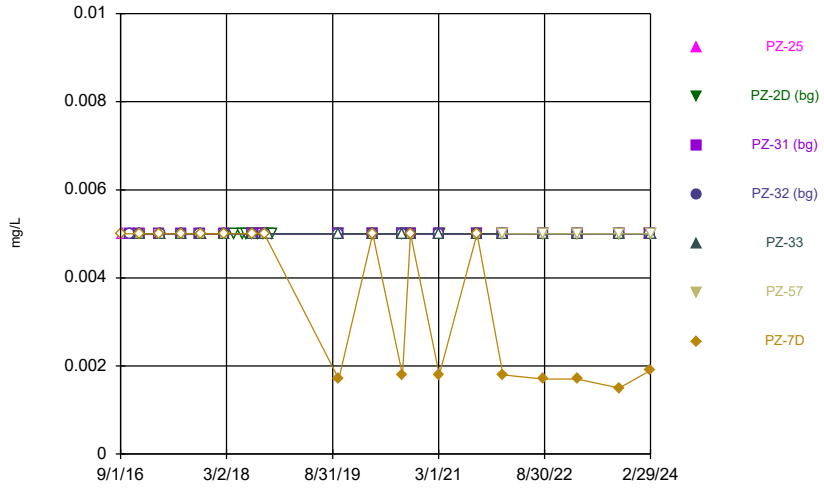
Constituent: Selenium Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Time Series

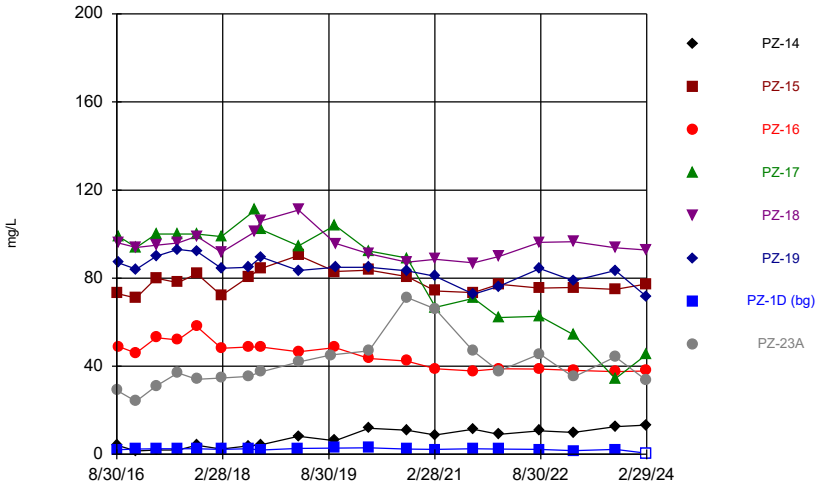


Constituent: Selenium Analysis Run 4/10/2024 1:23 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

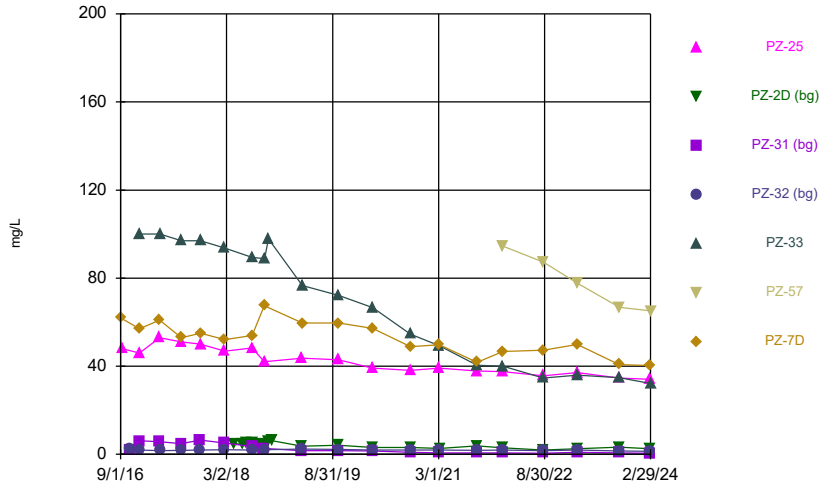
Time Series



Constituent: Sulfate Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

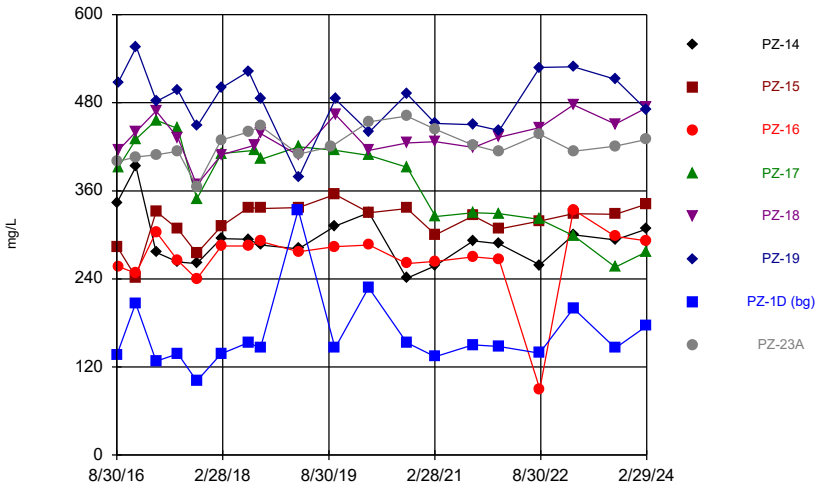
Time Series



Constituent: Sulfate Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

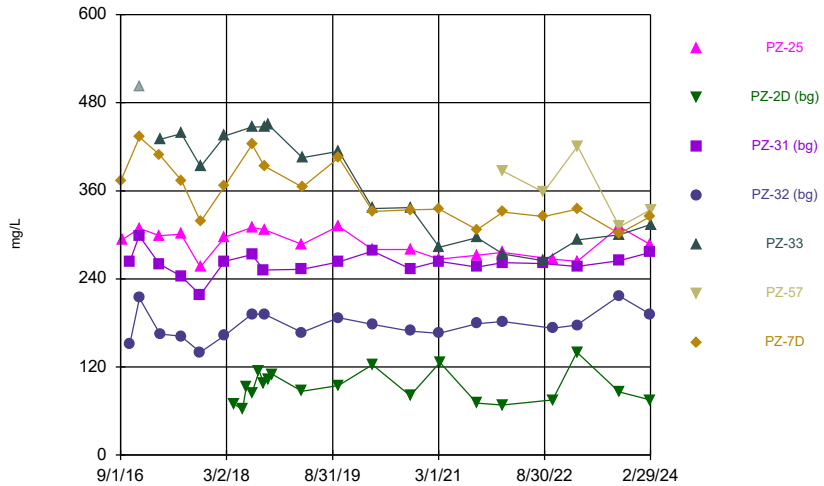
Time Series



Constituent: TDS Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

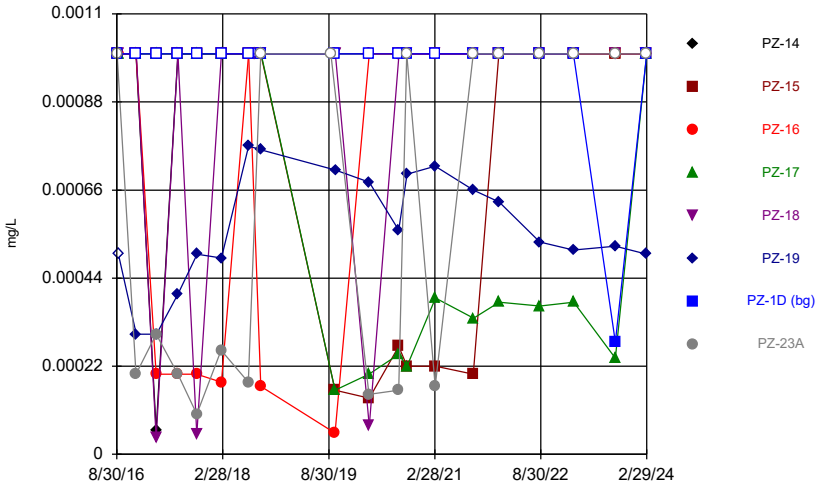
Time Series



Constituent: TDS Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

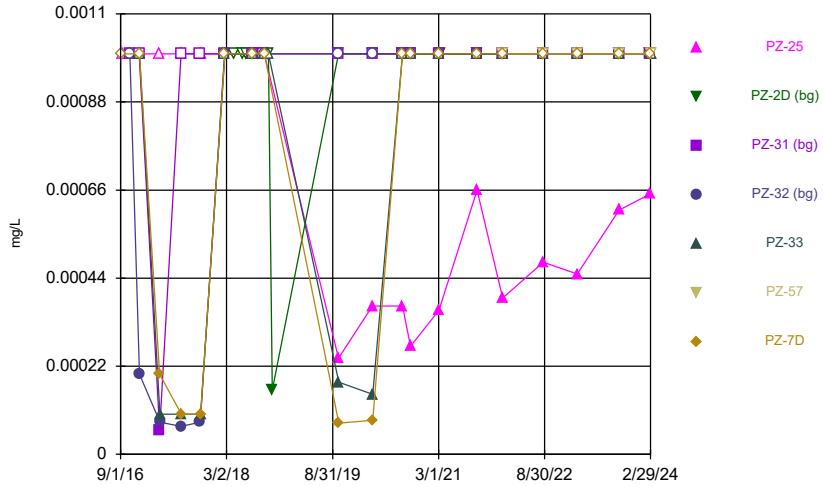
Time Series



Constituent: Thallium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/10/2024 1:23 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0009 (J)	
8/31/2016	<0.003							<0.003
9/1/2016		0.001 (J)						
9/6/2016			<0.003					
9/7/2016				<0.003	<0.003	<0.003		
12/6/2016							<0.003	
12/7/2016	<0.003	<0.003	<0.003					<0.003
12/8/2016				<0.003	<0.003	<0.003		
3/21/2017	0.0004 (J)						0.0028 (J)	<0.003
3/22/2017		<0.003	<0.003	<0.003	<0.003			
3/23/2017						<0.003		
7/11/2017	<0.003		<0.003				0.0035	<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003		
10/17/2017							0.0025 (J)	
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003
10/19/2017						<0.003		
2/20/2018	<0.003						0.00094 (J)	<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003		
7/11/2018	<0.003						0.0019 (J)	<0.003
7/12/2018		<0.003	<0.003			<0.003		
8/15/2018					<0.003			
8/16/2018				<0.003				
9/12/2018	<0.003						0.0019 (J)	
9/13/2018		<0.003	<0.003		<0.003			<0.003
9/14/2018				<0.003		<0.003		
9/10/2019								<0.003
10/1/2019							0.00076 (X)	
10/2/2019	<0.003	<0.003	<0.003	<0.003				
10/3/2019					<0.003	0.00044 (X)		
3/24/2020							0.00055 (J)	
3/25/2020	<0.003			0.00094 (J)				<0.003
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003		
8/25/2020							0.0012 (J)	
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003		0.00038 (J)
8/27/2020					<0.003			
10/6/2020	<0.003		<0.003				0.0021 (J)	<0.003
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003		
3/3/2021	<0.003					<0.003	0.00093 (J)	0.0017 (J)
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003			
9/14/2021							<0.003	
9/15/2021	<0.003	<0.003	<0.003					<0.003
9/16/2021				<0.003	<0.003	<0.003		
1/25/2022							<0.003	
1/26/2022	<0.003	<0.003	<0.003					<0.003
1/27/2022				<0.003	<0.003	<0.003		
8/24/2022							<0.003	
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
2/14/2023	<0.003						<0.003	<0.003
2/15/2023		<0.003	<0.003		<0.003	<0.003		
2/16/2023				<0.003				
9/19/2023			<0.003				<0.003	
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.003					0.00059 (J)	<0.003
2/29/2024	<0.003		<0.003	0.00076 (J)	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.003
9/8/2016	<0.003						
10/18/2016			0.0018 (J)	<0.003			
12/6/2016			<0.003				
12/7/2016				<0.003			<0.003
12/8/2016	<0.003				<0.003		
3/21/2017			<0.003				
3/22/2017	<0.003						<0.003
3/23/2017				<0.003	<0.003		
7/11/2017	<0.003		<0.003	<0.003			
7/12/2017					<0.003		<0.003
10/17/2017			<0.003	<0.003			
10/18/2017	<0.003						
10/19/2017					<0.003		<0.003
2/20/2018			<0.003	<0.003			
2/21/2018	<0.003				<0.003		<0.003
4/12/2018		<0.003					
5/23/2018		0.0017 (J)					
6/13/2018		0.0018 (J)					
7/11/2018		0.0024 (J)	<0.003	<0.003			
7/12/2018	<0.003				<0.003		<0.003
8/17/2018		0.00082 (J)					
9/12/2018		<0.003	<0.003				
9/13/2018	<0.003			<0.003			<0.003
9/14/2018					<0.003		
10/4/2018		<0.003			<0.003		
10/24/2018		0.00087 (J)					
10/1/2019				<0.003			
10/2/2019	<0.003	0.00042 (X)	<0.003				
10/3/2019					<0.003		0.00029 (X)
3/24/2020		0.00037 (J)					
3/25/2020	<0.003		<0.003	<0.003			
3/26/2020					<0.003		0.00042 (J)
8/25/2020			<0.003	<0.003			
8/26/2020	<0.003	0.0008 (J)			<0.003		0.00031 (J)
10/6/2020		0.0013 (J)	0.00045 (J)	<0.003			
10/7/2020	<0.003				0.00037 (J)		<0.003
3/3/2021	<0.003		<0.003	<0.003			
3/4/2021					<0.003		<0.003
3/8/2021		0.0003 (J)					
9/14/2021		0.0011 (J)		0.0012 (J)			
9/15/2021	<0.003		<0.003				
9/16/2021					<0.003		<0.003
1/25/2022		0.00098 (J)					
1/26/2022	<0.003		<0.003	<0.003			
1/27/2022					<0.003	<0.003	<0.003
8/24/2022	<0.003	0.0011 (J)	<0.003	0.001 (J)	0.00082 (J)		
8/25/2022							<0.003
8/26/2022						<0.003	
2/14/2023		0.0015 (J)	<0.003	<0.003			
2/15/2023	<0.003						<0.003
2/16/2023					<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.003	<0.003	0.0042	<0.003			
9/20/2023							<0.003
9/21/2023					<0.003	<0.003	
2/27/2024	<0.003	0.00073 (J)		<0.003			
2/28/2024			0.0025 (J)				0.00089 (J)
2/29/2024					<0.003	<0.003	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.005
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0011 (J)	<0.005	0.0007 (J)	<0.005			
3/23/2017						0.0007 (J)		
7/11/2017	<0.005		<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)		<0.005	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		0.00089 (J)	<0.005	0.00072 (J)	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				0.0007 (J)				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								0.00036 (X)
10/1/2019							<0.005	
10/2/2019	0.00083 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				<0.005
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		<0.005
8/27/2020					<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005
2/28/2024		<0.005					<0.005	<0.005
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0017 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				0.002 (J)			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0007 (J)		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00071 (J)				0.00094 (J)		<0.005
4/12/2018		0.00064 (J)					
5/23/2018		<0.005					
6/13/2018		0.0007 (J)					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		0.00062 (J)					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		0.00068 (J)					
10/1/2019				<0.005			
10/2/2019	0.00063 (X)	0.0022 (X)	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		<0.005
9/14/2021		0.0014 (J)		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		0.0014 (J)					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	<0.005
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						<0.005
2/16/2023					<0.005	<0.005	
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	
2/27/2024	<0.005	<0.005		<0.005			
2/28/2024			<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/29/2024					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0335	
8/31/2016	0.0253							0.0407
9/1/2016		0.103						
9/6/2016			0.0794					
9/7/2016				0.0823	0.0717	0.067		
12/6/2016							0.0311	
12/7/2016	0.065	0.0781	0.0689					0.0581
12/8/2016				0.0668	0.0513	0.0522		
3/21/2017	0.0379						0.0305	0.0678
3/22/2017		0.0589	0.0423	0.0821	0.0273			
3/23/2017						0.0591		
7/11/2017	0.036		0.0467				0.0305	0.0574
7/12/2017		0.0613		0.0805	0.0269	0.0604		
10/17/2017							0.0255	
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258			0.0351
10/19/2017						0.0542		
2/20/2018	0.03						0.027	0.05
2/21/2018		0.076	0.046	0.073	0.029	0.058		
7/11/2018	0.027						0.032	0.051
7/12/2018		0.056	0.043			0.057		
8/15/2018					0.027			
8/16/2018				0.081				
9/12/2018	0.022						0.021	
9/13/2018		0.048	0.038		0.023			0.038
9/14/2018				0.081		0.058		
9/10/2019								0.029
10/1/2019							0.016	
10/2/2019	0.017	0.049	0.038	0.074				
10/3/2019					0.025	0.057		
3/24/2020							0.015	
3/25/2020	0.021			0.077				0.048
3/26/2020		0.048	0.034		0.023	0.052		
8/25/2020							0.014	
8/26/2020	0.016	0.053	0.036	0.077		0.049		0.039
8/27/2020					0.023			
10/6/2020	0.016		0.034				0.015	0.037
10/7/2020		0.049		0.074	0.023	0.054		
3/3/2021	0.017					0.055	0.015	0.039
3/4/2021		0.047	0.035	0.071	0.023			
9/14/2021							0.013	
9/15/2021	0.014	0.045	0.032					0.037
9/16/2021				0.064	0.022	0.053		
1/25/2022							0.014	
1/26/2022	0.016	0.055	0.034					0.039
1/27/2022				0.072	0.025	0.055		
8/24/2022							0.015	
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046		0.036
2/14/2023	0.014						0.02	0.033
2/15/2023		0.048	0.033		0.026	0.051		
2/16/2023				0.059				
9/19/2023			0.038				0.014	
9/20/2023	0.01	0.05		0.058	0.022	0.053		0.035

Time Series

Constituent: Barium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		0.058					0.017	0.036
2/29/2024	0.013		0.034	0.052	0.031	0.051		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0117
9/8/2016	0.102						
10/18/2016			0.0257	0.0248			
12/6/2016			0.113				
12/7/2016				0.0506			0.0133
12/8/2016	0.102				0.162 (o)		
3/21/2017			0.0226				
3/22/2017	0.0951						0.0114
3/23/2017				0.0175	0.0753		
7/11/2017	0.102		0.0139	0.0161			
7/12/2017					0.0756		0.0097 (J)
10/17/2017			0.0103	0.0158			
10/18/2017	0.0997						
10/19/2017					0.0681		0.0091 (J)
2/20/2018			0.015	0.015			
2/21/2018	0.11				0.085		0.0086 (J)
4/12/2018		<0.01					
5/23/2018		0.0042 (J)					
6/13/2018		0.012					
7/11/2018		0.0056 (J)	0.011	0.016			
7/12/2018	0.1				0.076		0.0093 (J)
8/17/2018		0.0069 (J)					
9/12/2018		0.011	0.0087 (J)				
9/13/2018	0.1			0.014			0.0078 (J)
9/14/2018					0.071		
10/4/2018		0.0066 (J)			0.072		
10/24/2018		0.0059 (J)					
10/1/2019				0.015			
10/2/2019	0.11	0.0046 (X)	0.0067 (X)				
10/3/2019					0.057		0.007 (X)
3/24/2020		0.0046 (J)					
3/25/2020	0.11		0.0082 (J)	0.015			
3/26/2020					0.057		0.0072 (J)
8/25/2020			0.0071 (J)	0.015			
8/26/2020	0.1	0.0051 (J)			0.051		0.007 (J)
10/6/2020		0.0039 (J)	0.0075 (J)	0.015			
10/7/2020	0.11				0.048		0.0061 (J)
3/3/2021	0.12		0.0069	0.013			
3/4/2021					0.047		0.0061
3/8/2021		0.0065					
9/14/2021		0.0041 (J)		0.014			
9/15/2021	0.11		0.0066				
9/16/2021					0.039		0.0062
1/25/2022		0.0037 (J)					
1/26/2022	0.11		0.0075	0.014			
1/27/2022					0.043	0.14	0.0068
8/24/2022	0.1	0.01	0.0063	0.019	0.038		
8/25/2022							0.0058
8/26/2022						0.064	
2/14/2023		0.0055	0.0071	0.014			
2/15/2023	0.1						0.006
2/16/2023					0.04	0.063	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.11	0.0027 (J)	0.0071	0.015			
9/20/2023							0.0059
9/21/2023					0.041	0.062	
2/27/2024	0.13	0.0035 (J)		0.015			
2/28/2024			0.0079				0.006
2/29/2024					0.039	0.052	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							<0.0005
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					<0.0005
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						6.1E-05 (J)	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
2/28/2024		<0.0005					<0.0005	<0.0005
2/29/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	<0.0005		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		6E-05 (J)					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	
2/27/2024	<0.0005	<0.0005		<0.0005			
2/28/2024			<0.0005				<0.0005
2/29/2024					<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0132 (J)	
8/31/2016	0.0285 (J)							0.166
9/1/2016		0.215						
9/6/2016			0.17					
9/7/2016				0.276	0.355	0.573		
12/6/2016							0.0096 (J)	
12/7/2016	0.0292 (J)	0.224	0.173					0.182
12/8/2016				0.303	0.351	0.588		
3/21/2017	0.0198 (J)						0.0082 (J)	0.172
3/22/2017		0.205	0.218	0.342	0.405			
3/23/2017						0.703		
7/11/2017	0.0137 (J)		0.18				0.0067 (J)	0.149
7/12/2017		0.184		0.278	0.35	0.598		
10/17/2017							0.0083 (J)	
10/18/2017	0.0212 (J)	0.197	0.195	0.277	0.37			0.158
10/19/2017						0.66		
2/20/2018	0.026 (J)						0.024 (J)	0.16
2/21/2018		0.21	0.21	0.29	0.33	0.6		
7/11/2018	0.026 (J)						0.017 (J)	0.17
7/12/2018		0.23	0.21			0.64		
8/15/2018					0.37			
8/16/2018				0.33				
9/12/2018	0.02 (J)						0.012 (J)	
9/13/2018		0.22	0.21		0.37			0.16
9/14/2018				0.31		0.57		
3/26/2019							0.0082	
3/27/2019	0.023		0.21		0.41			0.18
3/28/2019		0.22		0.34		0.7		
9/10/2019								0.15
10/1/2019							0.0064 (X)	
10/2/2019	0.021 (X)	0.17	0.19	0.28				
10/3/2019					0.35	0.52		
3/24/2020							0.013 (J)	
3/25/2020	0.027 (J)			0.33				0.19
3/26/2020		0.21	0.19		0.36	0.6		
10/6/2020	0.026 (J)		0.19				0.015 (J)	0.16
10/7/2020		0.19		0.3	0.39	0.52		
3/3/2021	0.028 (J)					0.5	0.01 (J)	0.16
3/4/2021		0.16	0.2	0.22	0.37			
9/14/2021							<0.04	
9/15/2021	0.022 (J)	0.16	0.16					0.15
9/16/2021				0.22	0.31	0.46		
1/25/2022							0.01 (J)	
1/26/2022	0.022 (J)	0.22	0.19					0.14
1/27/2022				0.21	0.4	0.55		
8/24/2022							0.011 (J)	
8/25/2022	0.032 (J)	0.21	0.24	0.19 (J)	0.39	0.58		0.17 (J)
2/14/2023	0.023 (J)						0.011 (J)	0.13
2/15/2023		0.21	0.19		0.35	0.54		
2/16/2023				0.15				
9/19/2023			0.19				0.024 (J)	
9/20/2023	0.027 (J)	0.18		0.1	0.41	0.62		0.15

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		0.2					0.016 (J)	0.12
2/29/2024	0.03 (J)		0.18	0.13	0.35	0.43		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.379
9/8/2016	0.204						
10/5/2016					0.404		
10/10/2016					0.401		
10/18/2016			0.0174 (J)	0.0156 (J)			
12/6/2016			0.0133 (J)				
12/7/2016				0.0157 (J)			0.394
12/8/2016	0.216				0.375		
3/21/2017			0.0103 (J)				
3/22/2017	0.247						0.365
3/23/2017				0.0103 (J)	0.396		
7/11/2017	0.194		<0.04	<0.04			
7/12/2017					0.343		0.267
10/17/2017			0.0116 (J)	0.0142 (J)			
10/18/2017	0.186						
10/19/2017					0.413		0.326
2/20/2018			0.046 (J)	0.011 (J)			
2/21/2018	0.22				0.36		0.29
4/12/2018		0.016 (J)					
5/23/2018		0.018 (J)					
6/13/2018		0.014 (J)					
7/11/2018		0.017 (J)	0.014 (J)	0.014 (J)			
7/12/2018	0.22				0.41		0.32
8/17/2018		0.015 (J)					
9/12/2018		0.013 (J)	0.0098 (J)				
9/13/2018	0.2			0.013 (J)			0.31
9/14/2018					0.38		
10/4/2018		0.016 (J)			0.39		
10/24/2018		0.018 (J)					
3/26/2019			0.0076				
3/27/2019	0.22	0.016		0.012			
3/28/2019					0.39		0.33
10/1/2019				0.011 (X)			
10/2/2019	0.21	0.011 (X)	0.0084 (X)				
10/3/2019					0.36		0.24
3/24/2020		0.015 (J)					
3/25/2020	0.21		0.011 (J)	0.016 (J)			
3/26/2020					0.38		0.24
10/6/2020		0.018 (J)	0.011 (J)	0.015 (J)			
10/7/2020	0.18				0.35		0.2
3/3/2021	0.2		0.0087 (J)	0.022 (J)			
3/4/2021					0.34		0.2
3/8/2021		0.013 (J)					
9/14/2021		0.011 (J)		0.012 (J)			
9/15/2021	0.17		<0.04				
9/16/2021					0.31		0.18
1/25/2022		0.013 (J)					
1/26/2022	0.2		<0.04	0.01 (J)			
1/27/2022					0.36	0.19	0.23
8/24/2022	0.19	0.012 (J)	<0.04	0.022 (J)	0.32		
8/25/2022							0.2
8/26/2022						0.18	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.01 (J)	<0.04	0.012 (J)			
2/15/2023	0.17						0.21
2/16/2023					0.31	0.16	
9/19/2023	0.18	0.011 (J)	0.022 (J)	0.011 (J)			
9/20/2023							0.19
9/21/2023					0.45	0.2	
2/27/2024	0.17	<0.04		<0.04			
2/28/2024			0.016 (J)				0.17
2/29/2024					0.32	0.17	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0005	
8/31/2016	<0.0005							0.0002 (J)
9/1/2016		<0.0005						
9/6/2016			<0.0005					
9/7/2016				<0.0005	<0.0005	<0.0005		
12/6/2016							<0.0005	
12/7/2016	<0.0005	<0.0005	<0.0005					0.0002 (J)
12/8/2016				<0.0005	<0.0005	<0.0005		
3/21/2017	<0.0005						<0.0005	<0.0005
3/22/2017		<0.0005	<0.0005	<0.0005	<0.0005			
3/23/2017						<0.0005		
7/11/2017	<0.0005		<0.0005				<0.0005	<0.0005
7/12/2017		<0.0005		<0.0005	<0.0005	<0.0005		
10/17/2017							<0.0005	
10/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
10/19/2017						<0.0005		
2/20/2018	<0.0005						<0.0005	<0.0005
2/21/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2018	<0.0005						<0.0005	<0.0005
7/12/2018		<0.0005	<0.0005			<0.0005		
8/15/2018					<0.0005			
8/16/2018				<0.0005				
9/12/2018	<0.0005						<0.0005	
9/13/2018		<0.0005	<0.0005		<0.0005			<0.0005
9/14/2018				<0.0005		<0.0005		
8/25/2020							<0.0005	
8/26/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/27/2020					<0.0005			
9/14/2021							<0.0005	
9/15/2021	<0.0005	<0.0005	<0.0005					<0.0005
9/16/2021				<0.0005	<0.0005	<0.0005		
1/25/2022							<0.0005	
1/26/2022	<0.0005	<0.0005	<0.0005					<0.0005
1/27/2022				<0.0005	<0.0005	<0.0005		
8/24/2022							<0.0005	
8/25/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/14/2023	<0.0005						<0.0005	<0.0005
2/15/2023		<0.0005	<0.0005		<0.0005	<0.0005		
2/16/2023				<0.0005				
9/19/2023			<0.0005				<0.0005	
9/20/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
2/28/2024		<0.0005					<0.0005	<0.0005
2/29/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0005
9/8/2016	<0.0005						
10/18/2016			<0.0005	<0.0005			
12/6/2016			<0.0005				
12/7/2016				<0.0005			<0.0005
12/8/2016	<0.0005				<0.0005		
3/21/2017			<0.0005				
3/22/2017	<0.0005						<0.0005
3/23/2017				<0.0005	0.0001 (J)		
7/11/2017	<0.0005		<0.0005	<0.0005			
7/12/2017					<0.0005		<0.0005
10/17/2017			<0.0005	<0.0005			
10/18/2017	<0.0005						
10/19/2017					<0.0005		<0.0005
2/20/2018			<0.0005	<0.0005			
2/21/2018	<0.0005				<0.0005		<0.0005
4/12/2018		<0.0005					
5/23/2018		<0.0005					
6/13/2018		<0.0005					
7/11/2018		<0.0005	<0.0005	<0.0005			
7/12/2018	<0.0005				<0.0005		<0.0005
8/17/2018		<0.0005					
9/12/2018		<0.0005	<0.0005				
9/13/2018	<0.0005			<0.0005			<0.0005
9/14/2018					<0.0005		
10/4/2018		<0.0005			<0.0005		
10/24/2018		<0.0005					
8/25/2020			<0.0005	<0.0005			
8/26/2020	<0.0005	<0.0005			<0.0005		<0.0005
9/14/2021		<0.0005		<0.0005			
9/15/2021	<0.0005		<0.0005				
9/16/2021					<0.0005		<0.0005
1/25/2022		<0.0005					
1/26/2022	<0.0005		<0.0005	<0.0005			
1/27/2022					<0.0005	<0.0005	<0.0005
8/24/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2022							<0.0005
8/26/2022						<0.0005	
2/14/2023		<0.0005	<0.0005	<0.0005			
2/15/2023	<0.0005						<0.0005
2/16/2023					<0.0005	<0.0005	
9/19/2023	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2023							<0.0005
9/21/2023					<0.0005	<0.0005	
2/27/2024	<0.0005	<0.0005		<0.0005			
2/28/2024			<0.0005				<0.0005
2/29/2024					<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							40.4	
8/31/2016	92.9							132
9/1/2016		74.8						
9/6/2016			74.6					
9/7/2016				100	112	138		
12/6/2016							43.3	
12/7/2016	93.1	74	68.9					125
12/8/2016				102	113	135		
3/21/2017	95						44.1	138
3/22/2017		99.3	77.8	113	122			
3/23/2017						137		
7/11/2017	97.1		77.3				47.4	139
7/12/2017		91.4		110	129	145		
10/17/2017							48.7	
10/18/2017	100	92	84.7	122	125			144
10/19/2017						140		
2/20/2018	93.1						46.8	142
2/21/2018		89	81.8	107	118	145		
7/11/2018	111						65.3 (o)	159
7/12/2018		94.5	85.2			140		
8/15/2018					123			
8/16/2018				113				
9/12/2018	99.3						46.6	
9/13/2018		90.8	80.2		123			136
9/14/2018				108		124		
3/26/2019							43.3	
3/27/2019	105		90.5		134			152
3/28/2019		100		123		164		
9/10/2019								137
10/1/2019							46.8	
10/2/2019	103	101	89.1	115				
10/3/2019					139	125		
3/24/2020							48	
3/25/2020	105			121				157
3/26/2020		103	89.8		138	158		
10/6/2020	111		84				50.5	144
10/7/2020		93.5		112	129	144		
3/3/2021	114					142	54.7	154
3/4/2021		107	90.9	113	138			
9/14/2021							51	
9/15/2021	106	94	91					147
9/16/2021				102	135	137		
1/25/2022							53.1	
1/26/2022	114	100	90.1					152
1/27/2022				104	142	133		
8/24/2022							45.8	
8/25/2022	108	96.7	92	99.5	141	156		145
2/14/2023	103						56.2	139
2/15/2023		98.1	88.5		164 (M1)	144		
2/16/2023				94.1				
9/19/2023			83.3				44.7	
9/20/2023	98.2	89.3		73.3	129	143		131

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		95.4					55	144
2/29/2024	103		89.9	87.8	152	146		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							101
9/8/2016	85.2						
10/18/2016			88.3	57.2			
12/6/2016			83.4				
12/7/2016				52.8			103
12/8/2016	84.5				117		
3/21/2017			94				
3/22/2017	85.3						111
3/23/2017				59.1	122		
7/11/2017	93		86	59.7			
7/12/2017					124		119
10/17/2017			91.6	64.9			
10/18/2017	87.6						
10/19/2017					118		107
2/20/2018			86.5	64.1			
2/21/2018	93.9				122		118
4/12/2018		<25					
5/23/2018		17.6 (J)					
6/13/2018		14.3					
7/11/2018		15.6	95.4	60.4			
7/12/2018	87.1				129		121
8/17/2018		27					
9/12/2018		26.9	86				
9/13/2018	85.8			58.7			116
9/14/2018					123		
10/4/2018		25			126		
10/24/2018		23.8					
3/26/2019			87.3				
3/27/2019	95.2	26.1		54.6			
3/28/2019					117		124
10/1/2019				64.3			
10/2/2019	92.3	21	95.5				
10/3/2019					110		127
3/24/2020		26.5					
3/25/2020	97.5		95.8	66.6			
3/26/2020					122		122
10/6/2020		22.7	98.8	62.8			
10/7/2020	84.2				94.7		109
3/3/2021	96.8		104	64.8 (M1)			
3/4/2021					106		122
3/8/2021		41.7					
9/14/2021		13.4		67.8			
9/15/2021	84.4		101				
9/16/2021					92		109
1/25/2022		20.7					
1/26/2022	90.2		102	69.2			
1/27/2022					92.5	106	112
8/24/2022	87.6	27.3	95.2	67.1	96.5		
8/25/2022							107
8/26/2022						95.5	
2/14/2023		30.2	99.9	69.3			
2/15/2023	86.9						114

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					92.2 (M1)	91.6	
9/19/2023	80.3	13.7	86.9	64.6			
9/20/2023							94.3
9/21/2023					81.4	79.5	
2/27/2024	94.6	19.2		67.5			
2/28/2024			99.9				104
2/29/2024					100	101	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							3.1	
8/31/2016	4.9							5.1
9/1/2016		7						
9/6/2016			7.9					
9/7/2016				7.7	6.9	6.8		
12/6/2016							3.4	
12/7/2016	4.8	7	7.6					5.2
12/8/2016				7.2	6.8	6.6		
3/21/2017	4.9						2.9	5.5
3/22/2017		7.4	7.7	7.3	6.8			
3/23/2017						6.6		
7/11/2017	5		8.1				3.4	5.7
7/12/2017		8		7.4	6.7	6.6		
10/17/2017							3.3	
10/18/2017	5.1	7.8	8.2	7.6	6.8			5.1
10/19/2017						6.5		
2/20/2018	5.1						3.3	5.5
2/21/2018		7.2	7.3	7.4	7.1	7.6		
7/11/2018	4.9						2.9	5.1
7/12/2018		7.5	7.2			6.3		
8/15/2018					6.7			
8/16/2018				7.5				
9/12/2018	4.8						2.8	
9/13/2018		6.8	7.3		6.7			5
9/14/2018				7.7		6.1		
3/26/2019							3.3	
3/27/2019	5.2		7.3		6.5			4.7
3/28/2019		7.4		7.3		6.4		
9/10/2019								3.8
10/1/2019							3.6	
10/2/2019	5.4	8	7.7	7.9				
10/3/2019					7	5.6		
3/24/2020							2.8	
3/25/2020	4.2			6.1				6.4
3/26/2020		7	7		5.7	5.4		
10/6/2020	4.4		6.4				3	7
10/7/2020		6.6		5.7	5	4.5		
3/3/2021	4.2					4	2.8	4.7
3/4/2021		6.3	5.9	4.2	5.1			
9/14/2021							2.9	
9/15/2021	3.9	5.8	5.6					2.8
9/16/2021				4.2	4.7	3.5		
1/25/2022							2.9	
1/26/2022	4.4	6.3	6.1					3.6
1/27/2022				3.8	4.9	3.7		
8/24/2022							2.6	
8/25/2022	4.6	6.4	6.3	3.9	4.6	4.6		3.2
2/14/2023	4.5						3	3.8
2/15/2023		6.2	6.2		4.5	4.1		
2/16/2023				3.1				
9/19/2023			5.9				2.9	
9/20/2023	4.3	6.2		2.1	4.2	4.1		2.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		5.9					2.8	3.6
2/29/2024	4.3		5.9	2.4	4.1	3.3		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.4
9/8/2016	4						
10/18/2016			4.5	3.5			
12/6/2016			5				
12/7/2016				3.2			7.6
12/8/2016	3.6				6.9		
3/21/2017			4.3				
3/22/2017	3.3						7.2
3/23/2017				2.9	6.2		
7/11/2017	3		4.7	3.1			
7/12/2017					6		7.3
10/17/2017			4.6	3			
10/18/2017	2.9						
10/19/2017					6.4		7.4
2/20/2018			4.4	3			
2/21/2018	2.9				6.9		7.6
4/12/2018		2.6					
5/23/2018		2.5					
6/13/2018		2.5					
7/11/2018		2.6	4	2.8			
7/12/2018	2.6				7.3		7.1
8/17/2018		2.6					
9/12/2018		2.3	3.7				
9/13/2018	2.3			2.2			6.6
9/14/2018					7.3		
10/4/2018		2.7			7		
10/24/2018		2.8					
3/26/2019			3.8				
3/27/2019	2.4	2.5		3.1			
3/28/2019					4.8		6.4
10/1/2019				3.1			
10/2/2019	2.6	2.7	4.3				
10/3/2019					4.1		5.9
3/24/2020		2.2					
3/25/2020	1.6		3	2.2			
3/26/2020					2.9		4.8
10/6/2020		2.3	3.4	2.3			
10/7/2020	1.8				2		3.9
3/3/2021	1.6		3.1	2.2			
3/4/2021					1.8		4
3/8/2021		2.4					
9/14/2021		2.5		2.2			
9/15/2021	1.8		2.8				
9/16/2021					1.5		3.3
1/25/2022		2.4					
1/26/2022	1.7		3.2	2.4			
1/27/2022					1.8	3.2	3.8
8/24/2022	1.8	2.1	3	2.7	1.8		
8/25/2022							4.1
8/26/2022						2.4	
2/14/2023		2.6	3.3	2.7			
2/15/2023	1.8						4.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					2.3	2.2	
9/19/2023	1.6	2.3	3.4	2.6			
9/20/2023							3.4
9/21/2023					2.8	2	
2/27/2024	1.5	2.4		2.5			
2/28/2024			3.1				3.3
2/29/2024					2.7	1.9	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.0039 (J)	
8/31/2016	<0.005							<0.01
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.005		
12/6/2016							0.0047 (J)	
12/7/2016	<0.005	<0.005	<0.005					<0.01
12/8/2016				<0.005	<0.005	<0.005		
3/21/2017	<0.005						0.0047 (J)	0.0009 (J)
3/22/2017		<0.005	0.0008 (J)	<0.005	<0.005			
3/23/2017						<0.005		
7/11/2017	<0.005		<0.005				0.0054 (J)	0.0016 (J)
7/12/2017		<0.005		<0.005	<0.005	<0.005		
10/17/2017							0.0053 (J)	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			0.0019 (J)
10/19/2017						<0.005		
2/20/2018	<0.005						0.0029 (J)	<0.01
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.005						0.0057 (J)	0.0021 (J)
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						0.0033 (J)	
9/13/2018		<0.005	<0.005		<0.005			0.0022 (J)
9/14/2018				<0.005		<0.005		
9/10/2019								0.0044 (X)
10/1/2019							0.0022 (X)	
10/2/2019	<0.005	<0.005	0.00044 (X)	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							0.0036 (J)	
3/25/2020	0.0013 (J)			<0.005				0.0012 (J)
3/26/2020		<0.005	0.0013 (J)		0.00056 (J)	0.00073 (J)		
8/25/2020							0.003 (J)	
8/26/2020	0.0011 (J)	<0.005	0.00087 (J)	<0.005		<0.005		0.0014 (J)
8/27/2020					<0.005			
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)	0.0015 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	0.00097 (J)					<0.005	0.0018 (J)	0.0015 (J)
3/4/2021		<0.005	0.0012 (J)	<0.005	<0.005			
9/14/2021							0.002 (J)	
9/15/2021	0.0014 (J)	<0.005	0.0011 (J)					0.0019 (J)
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							0.0025 (J)	
1/26/2022	0.0012 (J)	<0.005	0.0013 (J)					0.0028 (J)
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							0.0025 (J)	
8/25/2022	0.0014 (J)	<0.005	0.0012 (J)	<0.005	<0.005	<0.005		0.0022 (J)
2/14/2023	0.0018 (J)						0.0015 (J)	0.0024 (J)
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				0.0015 (J)	
9/20/2023	0.002 (J)	<0.005		<0.005	<0.005	<0.005		0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					<0.005	0.002 (J)
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.005						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				<0.005			0.003 (J)
12/8/2016	<0.005				<0.005		
3/21/2017			0.0006 (J)				
3/22/2017	<0.005						0.0005 (J)
3/23/2017				0.0005 (J)	0.0017 (J)		
7/11/2017	<0.005		0.0006 (J)	<0.005			
7/12/2017					<0.005		<0.01
10/17/2017			0.0008 (J)	0.0005 (J)			
10/18/2017	<0.005						
10/19/2017					<0.005		0.0005 (J)
2/20/2018			<0.005	<0.005			
2/21/2018	<0.005				<0.005		<0.01
4/12/2018		0.01					
5/23/2018		0.011					
6/13/2018		0.011					
7/11/2018		0.0096 (J)	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.01
8/17/2018		0.0078 (J)					
9/12/2018		0.0056 (J)	<0.005				
9/13/2018	<0.005			<0.005			<0.01
9/14/2018					<0.005		
10/4/2018		0.0057 (J)			<0.005		
10/24/2018		0.0058 (J)					
10/1/2019				<0.005			
10/2/2019	<0.005	0.0049 (X)	0.00043 (X)				
10/3/2019					<0.005		0.0004 (X)
3/24/2020		0.0047 (J)					
3/25/2020	<0.005		0.0013 (J)	0.00086 (J)			
3/26/2020					<0.005		0.0016 (J)
8/25/2020			0.0011 (J)	0.001 (J)			
8/26/2020	<0.005	0.004 (J)			<0.005		0.0011 (J)
10/6/2020		0.0065 (J)	0.0013 (J)	0.00072 (J)			
10/7/2020	<0.005				<0.005		0.0014 (J)
3/3/2021	<0.005		0.0015 (J)	<0.005			
3/4/2021					<0.005		0.0024 (J)
3/8/2021		0.0028 (J)					
9/14/2021		0.0084		<0.005			
9/15/2021	<0.005		0.0014 (J)				
9/16/2021					<0.005		0.0025 (J)
1/25/2022		0.0098					
1/26/2022	<0.005		0.0015 (J)	<0.005			
1/27/2022					<0.005	<0.005	0.0034 (J)
8/24/2022	<0.005	0.0066	0.0015 (J)	<0.005	<0.005		
8/25/2022							0.0024 (J)
8/26/2022						<0.005	
2/14/2023		0.0041 (J)	0.0011 (J)	<0.005			
2/15/2023	<0.005						0.0034 (J)
2/16/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	0.0071	0.0012 (J)	<0.005			
9/20/2023							0.0022 (J)
9/21/2023					<0.005	0.0013 (J)	
2/27/2024	<0.005	0.009		<0.005			
2/28/2024			<0.005				0.0025 (J)
2/29/2024					<0.005	0.0032 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	<0.005							<0.005
9/1/2016		0.0012 (J)						
9/6/2016			0.0005 (J)					
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)		
12/6/2016							<0.005	
12/7/2016	0.002 (J)	0.0005 (J)	<0.005					0.0008 (J)
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)		
3/21/2017	<0.005						<0.005	<0.005
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005			
3/23/2017						<0.005		
7/11/2017	0.0003 (J)		<0.005				<0.005	<0.005
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005		
10/17/2017							<0.005	
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005			<0.005
10/19/2017						<0.005		
2/20/2018	<0.005						<0.005	<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005		
7/11/2018	<0.005						<0.005	<0.005
7/12/2018		<0.005	<0.005			<0.005		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.005
9/14/2018				<0.005		<0.005		
9/10/2019								<0.005
10/1/2019							<0.005	
10/2/2019	<0.005	<0.005	<0.005	<0.005				
10/3/2019					<0.005	<0.005		
3/24/2020							<0.005	
3/25/2020	<0.005			0.00032 (J)				0.0003 (J)
3/26/2020		<0.005	<0.005		<0.005	<0.005		
8/25/2020							<0.005	
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005		0.00058 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.00067 (J)
10/7/2020		<0.005		<0.005	<0.005	<0.005		
3/3/2021	<0.005					<0.005	<0.005	0.00049 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					<0.005
9/16/2021				<0.005	<0.005	<0.005		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					<0.005
1/27/2022				<0.005	<0.005	<0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
2/14/2023	<0.005						<0.005	<0.005
2/15/2023		<0.005	<0.005		<0.005	<0.005		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					0.00037 (J)	<0.005
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	0.0008 (J)						
10/18/2016			<0.005	<0.005			
12/6/2016			0.0018 (J)				
12/7/2016				0.0015 (J)			<0.005
12/8/2016	<0.01				0.0041 (J)		
3/21/2017			<0.005				
3/22/2017	0.001 (J)						<0.005
3/23/2017				<0.005	0.0008 (J)		
7/11/2017	0.001 (J)		<0.005	<0.005			
7/12/2017					0.0007 (J)		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	0.0011 (J)						
10/19/2017					0.0005 (J)		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	0.00075 (J)				0.0012 (J)		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	0.0008 (J)				0.00053 (J)		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	0.001 (J)			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	0.0017 (X)	<0.005	<0.005				
10/3/2019					<0.005		<0.005
3/24/2020		<0.005					
3/25/2020	0.0018 (J)		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	0.0016 (J)	<0.005			<0.005		<0.005
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	0.0014 (J)				<0.005		<0.005
3/3/2021	0.0016 (J)		<0.005	<0.005			
3/4/2021					<0.005		<0.005
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	0.002 (J)		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	0.0016 (J)		<0.005	<0.005			
1/27/2022					<0.005	0.0043 (J)	<0.005
8/24/2022	0.0016 (J)	<0.005	<0.005	<0.005	<0.005		
8/25/2022							<0.005
8/26/2022						0.0012 (J)	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	0.0012 (J)						<0.005
2/16/2023					<0.005	0.00051 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0017 (J)	<0.005	<0.005	<0.005			
9/20/2023							<0.005
9/21/2023					<0.005	<0.005	
2/27/2024	0.0017 (J)	<0.005		<0.005			
2/28/2024			<0.005				<0.005
2/29/2024					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.503 (U)	
8/31/2016	1.77							1.85
9/1/2016		1.19						
9/6/2016			1.12					
9/7/2016				1.06 (U)	1.51	1.22		
12/6/2016							0.302 (U)	
12/7/2016	0.672 (U)	1.88	1.37					0.844 (U)
12/8/2016				1.3	1.29	1.69		
3/21/2017	0.33 (U)						0.526 (U)	0.832 (U)
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)			
3/23/2017						1.07		
7/11/2017	0.701 (U)		0.76 (U)				0.676 (U)	0.824 (U)
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)		
10/17/2017							0.201 (U)	
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)			1.19
10/19/2017						0.398 (U)		
2/20/2018	2.12						1.07 (U)	0.975 (U)
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)		
7/11/2018	0.232 (U)						0.825 (U)	1.29
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)		
9/12/2018	0.532 (U)						0.317 (U)	
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)			0.765 (U)
9/14/2018				1.16		0.74 (U)		
9/10/2019								0.575 (U)
10/1/2019							0.953 (U)	
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)				
10/3/2019					2.07	1.9		
3/24/2020							2.23	
3/25/2020	0.694 (U)			0.385 (U)				1.39
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66		
8/25/2020							0.777 (U)	
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)		0.774 (U)
10/6/2020	0.265 (U)		1.12 (U)				0.996 (U)	1.24 (U)
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893		
3/3/2021	0.328 (U)					0.469 (U)	0.915 (U)	1.01 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)			
9/14/2021							0.532 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)					0.742 (U)
9/16/2021				0.377 (U)	0.681 (U)	1.4		
1/25/2022							0.32 (U)	
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)					0.76 (U)
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)		
8/24/2022							0.196 (U)	
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937		0.396 (U)
2/14/2023	0.0857 (U)						0.319 (U)	0.521 (U)
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)		
2/16/2023				0.129 (U)				
9/19/2023			0.531 (U)				0.55 (U)	
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)		0.235 (U)
2/28/2024		0.948 (U)					0.498 (U)	0.261 (U)
2/29/2024	0.433 (U)		0.463 (U)	0.621 (U)	0.228 (U)	0.744 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.88 (U)
9/8/2016	1.41						
10/18/2016			0.0311 (U)	0.0333 (U)			
12/6/2016			0.301 (U)				
12/7/2016				0.507 (U)			0.179 (U)
12/8/2016	1.39				0.968 (U)		
3/21/2017			0.506 (U)				
3/22/2017	0.852 (U)						0.279 (U)
3/23/2017				0.378 (U)	0.444 (U)		
7/11/2017	1.04		0.0701 (U)	1.04			
7/12/2017					0.814 (U)		0.125 (U)
10/17/2017			0.412 (U)	0.779 (U)			
10/18/2017	0.678 (U)						
10/19/2017					0.748 (U)		0.329 (U)
2/20/2018			0.81 (U)	0.906 (U)			
2/21/2018	0.863 (U)				1.05 (U)		0.504 (U)
4/12/2018		0.774 (U)					
5/23/2018		0.301 (U)					
6/13/2018		0.508 (U)					
7/11/2018		1.66	0.749 (U)	0.505 (U)			
7/12/2018	1.42				0.751 (U)		0.188 (U)
9/12/2018		0.217 (U)	0.2 (U)				
9/13/2018	0.766 (U)			0.313 (U)			0.0542 (U)
9/14/2018					1.01 (U)		
10/4/2018		1.14			1.05		
10/24/2018		0.441 (U)					
10/1/2019				1.01 (U)			
10/2/2019	1.48	0.712 (U)	0.0883 (U)				
10/3/2019					1.62 (U)		1.37
3/24/2020		0.898 (U)					
3/25/2020	0.91 (U)		1.79	0.333 (U)			
3/26/2020					0.473 (U)		0.43 (U)
8/25/2020			0.405 (U)	0.34 (U)			
8/26/2020	0.95 (U)				0.782 (U)		0.572 (U)
10/6/2020		0.929 (U)	0.276 (U)	0.371 (U)			
10/7/2020	1.01 (U)				0.442 (U)		0.232 (U)
3/3/2021	0.545 (U)		0.907 (U)	0.836 (U)			
3/4/2021					1.03 (U)		0.529 (U)
3/8/2021		0.475 (U)					
9/14/2021		0.972 (U)		0.68 (U)			
9/15/2021	1.07 (U)		0.0517 (U)				
9/16/2021					0.184 (U)		0.382 (U)
1/25/2022		0.146 (U)					
1/26/2022	0.282 (U)		0.0386 (U)	0.449 (U)			
1/27/2022					0.259 (U)	1.13	0.315 (U)
8/24/2022	0.764 (U)	0.0268 (U)	0.781 (U)	0.342 (U)	0.764 (U)		
8/25/2022							0.771 (U)
8/26/2022						0.488 (U)	
2/14/2023		0.486 (U)	0.102 (U)	0.151 (U)			
2/15/2023	0.484 (U)						0.496 (U)
2/16/2023					0.765	0.193 (U)	
9/19/2023	1.21 (U)	0.769 (U)	1.07 (U)	0.804 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/20/2023							0.623 (U)
9/21/2023					0.809 (U)	0.401 (U)	
2/27/2024	0.437 (U)	0.588 (U)		1.41			
2/28/2024			0.186 (U)				0.676 (U)
2/29/2024					0.478 (U)	0.7 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							0.06 (J)	
8/31/2016	0.13 (J)							0.13 (J)
9/1/2016		0.06 (J)						
9/6/2016			0.09 (J)					
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)		
12/6/2016							0.06 (J)	
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)					0.13 (J)
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)		
3/21/2017	<0.1						0.004 (J)	0.05 (J)
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)			
3/23/2017						0.14 (J)		
7/11/2017	0.05 (J)		0.05 (J)				0.05 (J)	0.05 (J)
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)		
10/17/2017							<0.1	
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)			<0.1
10/19/2017						<0.3		
2/20/2018	0.04 (J)						0.098 (J)	0.3 (J)
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37		
7/11/2018	<0.1						<0.1	0.077 (J)
7/12/2018		<0.1	<0.1			0.17 (J)		
8/15/2018					<0.1			
8/16/2018				0.073 (J)				
9/12/2018	<0.1						0.034 (J)	
9/13/2018		0.15 (J)	<0.1		<0.1			<0.1
9/14/2018				<0.1		<0.3		
3/26/2019							<0.1	
3/27/2019	<0.1		<0.1		<0.1			<0.1
3/28/2019		0.1		0.15		0.074		
9/10/2019								<0.1
10/1/2019							0.062 (X)	
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)				
10/3/2019					0.043 (X)	0.084 (X)		
3/24/2020							<0.1	
3/25/2020	<0.1			<0.1				0.066 (J)
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)		
8/25/2020							<0.1	
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)		0.057 (J)
8/27/2020					<0.1			
10/6/2020	<0.1		<0.1				<0.1	0.052 (J)
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)		
3/3/2021	<0.1					0.058 (J)	<0.1	<0.1
3/4/2021		<0.1	<0.1	<0.1	<0.1			
9/14/2021							<0.1	
9/15/2021	<0.1	<0.1	<0.1					<0.1
9/16/2021				0.052 (J)	<0.1	0.067 (J)		
1/25/2022							<0.1	
1/26/2022	<0.1	<0.1	<0.1					<0.1
1/27/2022				<0.1	<0.1	0.056 (J)		
8/24/2022							0.08 (J)	
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)		0.074 (J)
2/14/2023	<0.1						0.063 (J)	0.084 (J)
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				0.077 (J)				
9/19/2023			<0.1				0.06 (J)	
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)		0.062 (J)
2/28/2024		0.059 (J)					<0.1	0.07 (J)
2/29/2024	<0.1		<0.1	0.068 (J)	<0.1	0.078 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.1
9/8/2016	0.25 (J)						
10/18/2016			0.16 (J)	0.11 (J)			
12/6/2016			0.15 (J)				
12/7/2016				0.07 (J)			0.15 (J)
12/8/2016	0.22 (J)				0.21 (J)		
3/21/2017			0.02 (J)				
3/22/2017	0.16 (J)						0.09 (J)
3/23/2017				<0.1	0.18 (J)		
7/11/2017	0.23 (J)		0.06 (J)	0.02 (J)			
7/12/2017					0.06 (J)		0.02 (J)
10/17/2017			0.05 (J)	<0.1			
10/18/2017	0.28 (J)						
10/19/2017					<0.1		<0.1
2/20/2018			0.21 (J)	<0.1			
2/21/2018	0.29 (J)				0.039 (J)		0.045 (J)
4/12/2018		<0.1					
5/23/2018		0.063 (J)					
6/13/2018		0.11 (J)					
7/11/2018		<0.1	0.087 (J)	<0.1			
7/12/2018	0.21 (J)				<0.1		<0.1
8/17/2018		<0.1					
9/12/2018		0.093 (J)	0.049 (J)				
9/13/2018	0.22 (J)			<0.1			<0.1
9/14/2018					<0.1		
10/4/2018		0.15 (J)			0.15 (J)		
10/24/2018		0.29 (J)					
3/26/2019			<0.1				
3/27/2019	0.37	0.04		<0.1			
3/28/2019					<0.1		<0.1
10/1/2019				0.042 (X)			
10/2/2019	0.16 (X)	0.11 (X)	0.057 (X)				
10/3/2019					0.06 (X)		0.041 (X)
3/24/2020		0.051 (J)					
3/25/2020	0.13 (J)		<0.1	<0.1			
3/26/2020					<0.1		<0.1
8/25/2020			<0.1	<0.1			
8/26/2020	0.14	0.057 (J)			<0.1		<0.1
10/6/2020		0.073 (J)	<0.1	<0.1			
10/7/2020	0.13				<0.1		<0.1
3/3/2021	0.12		<0.1	<0.1			
3/4/2021					<0.1		<0.1
3/8/2021		<0.1					
9/14/2021		0.089 (J)		<0.1			
9/15/2021	0.14		<0.1				
9/16/2021					<0.1		<0.1
1/25/2022		0.071 (J)					
1/26/2022	0.11		<0.1	<0.1			
1/27/2022					<0.1	0.057 (J)	<0.1
8/24/2022	0.15	0.088 (J)	0.069 (J)	0.058 (J)	0.092 (J)		
8/25/2022							0.056 (J)
8/26/2022						0.083 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/14/2023		0.076 (J)	0.059 (J)	<0.1			
2/15/2023	0.16						0.05 (J)
2/16/2023					0.082 (J)	0.077 (J)	
9/19/2023	0.14	0.094 (J)	0.053 (J)	<0.1			
9/20/2023							<0.1
9/21/2023					0.074 (J)	0.074 (J)	
2/27/2024	0.13	0.084 (J)		<0.1			
2/28/2024			0.06 (J)				<0.1
2/29/2024					0.068 (J)	0.067 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					<0.001
12/8/2016				<0.001	<0.001	<0.001		
3/21/2017	<0.001						<0.001	<0.001
3/22/2017		5E-05 (J)	<0.001	<0.001	<0.001			
3/23/2017						<0.001		
7/11/2017	<0.001		<0.001				<0.001	<0.001
7/12/2017		<0.001		<0.001	<0.001	<0.001		
10/17/2017							0.0001 (J)	
10/18/2017	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001
10/19/2017						<0.001		
2/20/2018	<0.001						<0.001	<0.001
2/21/2018		<0.001	<0.001	<0.001	0.00043 (J)	<0.001		
7/11/2018	<0.001						<0.001	<0.001
7/12/2018		<0.001	<0.001			<0.001		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	<0.001		<0.001			<0.001
9/14/2018				<0.001		<0.001		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	<0.001	8.1E-05 (X)	<0.001				
10/3/2019					<0.001	<0.001		
3/24/2020							6.2E-05 (J)	
3/25/2020	<0.001			<0.001				0.00015 (J)
3/26/2020		<0.001	<0.001		<0.001	<0.001		
8/25/2020							6.5E-05 (J)	
8/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				6.6E-05 (J)	4.7E-05 (J)
10/7/2020		<0.001		<0.001	4.2E-05 (J)	4.2E-05 (J)		
3/3/2021	<0.001					<0.001	5.5E-05 (J)	5.8E-05 (J)
3/4/2021		<0.001	<0.001	<0.001	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	<0.001	<0.001					<0.001
9/16/2021				<0.001	<0.001	<0.001		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				<0.001	<0.001	<0.001		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	<0.001		
2/16/2023				<0.001				
9/19/2023			<0.001				<0.001	
9/20/2023	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.001					<0.001	<0.001
2/29/2024	<0.001		<0.001	<0.001	<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	0.0001 (J)			
12/6/2016			<0.001				
12/7/2016				<0.001			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			<0.001				
3/22/2017	<0.001						<0.001
3/23/2017				0.0002 (J)	9E-05 (J)		
7/11/2017	<0.001		<0.001	<0.001			
7/12/2017					<0.001		<0.001
10/17/2017			0.0005 (J)	7E-05 (J)			
10/18/2017	<0.001						
10/19/2017					<0.001		<0.001
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		<0.001					
10/1/2019				<0.001			
10/2/2019	<0.001	4.7E-05 (X)	8.1E-05 (X)				
10/3/2019					4.7E-05 (X)		<0.001
3/24/2020		<0.001					
3/25/2020	<0.001		<0.001	<0.001			
3/26/2020					<0.001		<0.001
8/25/2020			<0.001	6.3E-05 (J)			
8/26/2020	<0.001	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	<0.001				<0.001		<0.001
3/3/2021	<0.001		<0.001	<0.001			
3/4/2021					<0.001		4.1E-05 (J)
3/8/2021		6.2E-05 (J)					
9/14/2021		<0.001		<0.001			
9/15/2021	<0.001		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	<0.001		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	<0.001						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.001	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	
2/27/2024	<0.001	<0.001		<0.001			
2/28/2024			<0.001				<0.001
2/29/2024					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.03	
8/31/2016	<0.03							<0.03
9/1/2016		<0.03						
9/6/2016			<0.03					
9/7/2016				<0.03	<0.05	0.0082 (J)		
12/6/2016							<0.03	
12/7/2016	0.003 (J)	<0.03	<0.03					<0.03
12/8/2016				<0.03	<0.05	0.0061 (J)		
3/21/2017	<0.03						<0.03	<0.03
3/22/2017		0.0011 (J)	<0.03	0.0021 (J)	0.0029 (J)			
3/23/2017						0.0122 (J)		
7/11/2017	<0.03		<0.03				<0.03	<0.03
7/12/2017		<0.03		0.002 (J)	0.0024 (J)	0.013 (J)		
10/17/2017							<0.03	
10/18/2017	<0.03	<0.03	<0.03	0.002 (J)	0.0027 (J)			<0.03
10/19/2017						0.013 (J)		
2/20/2018	<0.03						<0.03	<0.03
2/21/2018		<0.03	<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)		
7/11/2018	<0.03						<0.03	<0.03
7/12/2018		0.0012 (J)	<0.03			0.013 (J)		
8/15/2018					0.0027 (J)			
8/16/2018				0.0027 (J)				
9/12/2018	<0.03						<0.03	
9/13/2018		0.0013 (J)	<0.03		0.0029 (J)			<0.03
9/14/2018				0.0025 (J)		0.018 (J)		
9/10/2019								<0.03
10/1/2019							<0.03	
10/2/2019	<0.03	0.0013 (X)	<0.03	0.0024 (X)				
10/3/2019					0.0027 (X)	0.016 (X)		
3/24/2020							<0.03	
3/25/2020	<0.03			0.003 (J)				0.0011 (J)
3/26/2020		0.0014 (J)	<0.03		0.0027 (J)	0.013 (J)		
8/25/2020							<0.03	
8/26/2020	<0.03	0.0013 (J)	<0.03	0.0028 (J)		0.011 (J)		0.0011 (J)
8/27/2020					0.0025 (J)			
10/6/2020	<0.03		<0.03				<0.03	0.00097 (J)
10/7/2020		0.0013 (J)		0.0029 (J)	0.003 (J)	0.013 (J)		
3/3/2021	<0.03					0.015 (J)	<0.03	0.001 (J)
3/4/2021		0.0014 (J)	<0.03	0.002 (J)	0.0029 (J)			
9/14/2021							<0.03	
9/15/2021	<0.03	0.0013 (J)	<0.03					0.00085 (J)
9/16/2021				0.0021 (J)	0.0023 (J)	0.013 (J)		
1/25/2022							<0.03	
1/26/2022	<0.03	0.0013 (J)	<0.03					<0.03
1/27/2022				0.0022 (J)	0.003 (J)	0.016 (J)		
8/24/2022							<0.03	
8/25/2022	<0.03	0.0012 (J)	<0.03	0.0018 (J)	0.0033 (J)	0.012 (J)		<0.03
2/14/2023	<0.03						<0.03	<0.03
2/15/2023		0.001 (J)	<0.03		0.0027 (J)	0.011 (J)		
2/16/2023				0.0014 (J)				
9/19/2023			<0.03				<0.03	
9/20/2023	<0.03	0.0014 (J)		0.0012 (J)	0.0028 (J)	0.014 (J)		0.00088 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.03					<0.03	<0.03
2/29/2024	<0.03		<0.03	<0.03	0.0054 (J)	0.012 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							0.0022 (J)
9/8/2016	0.0038 (J)						
10/18/2016			<0.03	<0.03			
12/6/2016			<0.03				
12/7/2016				<0.03			0.0023 (J)
12/8/2016	0.0038 (J)				<0.03		
3/21/2017			<0.03				
3/22/2017	0.0068 (J)						0.0025 (J)
3/23/2017				<0.03	<0.03		
7/11/2017	0.0059 (J)		<0.03	<0.03			
7/12/2017					<0.03		0.0033 (J)
10/17/2017			<0.03	<0.03			
10/18/2017	0.0057 (J)						
10/19/2017					<0.03		<0.25
2/20/2018			<0.03	<0.03			
2/21/2018	0.0063 (J)				<0.03		0.0034 (J)
4/12/2018		<0.03					
5/23/2018		<0.03					
6/13/2018		<0.03					
7/11/2018		0.0011 (J)	<0.03	<0.03			
7/12/2018	0.0063 (J)				<0.03		0.0038 (J)
8/17/2018		0.0024 (J)					
9/12/2018		0.0025 (J)	<0.03				
9/13/2018	0.0061 (J)			<0.03			0.0026 (J)
9/14/2018					<0.03		
10/4/2018		0.0021 (J)			<0.03		
10/24/2018		0.0021 (J)					
10/1/2019				<0.03			
10/2/2019	0.0074 (X)	0.0016 (X)	<0.03				
10/3/2019					<0.03		0.0032 (X)
3/24/2020		0.0019 (J)					
3/25/2020	0.0066 (J)		<0.03	<0.03			
3/26/2020					<0.03		0.0031 (J)
8/25/2020			<0.03	<0.03			
8/26/2020	0.0065 (J)	0.0015 (J)			<0.03		0.0023 (J)
10/6/2020		0.00099 (J)	<0.03	<0.03			
10/7/2020	0.0063 (J)				<0.03		0.0023 (J)
3/3/2021	0.0061 (J)		<0.03	<0.03			
3/4/2021					<0.03		0.0031 (J)
3/8/2021		0.0019 (J)					
9/14/2021		0.0013 (J)		<0.03			
9/15/2021	0.0061 (J)		<0.03				
9/16/2021					<0.03		0.0025 (J)
1/25/2022		0.0012 (J)					
1/26/2022	0.008 (J)		<0.03	<0.03			
1/27/2022					<0.03	0.002 (J)	0.0039 (J)
8/24/2022	0.0073 (J)	0.0012 (J)	<0.03	<0.03	<0.03		
8/25/2022							0.003 (J)
8/26/2022						0.0013 (J)	
2/14/2023		0.001 (J)	<0.03	<0.03			
2/15/2023	0.0057 (J)						0.0037 (J)
2/16/2023					<0.03	0.00082 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.0064 (J)	<0.03	0.00079 (J)	<0.03			
9/20/2023							0.0023 (J)
9/21/2023					<0.03	0.00089 (J)	
2/27/2024	0.007 (J)	<0.03		<0.03			
2/28/2024			<0.03				0.0024 (J)
2/29/2024					<0.03	<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.0002	
8/31/2016	<0.0002							<0.0002
9/1/2016		<0.0002						
9/6/2016			<0.0002					
9/7/2016				<0.0002	<0.0002	<0.0002		
12/6/2016							<0.0002	
12/7/2016	7E-05 (J)	<0.0002	<0.0002					9E-05 (J)
12/8/2016				<0.0002	<0.0002	<0.0002		
3/21/2017	<0.0002						<0.0002	<0.0002
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002			
3/23/2017						<0.0002		
7/11/2017	<0.0002		<0.0002				<0.0002	<0.0002
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002		
10/17/2017							<0.0002	
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
10/19/2017						<0.0002		
2/20/2018	<0.0002						<0.0002	<0.0002
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)		
7/11/2018	<0.0002						<0.0002	<0.0002
7/12/2018		<0.0002	<0.0002			<0.0002		
8/15/2018					<0.0002			
8/16/2018				<0.0002				
9/12/2018	<0.0002						<0.0002	
9/13/2018		<0.0002	<0.0002		<0.0002			<0.0002
9/14/2018				<0.0002		<0.0002		
8/25/2020							9.9E-05 (J)	
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)		0.00017 (J)
8/27/2020					<0.0002			
10/6/2020	<0.0002		<0.0002				<0.0002	<0.0002
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002		
3/3/2021	<0.0002					<0.0002	<0.0002	<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002			
9/14/2021							<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002					<0.0002
9/16/2021				<0.0002	<0.0002	<0.0002		
1/25/2022							<0.0002	
1/26/2022	<0.0002	<0.0002	<0.0002					<0.0002
1/27/2022				<0.0002	<0.0002	<0.0002		
8/24/2022							<0.0002	
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/14/2023	<0.0002						<0.0002	<0.0002
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002		
2/16/2023				<0.0002				
9/19/2023			<0.0002				<0.0002	
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
2/28/2024		<0.0002					<0.0002	<0.0002
2/29/2024	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.0002
9/8/2016	<0.0002						
10/18/2016			<0.0002	<0.0002			
12/6/2016			<0.0002				
12/7/2016				<0.0002			6E-05 (J)
12/8/2016	<0.0002				<0.0002		
3/21/2017			<0.0002				
3/22/2017	<0.0002						<0.0002
3/23/2017				<0.0002	<0.0002		
7/11/2017	<0.0002		<0.0002	<0.0002			
7/12/2017					<0.0002		<0.0002
10/17/2017			<0.0002	<0.0002			
10/18/2017	<0.0002						
10/19/2017					<0.0002		<0.0002
2/20/2018			<0.0002	<0.0002			
2/21/2018	5.3E-05 (J)				4.3E-05 (J)		5.3E-05 (J)
4/12/2018		<0.0002					
5/23/2018		<0.0002					
6/13/2018		4.9E-05 (J)					
7/11/2018		<0.0002	<0.0002	<0.0002			
7/12/2018	<0.0002				<0.0002		<0.0002
8/17/2018		<0.0002					
9/12/2018		<0.0002	<0.0002				
9/13/2018	<0.0002			<0.0002			<0.0002
9/14/2018					4.1E-05 (J)		
10/4/2018		<0.0002			<0.0002		
10/24/2018		5.2E-05 (J)					
8/25/2020			0.0001 (J)	<0.0002			
8/26/2020	<0.0002	<0.0002			0.00011 (J)		<0.0002
10/6/2020		<0.0002	<0.0002	<0.0002			
10/7/2020	<0.0002				<0.0002		<0.0002
3/3/2021	<0.0002		<0.0002	<0.0002			
3/4/2021					<0.0002		<0.0002
3/8/2021		<0.0002					
9/14/2021		<0.0002		<0.0002			
9/15/2021	<0.0002		<0.0002				
9/16/2021					<0.0002		<0.0002
1/25/2022		<0.0002					
1/26/2022	<0.0002		<0.0002	<0.0002			
1/27/2022					<0.0002	<0.0002	<0.0002
8/24/2022		0.00013 (J)	<0.0002	0.00014 (J)	<0.0002		
8/25/2022							<0.0002
8/26/2022						<0.0002	
10/11/2022	<0.0002						
2/14/2023		<0.0002	<0.0002	<0.0002			
2/15/2023	<0.0002						<0.0002
2/16/2023					<0.0002	<0.0002	
9/19/2023	<0.0002	<0.0002	<0.0002	<0.0002			
9/20/2023							<0.0002
9/21/2023					<0.0002	<0.0002	
2/27/2024	<0.0002	<0.0002		<0.0002			
2/28/2024			<0.0002				<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/29/2024					<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.01	
8/31/2016	<0.01							<0.01
9/1/2016		<0.01						
9/6/2016			<0.01					
9/7/2016				<0.01	<0.01	0.0027 (J)		
12/6/2016							0.0019 (J)	
12/7/2016	<0.01	<0.01	<0.01					<0.01
12/8/2016				<0.01	<0.01	0.0022 (J)		
3/21/2017	0.0005 (J)						0.0018 (J)	0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)	<0.01			
3/23/2017						0.0025 (J)		
7/11/2017	<0.01		<0.01				0.0018 (J)	<0.01
7/12/2017		<0.01		<0.01	<0.01	0.0022 (J)		
10/17/2017							0.0016 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01
10/19/2017						0.0021 (J)		
2/20/2018	<0.01						<0.01	<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01		
7/11/2018	<0.01						<0.01	<0.01
7/12/2018		<0.01	<0.01			0.0022 (J)		
8/15/2018					<0.01			
8/16/2018				<0.01				
9/12/2018	<0.01						<0.01	
9/13/2018		<0.01	<0.01		<0.01			<0.01
9/14/2018				<0.01		0.0023 (J)		
9/10/2019								<0.01
10/1/2019							0.001 (X)	
10/2/2019	<0.01	<0.01	<0.01	<0.01				
10/3/2019					<0.01	0.0024 (X)		
3/24/2020							0.001 (J)	
3/25/2020	<0.01			<0.01				0.0011 (J)
3/26/2020		<0.01	<0.01		<0.01	0.0021 (J)		
8/25/2020							0.001 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01		0.002 (J)		<0.01
8/27/2020					<0.01			
10/6/2020	<0.01		<0.01				0.0009 (J)	<0.01
10/7/2020		<0.01		<0.01	<0.01	0.0019 (J)		
3/3/2021	<0.01					0.0021 (J)	0.00076 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01	<0.01			
9/14/2021							0.00086 (J)	
9/15/2021	<0.01	<0.01	<0.01					<0.01
9/16/2021				<0.01	<0.01	0.0021 (J)		
1/25/2022							<0.01	
1/26/2022	<0.01	<0.01	<0.01					<0.01
1/27/2022				<0.01	<0.01	0.0022 (J)		
8/24/2022							0.00088 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	<0.01	0.0017 (J)		<0.01
2/14/2023	<0.01						0.0013 (J)	<0.01
2/15/2023		<0.01	<0.01		<0.01	0.0016 (J)		
2/16/2023				<0.01				
9/19/2023			<0.01				0.0013 (J)	
9/20/2023	<0.01	<0.01		<0.01	<0.01	0.0019 (J)		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.01					0.00083 (J)	<0.01
2/29/2024	<0.01		<0.01	<0.01	<0.01	0.0018 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.01
9/8/2016	<0.01						
10/18/2016			<0.01	<0.01			
12/6/2016			<0.01				
12/7/2016				<0.01			<0.01
12/8/2016	<0.01				<0.01		
3/21/2017			0.0005 (J)				
3/22/2017	0.001 (J)						<0.01
3/23/2017				<0.01	<0.01		
7/11/2017	<0.01		<0.01	<0.01			
7/12/2017					<0.01		<0.01
10/17/2017			<0.01	<0.01			
10/18/2017	<0.01						
10/19/2017					<0.01		<0.01
2/20/2018			<0.01	<0.01			
2/21/2018	<0.01				<0.01		<0.01
4/12/2018		<0.01					
5/23/2018		<0.01					
6/13/2018		<0.01					
7/11/2018		<0.01	<0.01	<0.01			
7/12/2018	<0.01				<0.01		<0.01
8/17/2018		<0.01					
9/12/2018		<0.01	<0.01				
9/13/2018	<0.01			<0.01			<0.01
9/14/2018					<0.01		
10/4/2018		<0.01			<0.01		
10/24/2018		<0.01					
10/1/2019				<0.01			
10/2/2019	<0.01	<0.01	<0.01				
10/3/2019					<0.01		<0.01
3/24/2020		<0.01					
3/25/2020	<0.01		<0.01	<0.01			
3/26/2020					<0.01		<0.01
8/25/2020			<0.01	<0.01			
8/26/2020	<0.01	<0.01			<0.01		<0.01
10/6/2020		0.00069 (J)	<0.01	<0.01			
10/7/2020	<0.01				<0.01		<0.01
3/3/2021	<0.01		<0.01	<0.01			
3/4/2021					<0.01		<0.01
3/8/2021		<0.01					
9/14/2021		0.00077 (J)		<0.01			
9/15/2021	<0.01		<0.01				
9/16/2021					<0.01		<0.01
1/25/2022		<0.01					
1/26/2022	<0.01		<0.01	<0.01			
1/27/2022					<0.01	0.00085 (J)	<0.01
8/24/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/25/2022							<0.01
8/26/2022						<0.01	
2/14/2023		<0.01	<0.01	<0.01			
2/15/2023	<0.01						<0.01
2/16/2023					<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.01	0.0008 (J)	<0.01	<0.01			
9/20/2023							<0.01
9/21/2023					<0.01	<0.01	
2/27/2024	<0.01	0.00069 (J)		<0.01			
2/28/2024			<0.01				<0.01
2/29/2024					<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (SU) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							7.67	
8/31/2016	6.97							6.75
9/1/2016		7.21						
9/6/2016			7.23					
9/7/2016				7.02	6.92	6.71		
12/6/2016							7.57	
12/7/2016	6.85	7.13	7.3					6.64
12/8/2016				6.95	6.9	6.61		
3/21/2017	7.04						7.54	6.73
3/22/2017		7.04	7.2	7.05	7			
3/23/2017						6.69		
7/11/2017	6.88		7.31				7.43	6.66
7/12/2017		7.09		7.06	6.95	6.69		
10/17/2017							7.7	
10/18/2017	6.77	7.2	7.28	6.99		6.88		6.73
10/19/2017						6.85		
2/20/2018	7.32 (D)						7.57	7.11
2/21/2018		7.11	7.1	6.95	6.89	6.66		
7/11/2018	7.12						7.48	7
7/12/2018		7.07	7.14	7.06	7.01	6.84		
8/15/2018					6.87			
8/16/2018				7.01				
9/12/2018	6.87						7.41	
9/13/2018		7.01	7.08		6.86			6.56
9/14/2018				6.83		6.76		
3/26/2019							7.49	
3/27/2019	6.98		7.23		6.92			6.75
3/28/2019		7.84		6.97		6.67		
9/10/2019								6.78
10/1/2019							7.5	
10/2/2019	6.96	7.22	7.22	6.99				
10/3/2019					6.78	6.93		
3/24/2020							7.79	
3/25/2020	7.02			6.93				6.84
3/26/2020		7.08	7.12		7.01	6.7		
8/25/2020							7.49	
8/26/2020	6.98	7.08	7.18	6.98		6.68		6.64
8/27/2020					6.88			
10/6/2020	7.01		7.24				7.35	6.78
10/7/2020		7.11		7.04	6.91	6.78		
3/3/2021	6.99					6.78	7.56	6.79
3/4/2021		7.09	7.34	7.09	6.91			
9/14/2021							7.45	
9/15/2021	6.94	7.09	7.12					6.72
9/16/2021				7.03	6.85	6.77		
1/25/2022							7.51	
1/26/2022	7.05	7.33	7.26					6.83
1/27/2022				7.03	6.92	6.8		
8/24/2022							7.49	
8/25/2022	6.93	7.15	7.14	7.05	6.76	6.67		6.76
2/14/2023	7.04						7.43	6.75
2/15/2023		7.09	7.1		6.73	6.66		

Time Series

Constituent: pH (SU) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/16/2023				7.14				
9/19/2023			7.08				7.44	
9/20/2023	6.94	7.07		7.16	6.76	6.83		6.86
2/28/2024		7.18					7.41	6.79
2/29/2024	7.07		7.19	7.2	6.94	6.82		

Time Series

Constituent: pH (SU) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							7.07
9/8/2016	7.1						
10/4/2016					6.88		
10/5/2016					6.91		
10/17/2016				7.43			
10/18/2016			7.15	7.45			
12/6/2016			7.04				
12/7/2016				7.29			6.85
12/8/2016	6.98				6.86		
3/21/2017			7.01				
3/22/2017	7.16						6.99
3/23/2017				7.26	6.9		
7/11/2017	7.15		6.96	7.31	7.82 (o)		
7/12/2017					6.81		6.83
10/17/2017		7.61	7.31	7.29			
10/18/2017	7.09						
10/19/2017					6.86		6.91
2/20/2018				7.26			
2/21/2018	7.12				7.02		6.97
7/11/2018		9.48	7.26	7.39			
7/12/2018			7.01		6.82		6.85
9/12/2018		9.07	7.02				
9/13/2018	7.03			7.25			6.88
9/14/2018					6.75		
3/26/2019			7				
3/27/2019	7.08	8.76		7.42			
3/28/2019					6.96		6.96
10/1/2019				7.43			
10/2/2019	7.2	8.97	7.09				
10/3/2019					7.01		6.85
3/24/2020		8.57					
3/25/2020	7.01		7.15	7.23			
3/26/2020					7		7.12
8/25/2020			7.14	7.53			
8/26/2020	7.09	7.97			6.99		7.01
10/6/2020		8.72	7.01	7.27			
10/7/2020	6.95				7.04		6.98
3/3/2021	7.04		7.14	7.41			
3/4/2021					7.22		6.95
3/8/2021		7.77					
9/14/2021		8.96		7.31			
9/15/2021	7.05		6.99				
9/16/2021					7.1		6.96
1/25/2022		8.4					
1/26/2022	7.28		7.1	7.44			
1/27/2022					7.18	7.3	7.03
8/24/2022	7.1	8.01	7.04	7.34	7.1		
8/25/2022							6.98
8/26/2022						7.09	
10/11/2022	7.13	7.94		7.37			
2/14/2023		7.97	7.09	7.36			
2/15/2023	7.02						6.92

Time Series

Constituent: pH (SU) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					7.13	7.06	
9/19/2023	7.18	8.82	7.02	7.43			
9/20/2023							7.15
9/21/2023					7.05	7.21	
2/27/2024	7.13	8.49		7.39			
2/28/2024			7.11				7.07
2/29/2024					7.14	7.13	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.005	
8/31/2016	0.0012 (J)							0.0014 (J)
9/1/2016		<0.005						
9/6/2016			<0.005					
9/7/2016				<0.005	<0.005	<0.01		
12/6/2016							<0.005	
12/7/2016	<0.005	<0.005	<0.005					<0.01
12/8/2016				<0.005	<0.005	<0.01		
3/21/2017	<0.005						<0.005	<0.01
3/22/2017		<0.005	<0.005	<0.005	<0.005			
3/23/2017						<0.01		
7/11/2017	<0.005		<0.005				<0.005	<0.01
7/12/2017		<0.005		<0.005	<0.005	<0.01		
10/17/2017							<0.005	
10/18/2017	<0.005	<0.005	<0.005	<0.005	<0.005			<0.01
10/19/2017						<0.01		
2/20/2018	<0.005						<0.005	<0.01
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.01		
7/11/2018	<0.005						<0.005	<0.01
7/12/2018		<0.005	<0.005			<0.01		
8/15/2018					<0.005			
8/16/2018				<0.005				
9/12/2018	<0.005						<0.005	
9/13/2018		<0.005	<0.005		<0.005			<0.01
9/14/2018				<0.005		0.0015 (J)		
9/10/2019								0.0018 (X)
10/1/2019							<0.005	
10/2/2019	0.0015 (X)	<0.005	<0.005	<0.005				
10/3/2019					<0.005	0.0034 (X)		
3/24/2020							<0.005	
3/25/2020	<0.005			<0.005				0.003 (J)
3/26/2020		<0.005	<0.005		<0.005	0.0016 (J)		
8/25/2020							<0.005	
8/26/2020	<0.005	0.0018 (J)	<0.005	<0.005		0.0031 (J)		0.0026 (J)
8/27/2020					<0.005			
10/6/2020	<0.005		<0.005				<0.005	0.0027 (J)
10/7/2020		<0.005		<0.005	<0.005	0.0035 (J)		
3/3/2021	<0.005					0.0033 (J)	<0.005	0.0025 (J)
3/4/2021		<0.005	<0.005	<0.005	<0.005			
9/14/2021							<0.005	
9/15/2021	<0.005	<0.005	<0.005					0.0024 (J)
9/16/2021				<0.005	<0.005	0.0033 (J)		
1/25/2022							<0.005	
1/26/2022	<0.005	<0.005	<0.005					0.0023 (J)
1/27/2022				<0.005	<0.005	0.005		
8/24/2022							<0.005	
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		0.0023 (J)
2/14/2023	<0.005						<0.005	0.0015 (J)
2/15/2023		<0.005	<0.005		<0.005	0.0036 (J)		
2/16/2023				<0.005				
9/19/2023			<0.005				<0.005	
9/20/2023	<0.005	<0.005		<0.005	<0.005	0.0024 (J)		0.0023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.005					<0.005	0.0018 (J)
2/29/2024	<0.005		<0.005	<0.005	<0.005	0.0043 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.005
9/8/2016	<0.005						
10/18/2016			<0.005	<0.005			
12/6/2016			<0.005				
12/7/2016				<0.005			<0.005
12/8/2016	<0.005				<0.005		
3/21/2017			<0.005				
3/22/2017	<0.005						<0.005
3/23/2017				<0.005	<0.005		
7/11/2017	<0.005		<0.005	<0.005			
7/12/2017					<0.005		<0.005
10/17/2017			<0.005	<0.005			
10/18/2017	<0.005						
10/19/2017					<0.005		<0.005
2/20/2018			<0.005	<0.005			
2/21/2018	<0.005				<0.005		<0.005
4/12/2018		<0.005					
5/23/2018		<0.005					
6/13/2018		<0.005					
7/11/2018		<0.005	<0.005	<0.005			
7/12/2018	<0.005				<0.005		<0.005
8/17/2018		<0.005					
9/12/2018		<0.005	<0.005				
9/13/2018	<0.005			<0.005			<0.005
9/14/2018					<0.005		
10/4/2018		<0.005			<0.005		
10/24/2018		<0.005					
10/1/2019				<0.005			
10/2/2019	<0.005	<0.005	<0.005				
10/3/2019					<0.005		0.0017 (X)
3/24/2020		<0.005					
3/25/2020	<0.005		<0.005	<0.005			
3/26/2020					<0.005		<0.005
8/25/2020			<0.005	<0.005			
8/26/2020	<0.005	<0.005			<0.005		0.0018 (J)
10/6/2020		<0.005	<0.005	<0.005			
10/7/2020	<0.005				<0.005		<0.005
3/3/2021	<0.005		<0.005	<0.005			
3/4/2021					<0.005		0.0018 (J)
3/8/2021		<0.005					
9/14/2021		<0.005		<0.005			
9/15/2021	<0.005		<0.005				
9/16/2021					<0.005		<0.005
1/25/2022		<0.005					
1/26/2022	<0.005		<0.005	<0.005			
1/27/2022					<0.005	<0.005	0.0018 (J)
8/24/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/25/2022							0.0017 (J)
8/26/2022						<0.005	
2/14/2023		<0.005	<0.005	<0.005			
2/15/2023	<0.005						0.0017 (J)
2/16/2023					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	<0.005	<0.005	<0.005	<0.005			
9/20/2023							0.0015 (J)
9/21/2023					<0.005	<0.005	
2/27/2024	<0.005	<0.005		<0.005			
2/28/2024			<0.005				0.0019 (J)
2/29/2024					<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							2.1	
8/31/2016	4.1							29
9/1/2016		73						
9/6/2016			49					
9/7/2016				99	96	87		
12/6/2016							2.4	
12/7/2016	1.5	71	46					24
12/8/2016				94	94	84		
3/21/2017	2						2.5	31
3/22/2017		80	53	100	95			
3/23/2017						90		
7/11/2017	2		52				2.6	37
7/12/2017		78		100	96	93		
10/17/2017							2.5	
10/18/2017	4.2	82	58	100	99			34
10/19/2017						92		
2/20/2018	2.4						2.3	34.7
2/21/2018		72.2	48.2	98.8	91.8	84.5		
7/11/2018	3.8						2.5	35.4
7/12/2018		80.5	48.8			84.9		
8/15/2018					101			
8/16/2018				111				
9/12/2018	4.3						2	
9/13/2018		84.4	48.7		106			37.4
9/14/2018				102		89.5		
3/26/2019							2.7	
3/27/2019	8.2		46.5		111			41.9
3/28/2019		90.3		94.7		83.5		
9/10/2019								45.1
10/1/2019							2.8	
10/2/2019	6.2	83	48.5	104				
10/3/2019					95.8	84.9		
3/24/2020							3	
3/25/2020	11.9			92.4				47
3/26/2020		83.6	43.5		91	84.9		
10/6/2020	11		42.4				2.4	71.2
10/7/2020		80.7		89.1	87.3	83.3		
3/3/2021	8.8					80.8	2.2	66
3/4/2021		74.1	38.9	66.8	88.6			
9/14/2021							2.6	
9/15/2021	11.4	73.4	37.8					46.8
9/16/2021				70.9	86.9	72.7		
1/25/2022							2.4	
1/26/2022	9.1	77.2	38.9					37.8
1/27/2022				62.1	89.9 (M1)	76.3		
8/24/2022							2.2	
8/25/2022	10.7	75.5	38.7	62.7	96.3	84.4		45.6
2/14/2023	10						1.6	35.1
2/15/2023		75.7 (M1)	38.1		96.6	78.8		
2/16/2023				54.2				
9/19/2023			37.5				2.2	
9/20/2023	12.5	74.9		34.3	93.8	83.4		44.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		77.4					<1	33.5
2/29/2024	13.3		37.9	45.4	92.7	71.5		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							62
9/8/2016	48						
10/18/2016			2.2	2.3			
12/6/2016			6.1				
12/7/2016				1.9			57
12/8/2016	46				100		
3/21/2017			5.7				
3/22/2017	53						61
3/23/2017				1.7	100		
7/11/2017	51		4.8	1.8			
7/12/2017					97		53
10/17/2017			6.4	1.9			
10/18/2017	50						
10/19/2017					97		55
2/20/2018			5.2	2.1			
2/21/2018	46.8				93.6		52.1
4/12/2018		4.8 (J)					
5/23/2018		4.5					
6/13/2018		5.3					
7/11/2018		5.4	3.6	2			
7/12/2018	48.3				89.4		53.9
8/17/2018		4.5					
9/12/2018		4.4	2.7				
9/13/2018	42			2.1			67.5
9/14/2018					88.9		
10/4/2018		5.8			97.8		
10/24/2018		6.2					
3/26/2019			1.6				
3/27/2019	43.7	3.7		2.4			
3/28/2019					76.7		59.6
10/1/2019				2.2			
10/2/2019	43	4.1	1.6				
10/3/2019					72.1		59.6
3/24/2020		3.1					
3/25/2020	39.1		1.5	1.9			
3/26/2020					66.6		57.1
10/6/2020		3.1	0.98 (J)	1.9			
10/7/2020	38.1				54.6		48.9
3/3/2021	39.2		0.6 (J)	2			
3/4/2021					49.3		49.7
3/8/2021		2.7					
9/14/2021		3.8		1.8			
9/15/2021	37.8		0.64 (J)				
9/16/2021					40.4		41.8
1/25/2022		2.9					
1/26/2022	37.5		0.69 (J)	1.9			
1/27/2022					40	94.5	46.7
8/24/2022	35.7	2	0.56 (J)	1.7	34.7		
8/25/2022							47.3
8/26/2022						87.2	
2/14/2023		2.6	0.89 (J)	2			
2/15/2023	37.1						49.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/16/2023					36	77.7	
9/19/2023	34.7	3.2	0.61 (J)	1.5			
9/20/2023							40.7
9/21/2023					34.8	66.7	
2/27/2024	34	2.6		1.4			
2/28/2024			0.54 (J)				40.3
2/29/2024					32.2	65.1	

Time Series

Constituent: TDS (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							136	
8/31/2016	344							400
9/1/2016		284						
9/6/2016			257					
9/7/2016				392	415	508		
12/6/2016							207	
12/7/2016	393	242	248					406
12/8/2016				431	441	556		
3/21/2017	276						128	409
3/22/2017		332	304	456	469			
3/23/2017						482		
7/11/2017	263		265				138	414
7/12/2017		308		445	432	497		
10/17/2017							101	
10/18/2017	261	275	240	349	368			366
10/19/2017						448		
2/20/2018	295						138	429
2/21/2018		312	285	411	409	500		
7/11/2018	294						153	440
7/12/2018		337	285			523		
8/15/2018					422			
8/16/2018				415				
9/12/2018	286						146	
9/13/2018		336	291		438			448
9/14/2018				403		486		
3/26/2019							334	
3/27/2019	281		277		408			410
3/28/2019		337		420		378		
9/10/2019								420
10/1/2019							146	
10/2/2019	312	355	284	415				
10/3/2019					464	485		
3/24/2020							228	
3/25/2020	330			408				454
3/26/2020		330	286		415	440		
10/6/2020	241		261				153	462
10/7/2020		336		392	425	492		
3/3/2021	258					452	134	444
3/4/2021		300	264	325	427			
9/14/2021							150	
9/15/2021	292	326	270					422
9/16/2021				330	419	450		
1/25/2022							148	
1/26/2022	288	308	267					413
1/27/2022				329	433	442		
8/24/2022							139	
8/25/2022	259	319	90	321	446	528		437
2/14/2023	300						200	414
2/15/2023		329	334		477	529		
2/16/2023				299				
9/19/2023			298				146	
9/20/2023	293	328		256	451	512		421

Time Series

Constituent: TDS (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		342					176	430
2/29/2024	308		292	277	473	470		

Time Series

Constituent: TDS (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							373
9/8/2016	293						
10/18/2016			264	152			
12/6/2016			299				
12/7/2016				214			433
12/8/2016	309				503 (o)		
3/21/2017			260				
3/22/2017	299						409
3/23/2017				165	430		
7/11/2017	301		244	162			
7/12/2017					438		374
10/17/2017			218	140			
10/18/2017	256						
10/19/2017					393		318
2/20/2018			264	163			
2/21/2018	297				435		367
4/12/2018		69					
5/23/2018		62					
6/13/2018		93					
7/11/2018		84	273	192			
7/12/2018	310				447		423
8/17/2018		115					
9/12/2018		97	252				
9/13/2018	307			192			394
9/14/2018					447		
10/4/2018		103			450		
10/24/2018		110					
3/26/2019			253				
3/27/2019	287	87		167			
3/28/2019					405		365
10/1/2019				187			
10/2/2019	312	95	263				
10/3/2019					414		405
3/24/2020		123					
3/25/2020	280		278	178			
3/26/2020					336		332
10/6/2020		81	254	169			
10/7/2020	280				337		334
3/3/2021	267		264	166			
3/4/2021					283		335
3/8/2021		126					
9/14/2021		71		179			
9/15/2021	272		256				
9/16/2021					296		307
1/25/2022		68					
1/26/2022	276		262	182			
1/27/2022					274	387	331
8/24/2022			261		265		
8/25/2022							325
8/26/2022						358	
10/11/2022	267	75		173			
2/14/2023		140	257	177			

Time Series

Constituent: TDS (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
2/15/2023	264						335 (D6)
2/16/2023					293	421	
9/19/2023	311	86	265	217			
9/20/2023							302
9/21/2023					300	311	
2/27/2024	287	75		192			
2/28/2024			276				325
2/29/2024					314	334	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
8/30/2016							<0.001	
8/31/2016	<0.001							<0.001
9/1/2016		<0.001						
9/6/2016			<0.001					
9/7/2016				<0.001	<0.001	<0.001		
12/6/2016							<0.001	
12/7/2016	<0.001	<0.001	<0.001					0.0002 (J)
12/8/2016				<0.001	<0.001	0.0003 (J)		
3/21/2017	6E-05 (J)						<0.001	0.0003 (J)
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)			
3/23/2017						0.0003 (J)		
7/11/2017	<0.001		0.0002 (J)				<0.001	0.0002 (J)
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)		
10/17/2017							<0.001	
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)			0.0001 (J)
10/19/2017						0.0005 (J)		
2/20/2018	<0.001						<0.001	0.00026 (J)
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)		
7/11/2018	<0.001						<0.001	0.00018 (J)
7/12/2018		<0.001	<0.001			0.00077 (J)		
8/15/2018					<0.001			
8/16/2018				<0.001				
9/12/2018	<0.001						<0.001	
9/13/2018		<0.001	0.00017 (J)		<0.001			<0.001
9/14/2018				<0.001		0.00076 (J)		
9/10/2019								<0.001
10/1/2019							<0.001	
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)				
10/3/2019					<0.001	0.00071 (X)		
3/24/2020							<0.001	
3/25/2020	<0.001			0.0002 (J)				0.00015 (J)
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)		
8/25/2020							<0.001	
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)		0.00016 (J)
8/27/2020					<0.001			
10/6/2020	<0.001		<0.001				<0.001	<0.001
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)		
3/3/2021	<0.001					0.00072 (J)	<0.001	0.00017 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001			
9/14/2021							<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001					<0.001
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)		
1/25/2022							<0.001	
1/26/2022	<0.001	<0.001	<0.001					<0.001
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)		
8/24/2022							<0.001	
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)		<0.001
2/14/2023	<0.001						<0.001	<0.001
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)		
2/16/2023				0.00038 (J)				
9/19/2023			<0.001				0.00028 (J)	
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)	PZ-23A
2/28/2024		<0.001					<0.001	<0.001
2/29/2024	<0.001		<0.001	<0.001	<0.001	0.0005 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/1/2016							<0.001
9/8/2016	<0.001						
10/18/2016			<0.001	<0.001			
12/6/2016			<0.001				
12/7/2016				0.0002 (J)			<0.001
12/8/2016	<0.001				<0.001		
3/21/2017			6E-05 (J)				
3/22/2017	<0.001						0.0002 (J)
3/23/2017				8E-05 (J)	0.0001 (J)		
7/11/2017	<0.001		<0.001	7E-05 (J)			
7/12/2017					0.0001 (J)		0.0001 (J)
10/17/2017			<0.001	8E-05 (J)			
10/18/2017	<0.001						
10/19/2017					0.0001 (J)		0.0001 (J)
2/20/2018			<0.001	<0.001			
2/21/2018	<0.001				<0.001		<0.001
4/12/2018		<0.001					
5/23/2018		<0.001					
6/13/2018		<0.001					
7/11/2018		<0.001	<0.001	<0.001			
7/12/2018	<0.001				<0.001		<0.001
8/17/2018		<0.001					
9/12/2018		<0.001	<0.001				
9/13/2018	<0.001			<0.001			<0.001
9/14/2018					<0.001		
10/4/2018		<0.001			<0.001		
10/24/2018		0.00016 (J)					
10/1/2019				<0.001			
10/2/2019	0.00024 (X)	<0.001	<0.001				
10/3/2019					0.00018 (X)		7.8E-05 (X)
3/24/2020		<0.001					
3/25/2020	0.00037 (J)		<0.001	<0.001			
3/26/2020					0.00015 (J)		8.5E-05 (J)
8/25/2020			<0.001	<0.001			
8/26/2020	0.00037 (J)	<0.001			<0.001		<0.001
10/6/2020		<0.001	<0.001	<0.001			
10/7/2020	0.00027 (J)				<0.001		<0.001
3/3/2021	0.00036 (J)		<0.001	<0.001			
3/4/2021					<0.001		<0.001
3/8/2021		<0.001					
9/14/2021		<0.001		<0.001			
9/15/2021	0.00066 (J)		<0.001				
9/16/2021					<0.001		<0.001
1/25/2022		<0.001					
1/26/2022	0.00039 (J)		<0.001	<0.001			
1/27/2022					<0.001	<0.001	<0.001
8/24/2022	0.00048 (J)	<0.001	<0.001	<0.001	<0.001		
8/25/2022							<0.001
8/26/2022						<0.001	
2/14/2023		<0.001	<0.001	<0.001			
2/15/2023	0.00045 (J)						<0.001
2/16/2023					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/10/2024 1:27 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

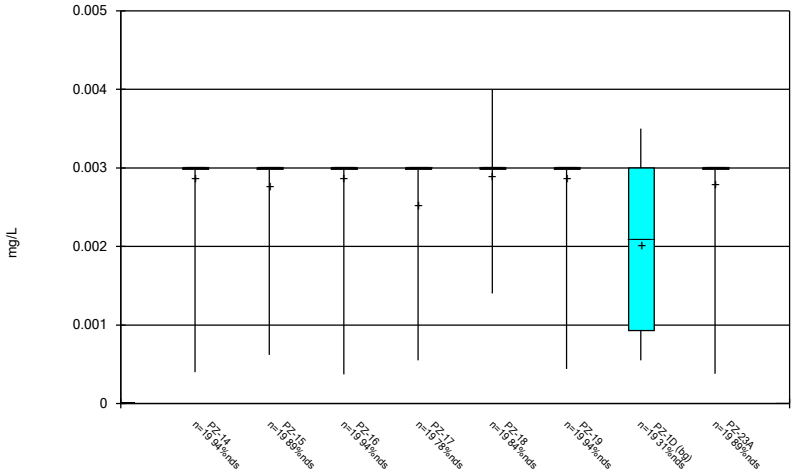
	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-57	PZ-7D
9/19/2023	0.00061 (J)	<0.001	<0.001	<0.001			
9/20/2023							<0.001
9/21/2023					<0.001	<0.001	
2/27/2024	0.00065 (J)	<0.001		<0.001			
2/28/2024			<0.001				<0.001
2/29/2024					<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

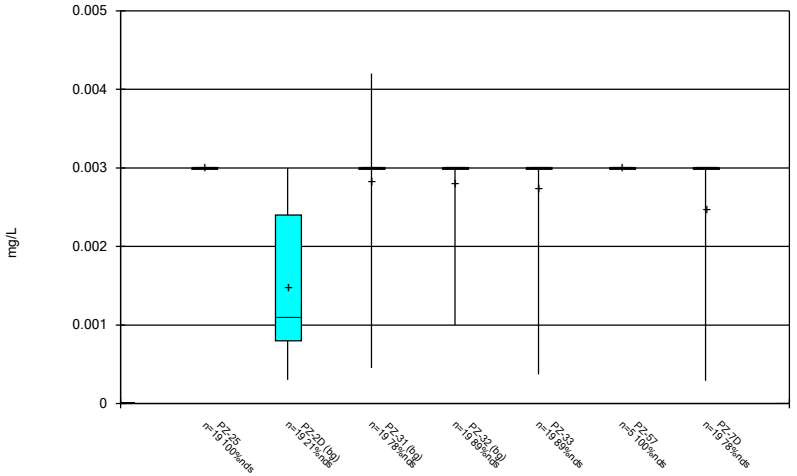


Constituent: Antimony Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

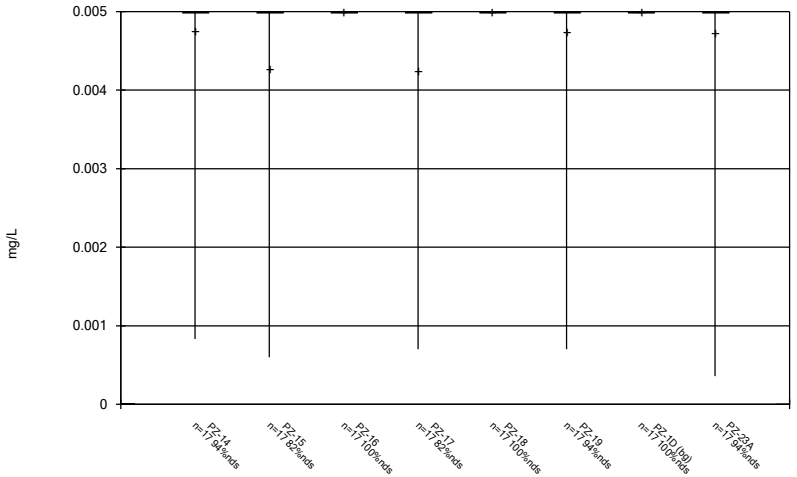


Constituent: Antimony Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

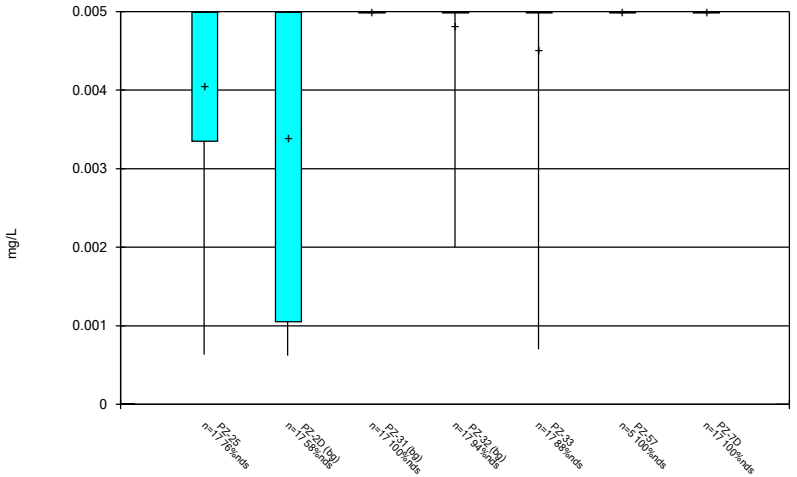


Constituent: Arsenic Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

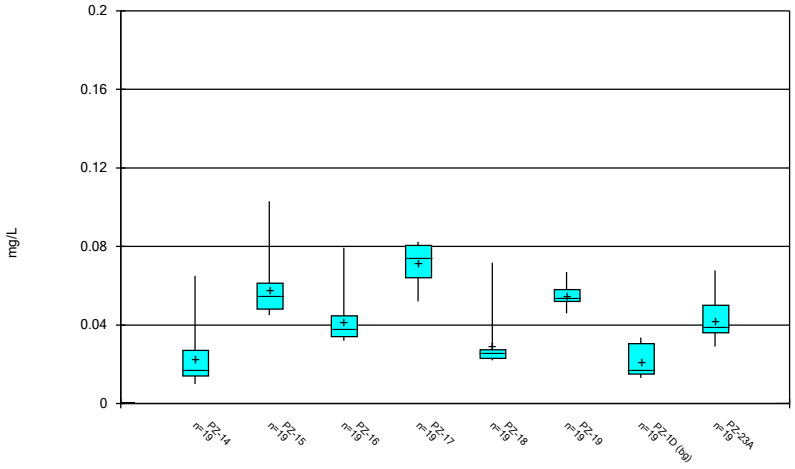


Constituent: Arsenic Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

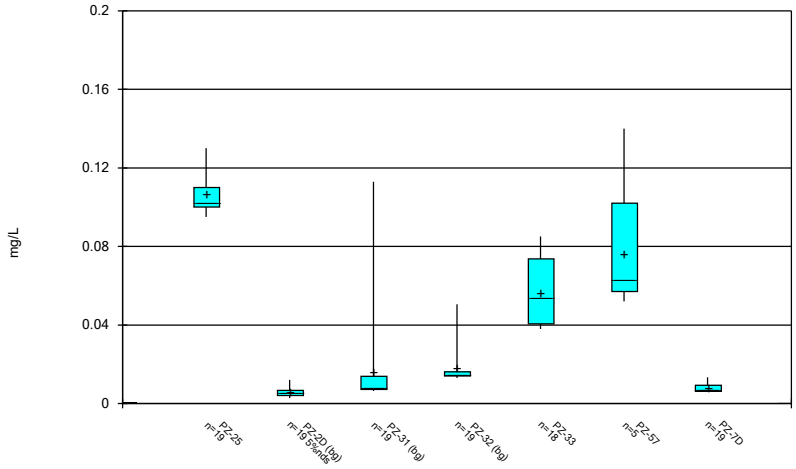


Constituent: Barium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

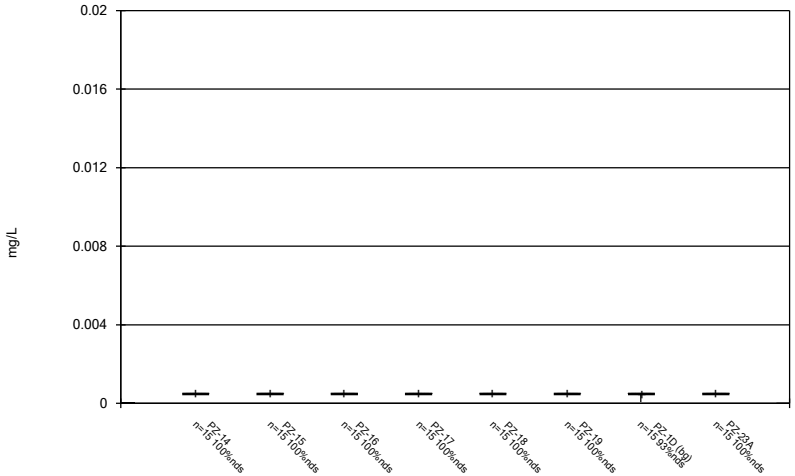


Constituent: Barium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

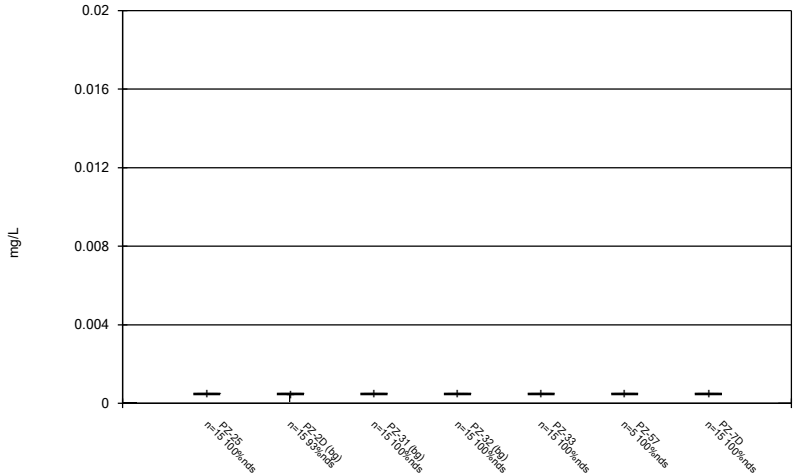


Constituent: Beryllium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

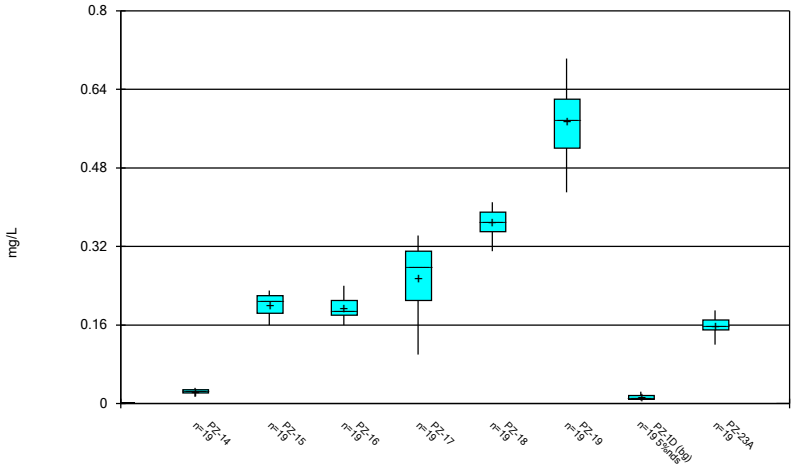


Constituent: Beryllium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

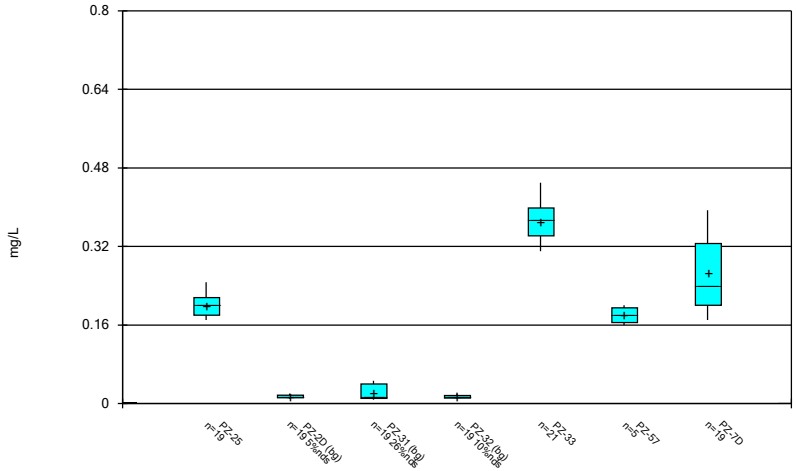


Constituent: Boron Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

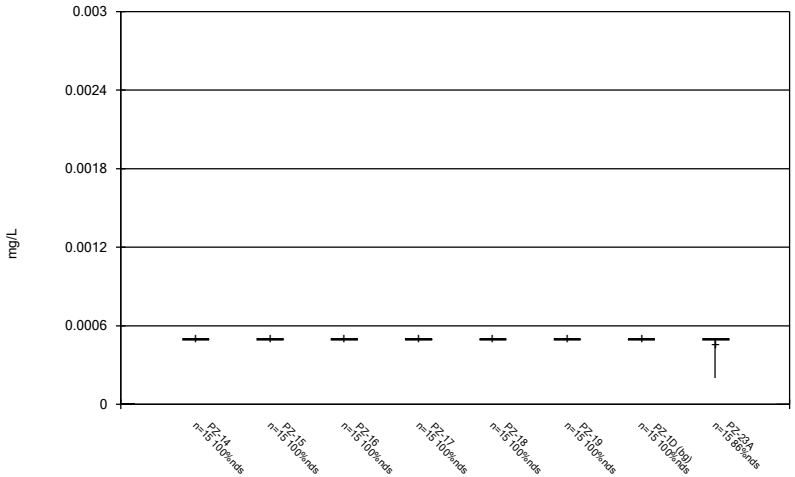


Constituent: Boron Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

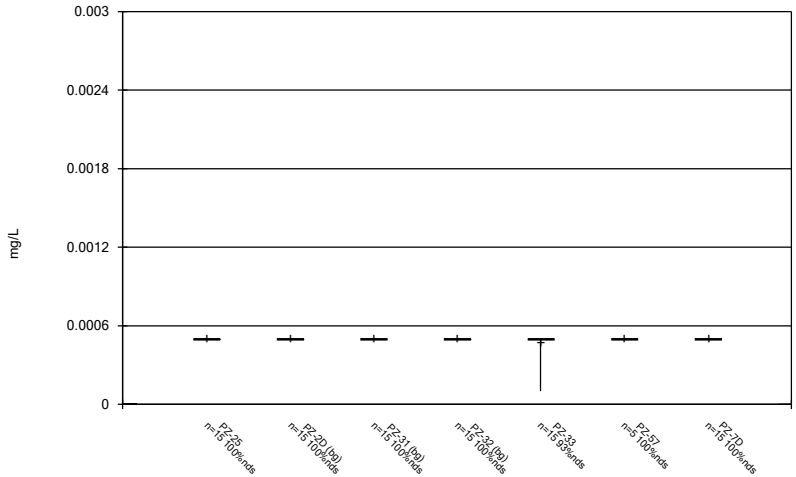


Constituent: Cadmium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

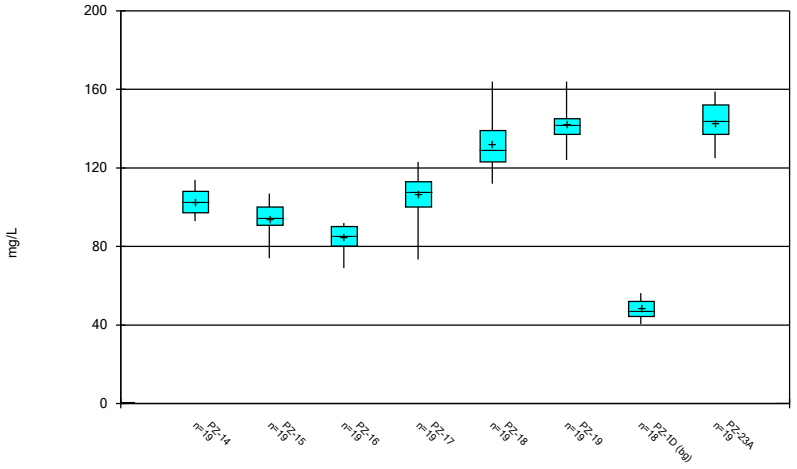


Constituent: Cadmium Analysis Run 4/10/2024 1:29 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

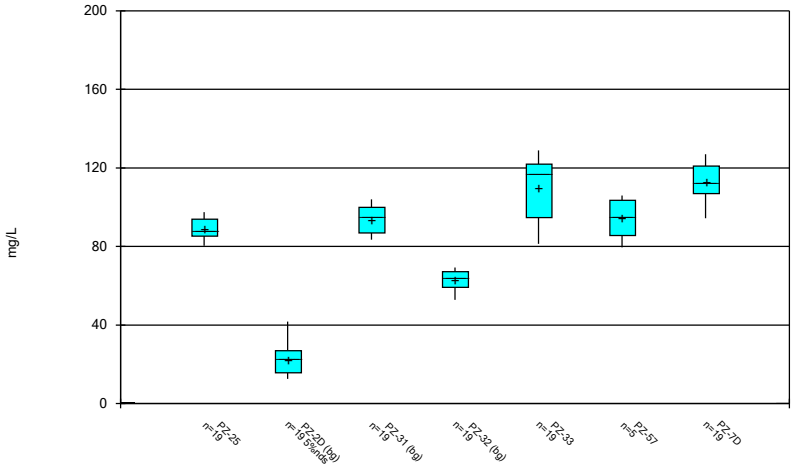
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/10/2024 1:29 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

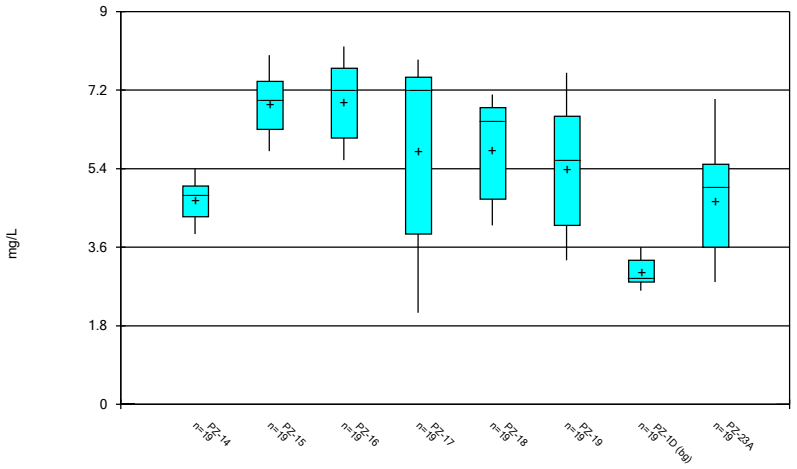
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

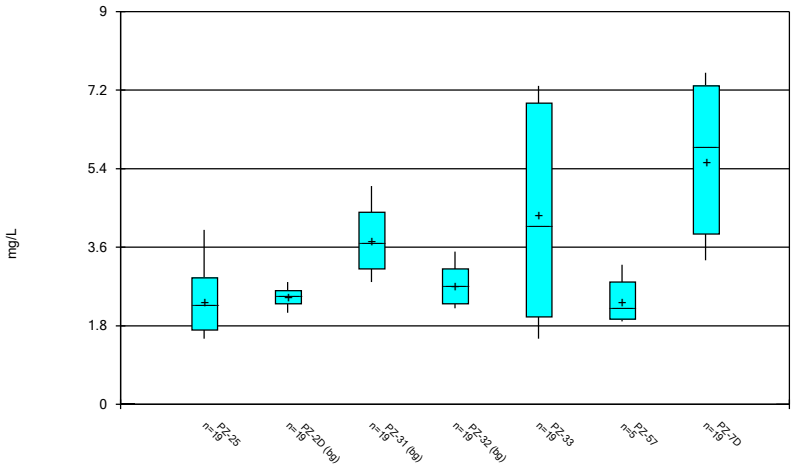
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

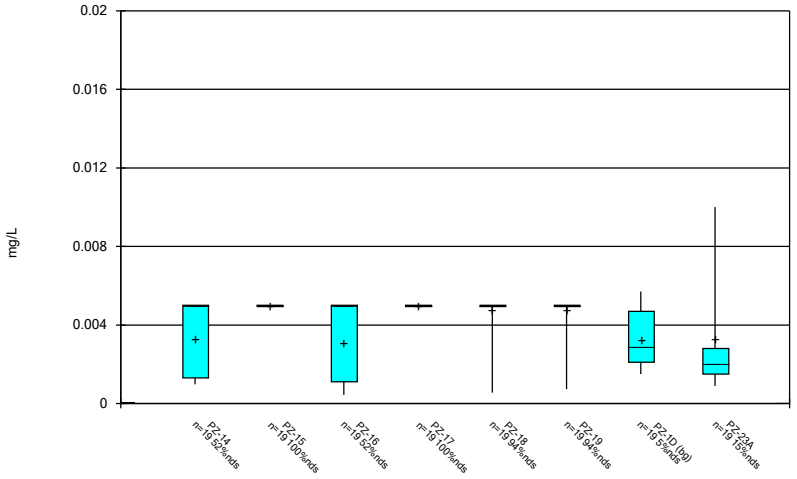
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

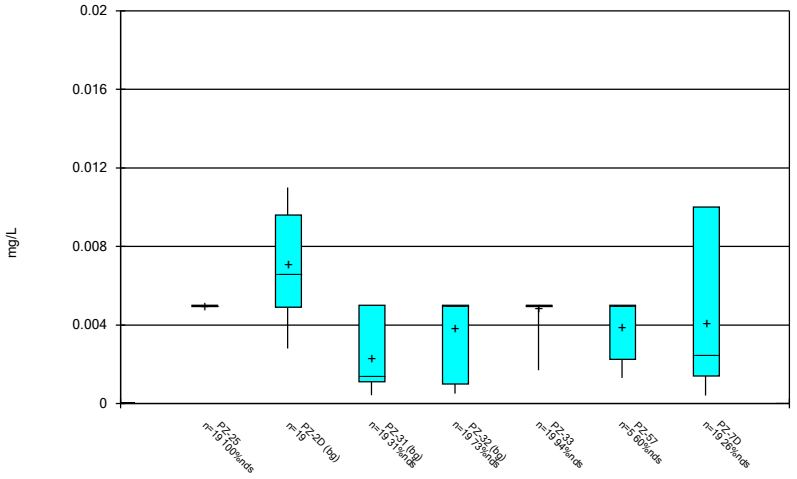


Constituent: Chromium Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

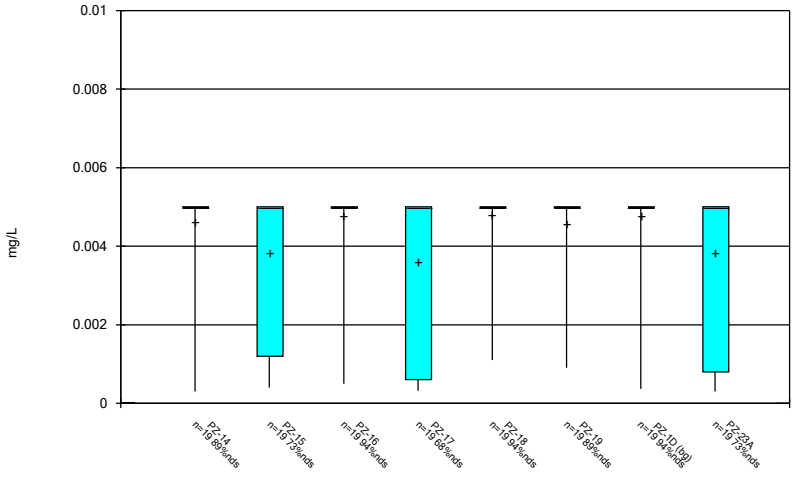


Constituent: Chromium Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

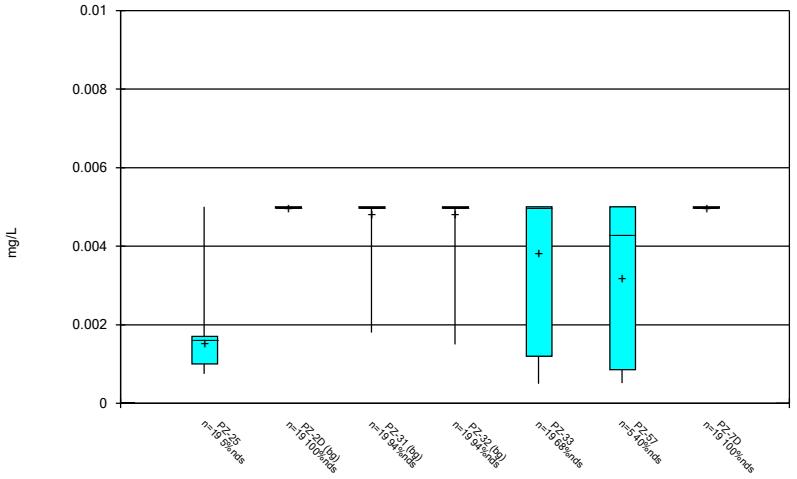


Constituent: Cobalt Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

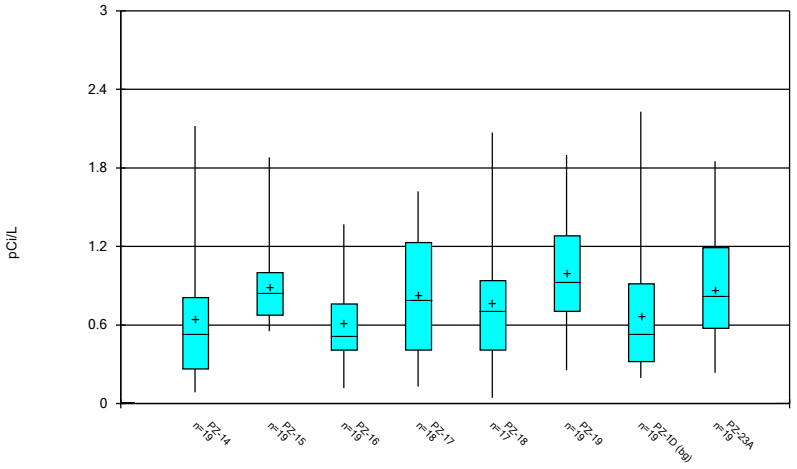


Constituent: Cobalt Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

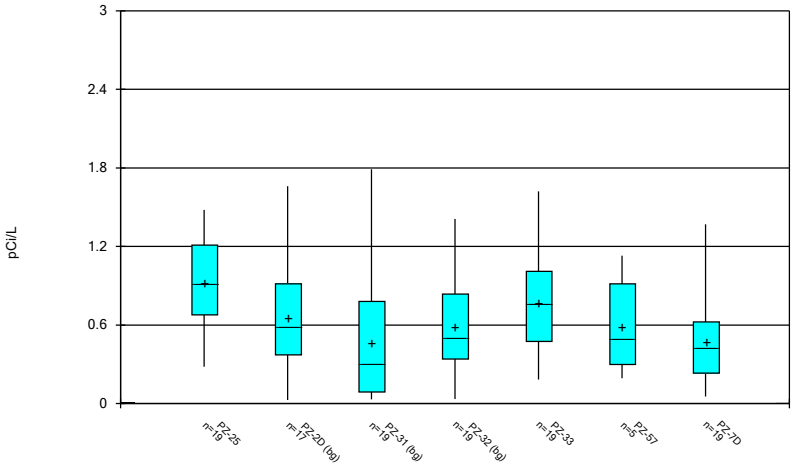


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

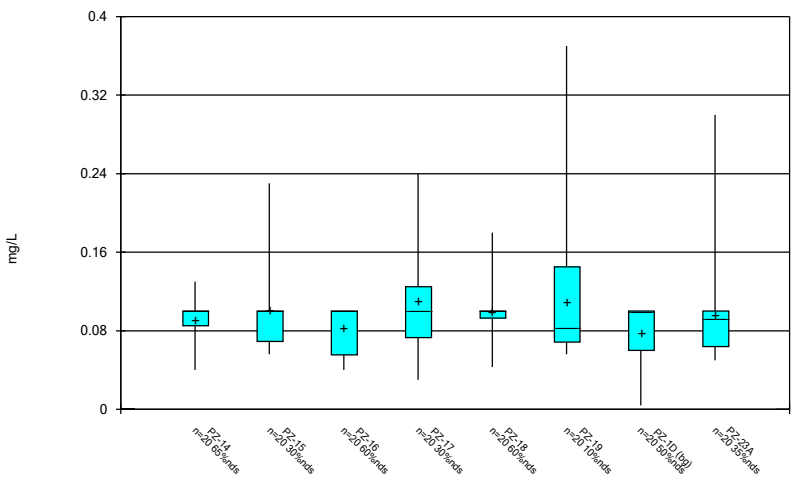


Constituent: Combined Radium 226 + 228 Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

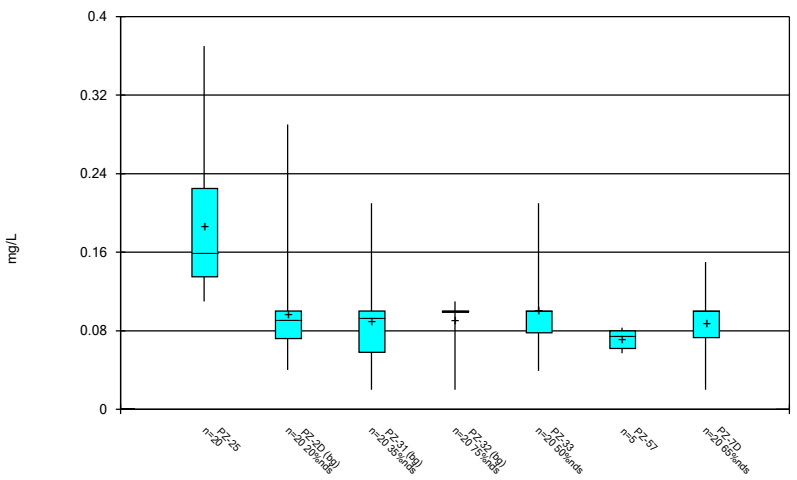


Constituent: Fluoride Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

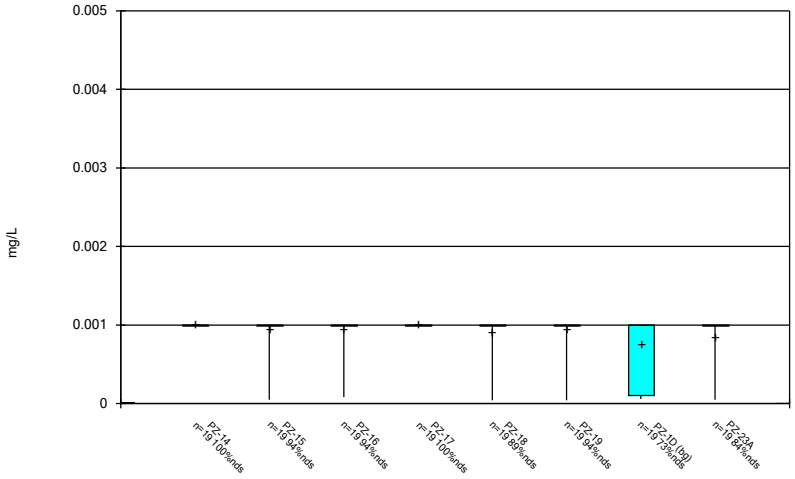


Constituent: Fluoride Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

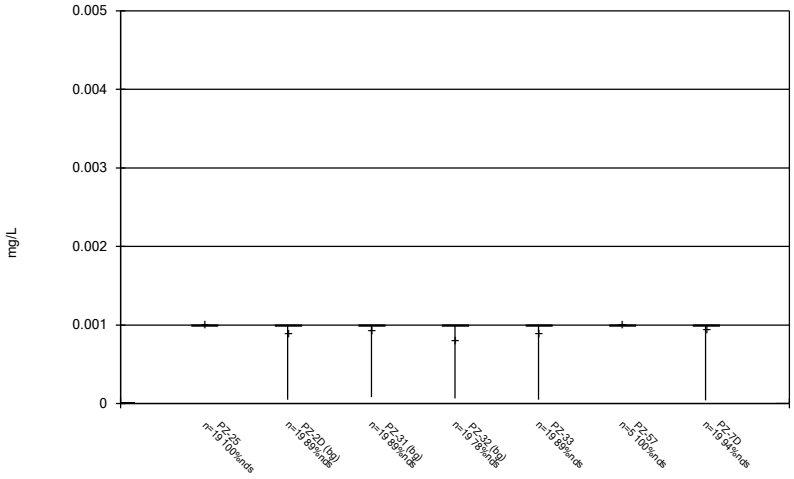
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

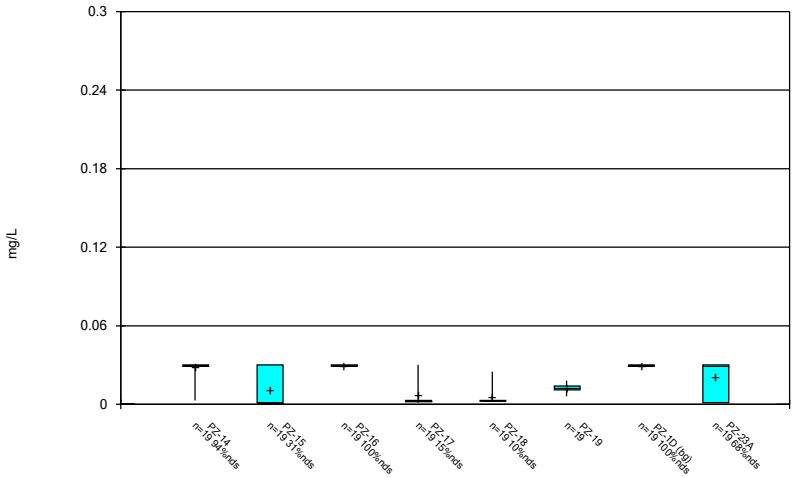
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

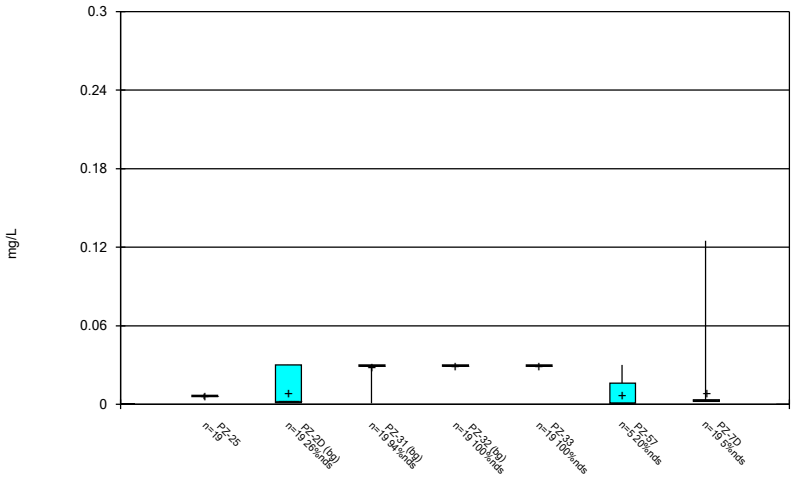
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

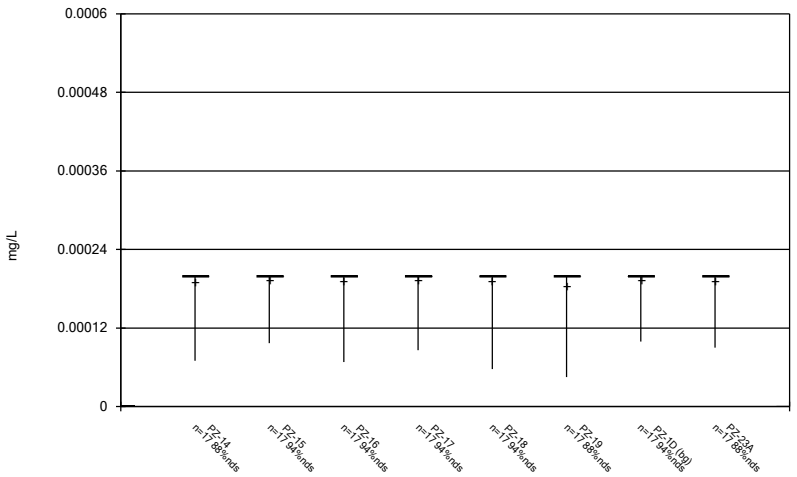
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

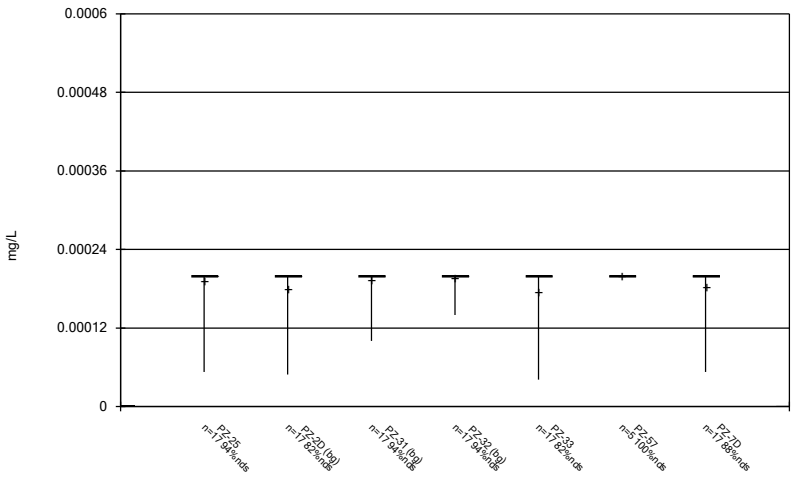


Constituent: Mercury Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

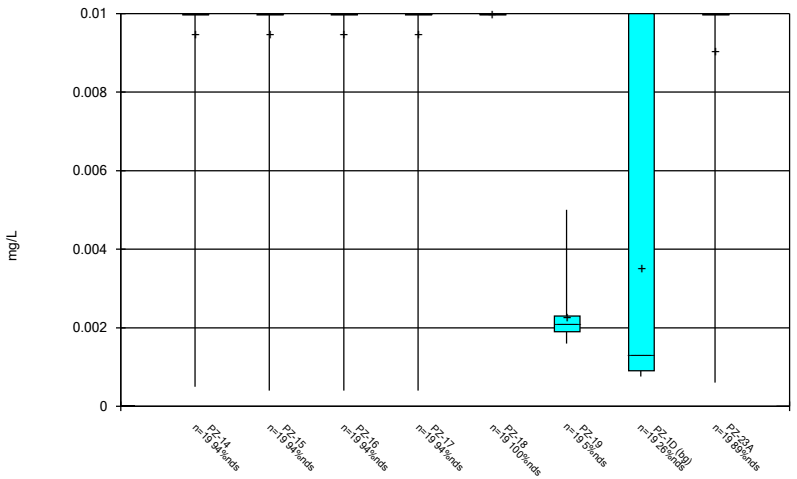


Constituent: Mercury Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

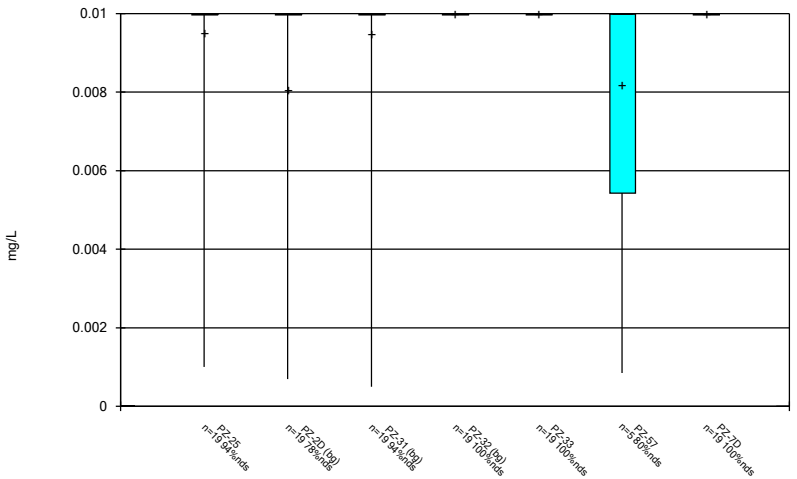


Constituent: Molybdenum Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

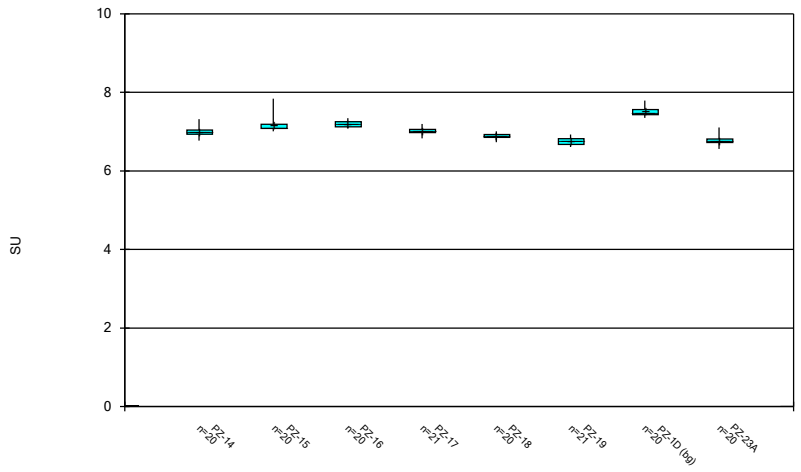


Constituent: Molybdenum Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

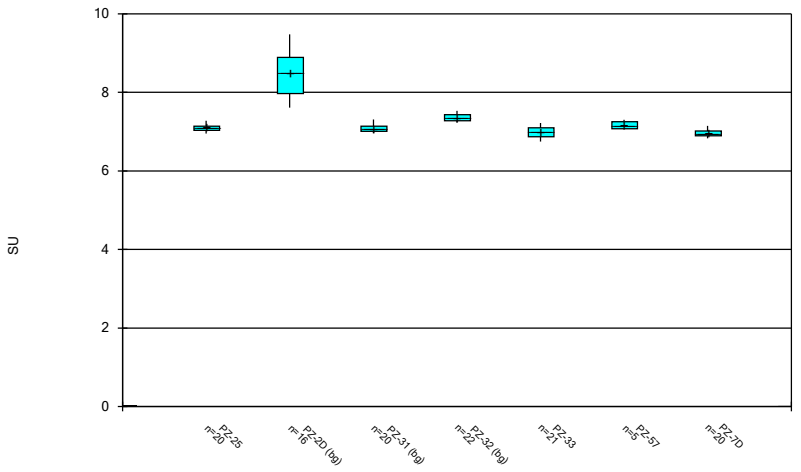
Box & Whiskers Plot



Constituent: pH Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

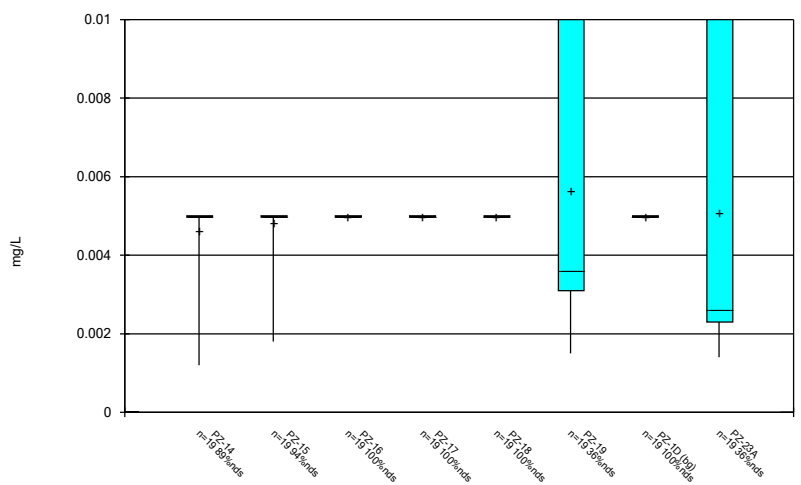
Box & Whiskers Plot



Constituent: pH Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

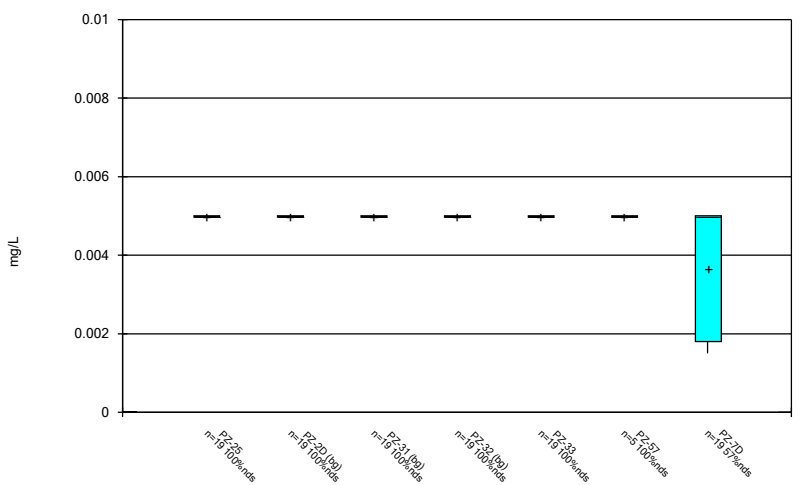
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

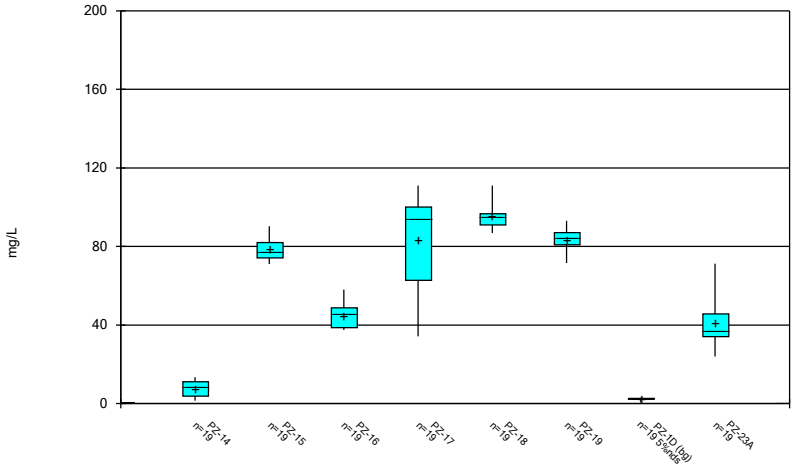
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

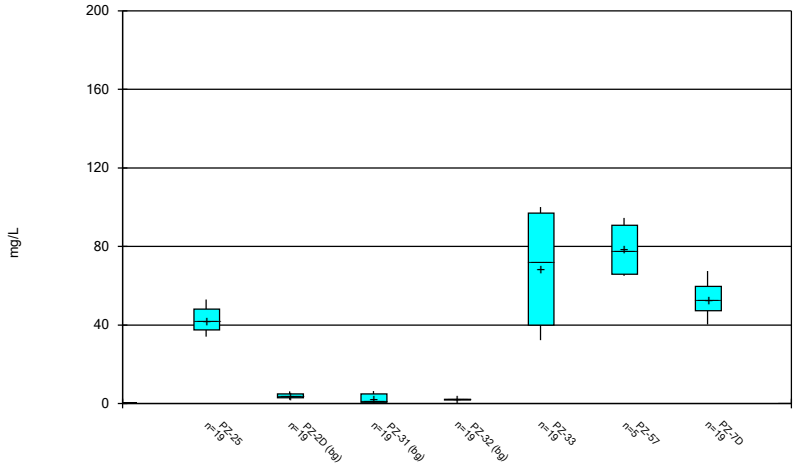


Constituent: Sulfate Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

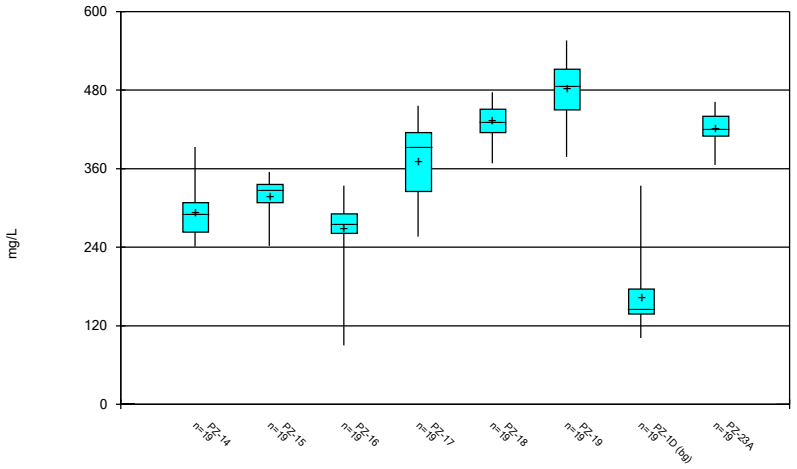


Constituent: Sulfate Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot

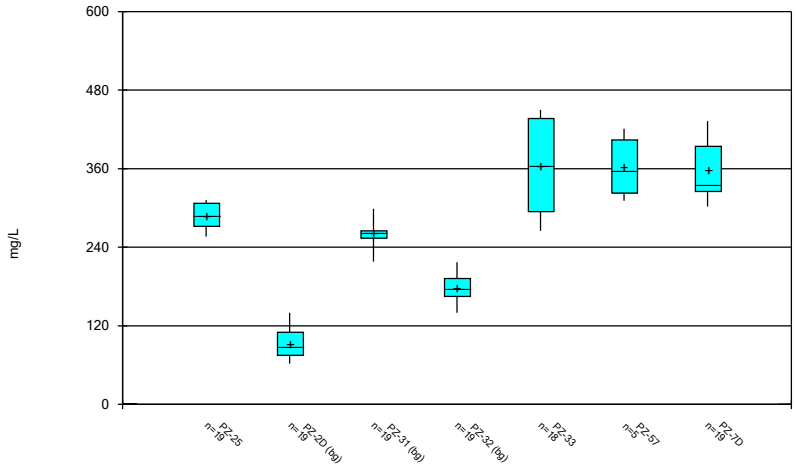


Constituent: TDS Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

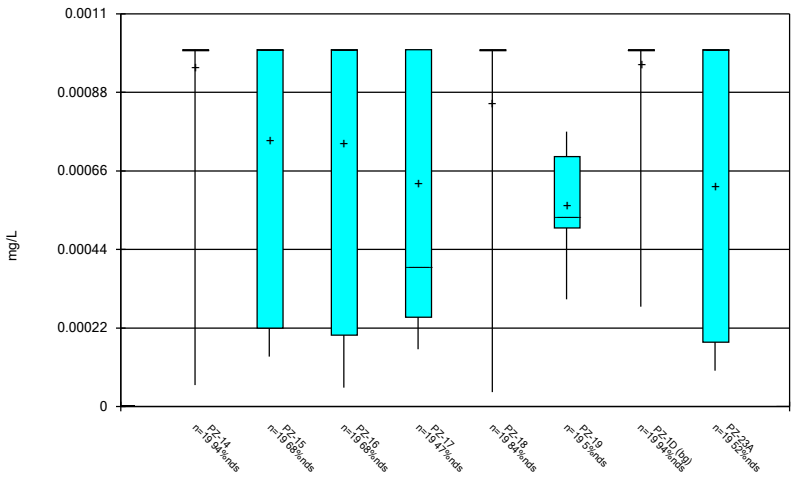
Box & Whiskers Plot



Constituent: TDS Analysis Run 4/10/2024 1:30 PM

Plant Mitchell Data: Mitchell Ash Pond CCR

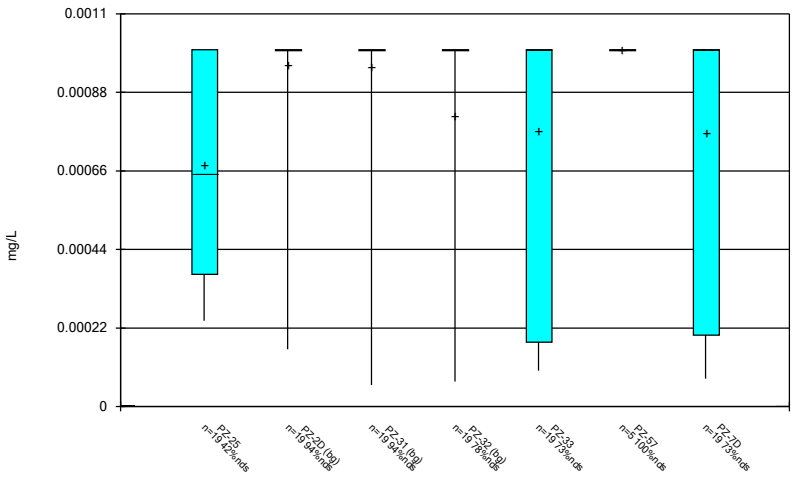
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/10/2024 1:30 PM
Plant Mitchell Data: Mitchell Ash Pond CCR

FIGURE C.

Outlier Summary

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 4/14/2024, 4:44 PM

	PZ-33 Barium (mg/L)	PZ-1D Calcium (mg/L)	PZ-33 pH (SU)	PZ-33 TDS (mg/L)
12/8/2016	0.162 (o)			503 (o)
7/11/2017			7.82 (o)	
7/11/2018		65.3 (o)		

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-15	0.02696	n/a	2/28/2024	0.2	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02696	n/a	2/29/2024	0.18	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02696	n/a	2/29/2024	0.13	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02696	n/a	2/29/2024	0.35	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02696	n/a	2/29/2024	0.43	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02696	n/a	2/28/2024	0.12	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02696	n/a	2/27/2024	0.17	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02696	n/a	2/29/2024	0.32	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02696	n/a	2/28/2024	0.17	Yes	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	110	n/a	2/29/2024	152	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	110	n/a	2/29/2024	146	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	110	n/a	2/28/2024	144	Yes	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	5	n/a	2/28/2024	5.9	Yes	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-16	5	n/a	2/29/2024	5.9	Yes	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	2/29/2024	6.94	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	2/29/2024	6.82	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	2/28/2024	6.79	Yes	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	5.976	n/a	2/29/2024	13.3	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	5.976	n/a	2/28/2024	77.4	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	5.976	n/a	2/29/2024	37.9	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	5.976	n/a	2/29/2024	45.4	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	5.976	n/a	2/29/2024	92.7	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	5.976	n/a	2/29/2024	71.5	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	5.976	n/a	2/28/2024	33.5	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	5.976	n/a	2/27/2024	34	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	5.976	n/a	2/29/2024	32.2	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	5.976	n/a	2/28/2024	40.3	Yes	76	1.569	0.4404	1.316	None	sqrt(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	307.4	n/a	2/29/2024	308	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	307.4	n/a	2/28/2024	342	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	307.4	n/a	2/29/2024	473	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	307.4	n/a	2/29/2024	470	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	307.4	n/a	2/28/2024	430	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	307.4	n/a	2/29/2024	314	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	307.4	n/a	2/28/2024	325	Yes	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	PZ-14	0.02696	n/a	2/29/2024	0.03J	No	76	-4.292	0.341	11.84	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	**PZ-15**	**0.02696**	**n/a**	**2/28/2024**	**0.2**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-16**	**0.02696**	**n/a**	**2/29/2024**	**0.18**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-17**	**0.02696**	**n/a**	**2/29/2024**	**0.13**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-18**	**0.02696**	**n/a**	**2/29/2024**	**0.35**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-19**	**0.02696**	**n/a**	**2/29/2024**	**0.43**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-23A**	**0.02696**	**n/a**	**2/28/2024**	**0.12**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-25**	**0.02696**	**n/a**	**2/27/2024**	**0.17**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-33**	**0.02696**	**n/a**	**2/29/2024**	**0.32**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Boron (mg/L)	**PZ-7D**	**0.02696**	**n/a**	**2/28/2024**	**0.17**	**Yes**	**76**	**-4.292**	**0.341**	**11.84**	**None**	**ln(x)**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-14	110	n/a	2/29/2024	103	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	110	n/a	2/28/2024	95.4	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	110	n/a	2/29/2024	89.9	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	110	n/a	2/29/2024	87.8	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	**PZ-18**	**110**	**n/a**	**2/29/2024**	**152**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-19**	**110**	**n/a**	**2/29/2024**	**146**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	**PZ-23A**	**110**	**n/a**	**2/28/2024**	**144**	**Yes**	**75**	**56.86**	**26.68**	**1.333**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
Calcium (mg/L)	PZ-25	110	n/a	2/27/2024	94.6	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-33	110	n/a	2/29/2024	100	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-7D	110	n/a	2/28/2024	104	No	75	56.86	26.68	1.333	None	No	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-14	5	n/a	2/29/2024	4.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	**PZ-15**	**5**	**n/a**	**2/28/2024**	**5.9**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**PZ-16**	**5**	**n/a**	**2/29/2024**	**5.9**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003321**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	PZ-17	5	n/a	2/29/2024	2.4	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-18	5	n/a	2/29/2024	4.1	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-19	5	n/a	2/29/2024	3.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-23A	5	n/a	2/28/2024	3.6	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-25	5	n/a	2/27/2024	1.5	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-33	5	n/a	2/29/2024	2.7	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Chloride (mg/L)	PZ-7D	5	n/a	2/28/2024	3.3	No	76	n/a	n/a	0	n/a	n/a	0.0003321	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	2/28/2024	0.059J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	2/29/2024	0.068J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	2/29/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	2/29/2024	0.078J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	2/28/2024	0.07J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	2/27/2024	0.13	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	2/29/2024	0.068J	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	2/28/2024	0.1ND	No	80	n/a	n/a	45	n/a	n/a	0.0002971	NP Inter (normality) 1 of 2
pH (SU)	PZ-14	9.48	6.96	2/29/2024	7.07	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-15	9.48	6.96	2/28/2024	7.18	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-16	9.48	6.96	2/29/2024	7.19	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	2/29/2024	7.2	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	**PZ-18**	**9.48**	**6.96**	**2/29/2024**	**6.94**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-19**	**9.48**	**6.96**	**2/29/2024**	**6.82**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	**PZ-23A**	**9.48**	**6.96**	**2/28/2024**	**6.79**	**Yes**	**78**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0006293**	**NP Inter (normality) 1 of 2**
pH (SU)	PZ-25	9.48	6.96	2/27/2024	7.13	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	2/29/2024	7.14	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	2/28/2024	7.07	No	78	n/a	n/a	0	n/a	n/a	0.0006293	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**PZ-14**	**5.976**	**n/a**	**2/29/2024**	**13.3**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-15**	**5.976**	**n/a**	**2/28/2024**	**77.4**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-16**	**5.976**	**n/a**	**2/29/2024**	**37.9**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-17**	**5.976**	**n/a**	**2/29/2024**	**45.4**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-18**	**5.976**	**n/a**	**2/29/2024**	**92.7**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-19**	**5.976**	**n/a**	**2/29/2024**	**71.5**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-23A**	**5.976**	**n/a**	**2/28/2024**	**33.5**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-25**	**5.976**	**n/a**	**2/27/2024**	**34**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-33**	**5.976**	**n/a**	**2/29/2024**	**32.2**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
Sulfate (mg/L)	**PZ-7D**	**5.976**	**n/a**	**2/28/2024**	**40.3**	**Yes**	**76**	**1.569**	**0.4404**	**1.316**	**None**	**sqrt(x)**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-14**	**307.4**	**n/a**	**2/29/2024**	**308**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-15**	**307.4**	**n/a**	**2/28/2024**	**342**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-16	307.4	n/a	2/29/2024	292	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	307.4	n/a	2/29/2024	277	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	**PZ-18**	**307.4**	**n/a**	**2/29/2024**	**473**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-19**	**307.4**	**n/a**	**2/29/2024**	**470**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-23A**	**307.4**	**n/a**	**2/28/2024**	**430**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	PZ-25	307.4	n/a	2/27/2024	287	No	76	173.6	67.27	0	None	No	0.0007523	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:42 AM

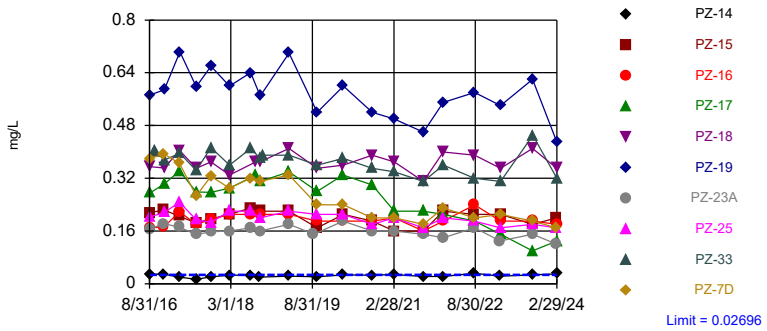
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	**PZ-33**	**307.4**	**n/a**	**2/29/2024**	**314**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**
TDS (mg/L)	**PZ-7D**	**307.4**	**n/a**	**2/28/2024**	**325**	**Yes**	**76**	**173.6**	**67.27**	**0**	**None**	**No**	**0.0007523**	**Param Inter 1 of 2**

Sanitas™ v.10.0.16 . UG

Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.292, Std. Dev.=0.341, n=76, 11.84% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9663, critical = 0.957. Kappa = 1.989 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

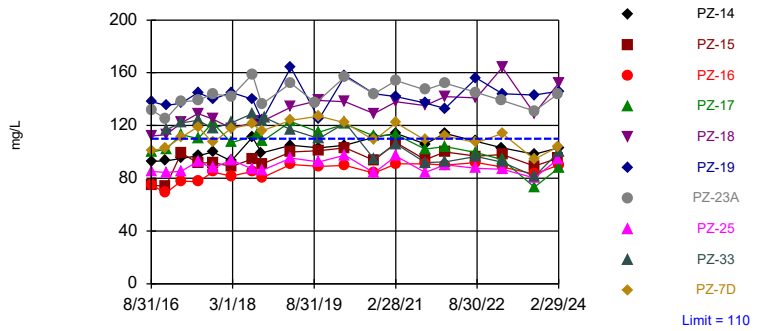
Constituent: Boron Analysis Run 4/11/2024 11:39 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Exceeds Limit: PZ-18, PZ-19, PZ-23A

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=56.86, Std. Dev.=26.68, n=75, 1.333% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9649, critical = 0.956. Kappa = 1.99 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

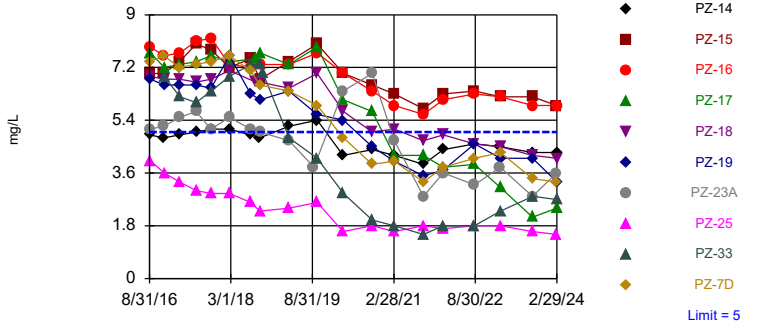
Constituent: Calcium Analysis Run 4/11/2024 11:39 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Exceeds Limit: PZ-15, PZ-16

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 76 background values. Annual per-constituent alpha = 0.006622. Individual comparison alpha = 0.0003321 (1 of 2). Comparing 10 points to limit.

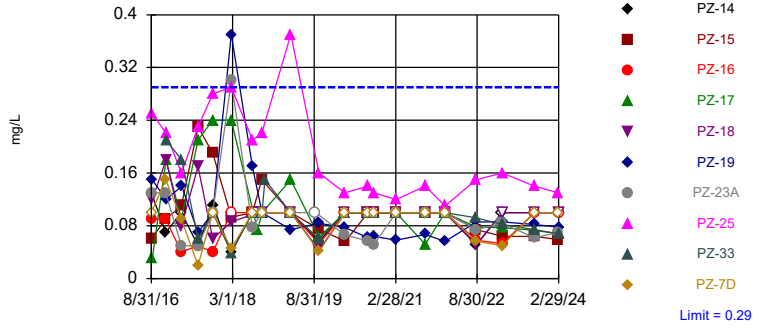
Constituent: Chloride Analysis Run 4/11/2024 11:39 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
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 80 background values. 45% NDs. Annual per-constituent alpha = 0.005926. Individual comparison alpha = 0.0002971 (1 of 2). Comparing 10 points to limit.

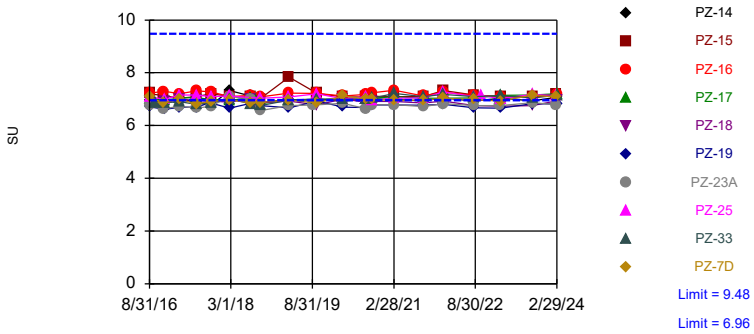
Constituent: Fluoride Analysis Run 4/11/2024 11:39 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Exceeds Limits: PZ-18, PZ-19, PZ-23A

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. Limits are highest and lowest of 78 background values. Annual per-constituent alpha = 0.01255. Individual comparison alpha = 0.0006293 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 4/11/2024 11:39 AM View: Appendix III - Interwell PLs

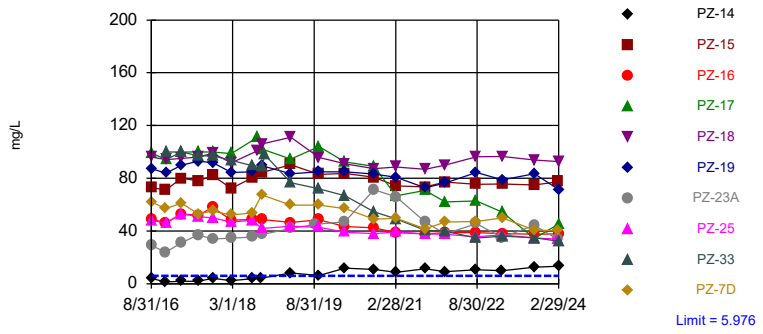
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Exceeds Limit: PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=1.569, Std. Dev.=0.4404, n=76, 1.316% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.959, critical = 0.957. Kappa = 1.989 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 4/11/2024 11:40 AM View: Appendix III - Interwell PLs

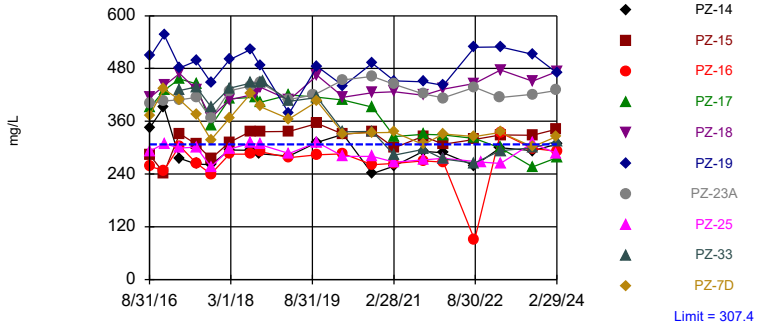
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Exceeds Limit: PZ-14, PZ-15, PZ-18, PZ-19, PZ-23A, PZ-33, PZ-7D

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=173.6, Std. Dev.=67.27, n=76. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9668, critical = 0.957. Kappa = 1.989 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: TDS Analysis Run 4/11/2024 11:40 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
8/30/2016	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.215	0.379				
9/6/2016						0.17			
9/7/2016							0.276	0.573	0.355
9/8/2016									
10/5/2016									
10/10/2016									
10/18/2016									
12/6/2016	0.0096 (J)								
12/7/2016		0.0292 (J)	0.182	0.224	0.394	0.173			
12/8/2016							0.303	0.588	0.351
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.205	0.365	0.218	0.342		0.405
3/23/2017								0.703	
7/11/2017	0.0067 (J)	0.0137 (J)	0.149			0.18			
7/12/2017				0.184	0.267		0.278	0.598	0.35
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158	0.197		0.195	0.277		0.37
10/19/2017					0.326			0.66	
2/20/2018	0.024 (J)	0.026 (J)	0.16						
2/21/2018				0.21	0.29	0.21	0.29	0.6	0.33
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	0.017 (J)	0.026 (J)	0.17						
7/12/2018				0.23	0.32	0.21		0.64	
8/15/2018									0.37
8/16/2018							0.33		
8/17/2018									
9/12/2018	0.012 (J)	0.02 (J)							
9/13/2018			0.16	0.22	0.31	0.21			0.37
9/14/2018							0.31	0.57	
10/4/2018									
10/24/2018									
3/26/2019	0.0082								
3/27/2019		0.023	0.18			0.21			0.41
3/28/2019				0.22	0.33		0.34	0.7	
9/10/2019			0.15						
10/1/2019	0.0064 (X)								
10/2/2019		0.021 (X)		0.17		0.19	0.28		
10/3/2019					0.24			0.52	0.35
3/24/2020	0.013 (J)								
3/25/2020		0.027 (J)	0.19				0.33		
3/26/2020				0.21	0.24	0.19		0.6	0.36
10/6/2020	0.015 (J)	0.026 (J)	0.16			0.19			
10/7/2020				0.19	0.2		0.3	0.52	0.39
3/3/2021	0.01 (J)	0.028 (J)	0.16					0.5	
3/4/2021				0.16	0.2	0.2	0.22		0.37
3/8/2021									
9/14/2021	<0.04								
9/15/2021		0.022 (J)	0.15	0.16		0.16			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-19	PZ-18
9/16/2021					0.18		0.22	0.46	0.31
1/25/2022	0.01 (J)								
1/26/2022		0.022 (J)	0.14	0.22		0.19			
1/27/2022					0.23		0.21	0.55	0.4
8/24/2022	0.011 (J)								
8/25/2022		0.032 (J)	0.17 (J)	0.21	0.2	0.24	0.19 (J)	0.58	0.39
2/14/2023	0.011 (J)	0.023 (J)	0.13						
2/15/2023				0.21	0.21	0.19		0.54	0.35
2/16/2023							0.15		
9/19/2023	0.024 (J)					0.19			
9/20/2023		0.027 (J)	0.15	0.18	0.19		0.1	0.62	0.41
9/21/2023									
2/27/2024									
2/28/2024	0.016 (J)		0.12	0.2	0.17				
2/29/2024		0.03 (J)				0.18	0.13	0.43	0.35

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.204				
10/5/2016		0.404			
10/10/2016		0.401			
10/18/2016			0.0156 (J)	0.0174 (J)	
12/6/2016				0.0133 (J)	
12/7/2016			0.0157 (J)		
12/8/2016	0.216	0.375			
3/21/2017				0.0103 (J)	
3/22/2017	0.247				
3/23/2017		0.396	0.0103 (J)		
7/11/2017	0.194		<0.04	<0.04	
7/12/2017		0.343			
10/17/2017			0.0142 (J)	0.0116 (J)	
10/18/2017	0.186				
10/19/2017		0.413			
2/20/2018			0.011 (J)	0.046 (J)	
2/21/2018	0.22	0.36			
4/12/2018					0.016 (J)
5/23/2018					0.018 (J)
6/13/2018					0.014 (J)
7/11/2018			0.014 (J)	0.014 (J)	0.017 (J)
7/12/2018	0.22	0.41			
8/15/2018					
8/16/2018					
8/17/2018					0.015 (J)
9/12/2018				0.0098 (J)	0.013 (J)
9/13/2018	0.2		0.013 (J)		
9/14/2018		0.38			
10/4/2018		0.39			0.016 (J)
10/24/2018					0.018 (J)
3/26/2019				0.0076	
3/27/2019	0.22		0.012		0.016
3/28/2019		0.39			
9/10/2019					
10/1/2019			0.011 (X)		
10/2/2019	0.21			0.0084 (X)	0.011 (X)
10/3/2019		0.36			
3/24/2020					0.015 (J)
3/25/2020	0.21		0.016 (J)	0.011 (J)	
3/26/2020		0.38			
10/6/2020			0.015 (J)	0.011 (J)	0.018 (J)
10/7/2020	0.18	0.35			
3/3/2021	0.2		0.022 (J)	0.0087 (J)	
3/4/2021		0.34			
3/8/2021					0.013 (J)
9/14/2021			0.012 (J)		0.011 (J)
9/15/2021	0.17			<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
9/16/2021		0.31			
1/25/2022					0.013 (J)
1/26/2022	0.2		0.01 (J)	<0.04	
1/27/2022		0.36			
8/24/2022	0.19	0.32	0.022 (J)	<0.04	0.012 (J)
8/25/2022					
2/14/2023			0.012 (J)	<0.04	0.01 (J)
2/15/2023	0.17				
2/16/2023		0.31			
9/19/2023	0.18		0.011 (J)	0.022 (J)	0.011 (J)
9/20/2023					
9/21/2023		0.45			
2/27/2024	0.17		<0.04		<0.04
2/28/2024				0.016 (J)	
2/29/2024		0.32			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							100	112	138
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							102	113	135
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	113	122	
3/23/2017									137
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		110	129	145
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	122	125	
10/19/2017				107					140
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	107	118	145
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	65.3 (o)	111	159						
7/12/2018				121	94.5	85.2			140
8/15/2018								123	
8/16/2018							113		
8/17/2018									
9/12/2018	46.6	99.3							
9/13/2018			136	116	90.8	80.2		123	
9/14/2018							108		124
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5		134	
3/28/2019				124	100		123		164
9/10/2019			137						
10/1/2019	46.8								
10/2/2019		103			101	89.1	115		
10/3/2019				127				139	125
3/24/2020	48								
3/25/2020		105	157				121		
3/26/2020				122	103	89.8		138	158
10/6/2020	50.5	111	144			84			
10/7/2020				109	93.5		112	129	144
3/3/2021	54.7	114	154						142
3/4/2021				122	107	90.9	113	138	
3/8/2021									
9/14/2021	51								
9/15/2021		106	147		94	91			
9/16/2021				109			102	135	137
1/25/2022	53.1								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		114	152		100	90.1			
1/27/2022				112			104	142	133
8/24/2022	45.8								
8/25/2022		108	145	107	96.7	92	99.5	141	156
2/14/2023	56.2	103	139						
2/15/2023				114	98.1	88.5		164 (M1)	144
2/16/2023							94.1		
9/19/2023	44.7					83.3			
9/20/2023		98.2	131	94.3	89.3		73.3	129	143
9/21/2023									
2/27/2024									
2/28/2024	55		144	104	95.4				
2/29/2024		103				89.9	87.8	152	146

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	85.2				
10/18/2016		57.2	88.3		
12/6/2016			83.4		
12/7/2016		52.8			
12/8/2016	84.5			117	
3/21/2017			94		
3/22/2017	85.3				
3/23/2017		59.1		122	
7/11/2017	93	59.7	86		
7/12/2017				124	
10/17/2017		64.9	91.6		
10/18/2017	87.6				
10/19/2017				118	
2/20/2018		64.1	86.5		
2/21/2018	93.9			122	
4/12/2018					<25
5/23/2018					17.6 (J)
6/13/2018					14.3
7/11/2018		60.4	95.4		15.6
7/12/2018	87.1			129	
8/15/2018					
8/16/2018					
8/17/2018					27
9/12/2018			86		26.9
9/13/2018	85.8	58.7			
9/14/2018				123	
10/4/2018				126	25
10/24/2018					23.8
3/26/2019			87.3		
3/27/2019	95.2	54.6			26.1
3/28/2019				117	
9/10/2019					
10/1/2019		64.3			
10/2/2019	92.3		95.5		21
10/3/2019				110	
3/24/2020					26.5
3/25/2020	97.5	66.6	95.8		
3/26/2020				122	
10/6/2020		62.8	98.8		22.7
10/7/2020	84.2			94.7	
3/3/2021	96.8	64.8 (M1)	104		
3/4/2021				106	
3/8/2021					41.7
9/14/2021		67.8			13.4
9/15/2021	84.4		101		
9/16/2021				92	
1/25/2022					20.7

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	90.2	69.2	102		
1/27/2022				92.5	
8/24/2022	87.6	67.1	95.2	96.5	27.3
8/25/2022					
2/14/2023		69.3	99.9		30.2
2/15/2023	86.9				
2/16/2023				92.2 (M1)	
9/19/2023	80.3	64.6	86.9		13.7
9/20/2023					
9/21/2023				81.4	
2/27/2024	94.6	67.5			19.2
2/28/2024			99.9		
2/29/2024				100	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
8/30/2016	3.1								
8/31/2016		4.9	5.1						
9/1/2016				7.4	7				
9/6/2016						7.9			
9/7/2016							6.8	6.9	7.7
9/8/2016									
10/18/2016									
12/6/2016	3.4								
12/7/2016		4.8	5.2	7.6	7	7.6			
12/8/2016							6.6	6.8	7.2
3/21/2017	2.9	4.9	5.5						
3/22/2017				7.2	7.4	7.7		6.8	7.3
3/23/2017							6.6		
7/11/2017	3.4	5	5.7			8.1			
7/12/2017				7.3	8		6.6	6.7	7.4
10/17/2017	3.3								
10/18/2017		5.1	5.1		7.8	8.2		6.8	7.6
10/19/2017				7.4			6.5		
2/20/2018	3.3	5.1	5.5						
2/21/2018				7.6	7.2	7.3	7.6	7.1	7.4
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.9	4.9	5.1						
7/12/2018				7.1	7.5	7.2	6.3		
8/15/2018								6.7	
8/16/2018									7.5
8/17/2018									
9/12/2018	2.8	4.8							
9/13/2018			5	6.6	6.8	7.3		6.7	
9/14/2018							6.1		7.7
10/4/2018									
10/24/2018									
3/26/2019	3.3								
3/27/2019		5.2	4.7			7.3		6.5	
3/28/2019				6.4	7.4		6.4		7.3
9/10/2019			3.8						
10/1/2019	3.6								
10/2/2019		5.4			8	7.7			7.9
10/3/2019				5.9			5.6	7	
3/24/2020	2.8								
3/25/2020		4.2	6.4						6.1
3/26/2020				4.8	7	7	5.4	5.7	
10/6/2020	3	4.4	7			6.4			
10/7/2020				3.9	6.6		4.5	5	5.7
3/3/2021	2.8	4.2	4.7				4		
3/4/2021				4	6.3	5.9		5.1	4.2
3/8/2021									
9/14/2021	2.9								
9/15/2021		3.9	2.8		5.8	5.6			
9/16/2021				3.3			3.5	4.7	4.2
1/25/2022	2.9								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
1/26/2022		4.4	3.6		6.3	6.1			
1/27/2022				3.8			3.7	4.9	3.8
8/24/2022	2.6								
8/25/2022		4.6	3.2	4.1	6.4	6.3	4.6	4.6	3.9
2/14/2023	3	4.5	3.8						
2/15/2023				4.3	6.2	6.2	4.1	4.5	
2/16/2023									3.1
9/19/2023	2.9					5.9			
9/20/2023		4.3	2.8	3.4	6.2		4.1	4.2	2.1
9/21/2023									
2/27/2024									
2/28/2024	2.8		3.6	3.3	5.9				
2/29/2024		4.3				5.9	3.3	4.1	2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	4				
10/18/2016		3.5	4.5		
12/6/2016			5		
12/7/2016		3.2			
12/8/2016	3.6			6.9	
3/21/2017			4.3		
3/22/2017	3.3				
3/23/2017		2.9		6.2	
7/11/2017	3	3.1	4.7		
7/12/2017				6	
10/17/2017		3	4.6		
10/18/2017	2.9				
10/19/2017				6.4	
2/20/2018		3	4.4		
2/21/2018	2.9			6.9	
4/12/2018					2.6
5/23/2018					2.5
6/13/2018					2.5
7/11/2018		2.8	4		2.6
7/12/2018	2.6			7.3	
8/15/2018					
8/16/2018					
8/17/2018					2.6
9/12/2018			3.7		2.3
9/13/2018	2.3	2.2			
9/14/2018				7.3	
10/4/2018				7	2.7
10/24/2018					2.8
3/26/2019			3.8		
3/27/2019	2.4	3.1			2.5
3/28/2019				4.8	
9/10/2019					
10/1/2019		3.1			
10/2/2019	2.6		4.3		2.7
10/3/2019				4.1	
3/24/2020					2.2
3/25/2020	1.6	2.2	3		
3/26/2020				2.9	
10/6/2020		2.3	3.4		2.3
10/7/2020	1.8			2	
3/3/2021	1.6	2.2	3.1		
3/4/2021				1.8	
3/8/2021					2.4
9/14/2021		2.2			2.5
9/15/2021	1.8		2.8		
9/16/2021				1.5	
1/25/2022					2.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	1.7	2.4	3.2		
1/27/2022				1.8	
8/24/2022	1.8	2.7	3	1.8	2.1
8/25/2022					
2/14/2023		2.7	3.3		2.6
2/15/2023	1.8				
2/16/2023				2.3	
9/19/2023	1.6	2.6	3.4		2.3
9/20/2023					
9/21/2023				2.8	
2/27/2024	1.5	2.5			2.4
2/28/2024			3.1		
2/29/2024				2.7	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-19	PZ-18	PZ-17
8/30/2016	0.06 (J)								
8/31/2016		0.13 (J)	0.13 (J)						
9/1/2016				0.06 (J)	<0.1				
9/6/2016						0.09 (J)			
9/7/2016							0.15 (J)	0.12 (J)	0.03 (J)
9/8/2016									
10/18/2016									
12/6/2016	0.06 (J)								
12/7/2016		0.07 (J)	0.13 (J)	0.09 (J)	0.15 (J)	0.09 (J)			
12/8/2016							0.12 (J)	0.18 (J)	0.18 (J)
3/21/2017	0.004 (J)	<0.1	0.05 (J)						
3/22/2017				0.11 (J)	0.09 (J)	0.04 (J)		0.08 (J)	0.09 (J)
3/23/2017							0.14 (J)		
7/11/2017	0.05 (J)	0.05 (J)	0.05 (J)			0.05 (J)			
7/12/2017				0.23 (J)	0.02 (J)		0.07 (J)	0.17 (J)	0.21 (J)
10/17/2017	<0.1								
10/18/2017		0.11 (J)	<0.1	0.19 (J)		0.04 (J)		0.06 (J)	0.24 (J)
10/19/2017					<0.1		<0.1		
2/20/2018	0.098 (J)	0.04 (J)	0.3 (J)						
2/21/2018				0.093 (J)	0.045 (J)	<0.1	0.37	0.086 (J)	0.24 (J)
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	<0.1	<0.1	0.077 (J)						
7/12/2018				<0.1	<0.1	<0.1	0.17 (J)		
8/15/2018								<0.1	
8/16/2018									0.073 (J)
8/17/2018									
9/12/2018	0.034 (J)	<0.1							
9/13/2018			<0.1	0.15 (J)	<0.1	<0.1		<0.1	
9/14/2018							<0.1		<0.1
10/4/2018									
10/24/2018									
3/26/2019	<0.1								
3/27/2019		<0.1	<0.1			<0.1		<0.1	
3/28/2019				0.1	<0.1		0.074		0.15
9/10/2019			<0.1						
10/1/2019	0.062 (X)								
10/2/2019		0.056 (X)		0.075 (X)		0.053 (X)			0.063 (X)
10/3/2019					0.041 (X)		0.084 (X)	0.043 (X)	
3/24/2020	<0.1								
3/25/2020		<0.1	0.066 (J)						<0.1
3/26/2020				0.056 (J)	<0.1	<0.1	0.077 (J)	<0.1	
8/25/2020	<0.1								
8/26/2020		<0.1	0.057 (J)	<0.1	<0.1	<0.1	0.062 (J)		<0.1
8/27/2020								<0.1	
10/6/2020	<0.1	<0.1	0.052 (J)			<0.1			
10/7/2020				<0.1	<0.1		0.064 (J)	<0.1	<0.1
3/3/2021	<0.1	<0.1	<0.1				0.058 (J)		
3/4/2021				<0.1	<0.1	<0.1		<0.1	<0.1
3/8/2021									
9/14/2021	<0.1								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-19	PZ-18	PZ-17
9/15/2021		<0.1	<0.1	<0.1		<0.1			
9/16/2021					<0.1		0.067 (J)	<0.1	0.052 (J)
1/25/2022	<0.1								
1/26/2022		<0.1	<0.1	<0.1		<0.1			
1/27/2022					<0.1		0.056 (J)	<0.1	<0.1
8/24/2022	0.08 (J)								
8/25/2022		0.051 (J)	0.074 (J)	0.074 (J)	0.056 (J)	0.058 (J)	0.086 (J)	0.052 (J)	0.078 (J)
2/14/2023	0.063 (J)	<0.1	0.084 (J)						
2/15/2023				0.064 (J)	0.05 (J)	0.053 (J)	0.086 (J)	<0.1	
2/16/2023									0.077 (J)
9/19/2023	0.06 (J)					<0.1			
9/20/2023		<0.1	0.062 (J)	0.064 (J)	<0.1		0.082 (J)	<0.1	0.073 (J)
9/21/2023									
2/27/2024									
2/28/2024	<0.1		0.07 (J)	0.059 (J)	<0.1				
2/29/2024		<0.1				<0.1	0.078 (J)	<0.1	0.068 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	0.25 (J)				
10/18/2016		0.16 (J)	0.11 (J)		
12/6/2016		0.15 (J)			
12/7/2016			0.07 (J)		
12/8/2016	0.22 (J)			0.21 (J)	
3/21/2017		0.02 (J)			
3/22/2017	0.16 (J)				
3/23/2017			<0.1	0.18 (J)	
7/11/2017	0.23 (J)	0.06 (J)	0.02 (J)		
7/12/2017				0.06 (J)	
10/17/2017		0.05 (J)	<0.1		
10/18/2017	0.28 (J)				
10/19/2017				<0.1	
2/20/2018		0.21 (J)	<0.1		
2/21/2018	0.29 (J)			0.039 (J)	
4/12/2018					<0.1
5/23/2018					0.063 (J)
6/13/2018					0.11 (J)
7/11/2018		0.087 (J)	<0.1		<0.1
7/12/2018	0.21 (J)			<0.1	
8/15/2018					
8/16/2018					
8/17/2018					<0.1
9/12/2018		0.049 (J)			0.093 (J)
9/13/2018	0.22 (J)		<0.1		
9/14/2018				<0.1	
10/4/2018				0.15 (J)	0.15 (J)
10/24/2018					0.29 (J)
3/26/2019		<0.1			
3/27/2019	0.37		<0.1		0.04
3/28/2019				<0.1	
9/10/2019					
10/1/2019			0.042 (X)		
10/2/2019	0.16 (X)	0.057 (X)			0.11 (X)
10/3/2019				0.06 (X)	
3/24/2020					0.051 (J)
3/25/2020	0.13 (J)	<0.1	<0.1		
3/26/2020				<0.1	
8/25/2020		<0.1	<0.1		
8/26/2020	0.14			<0.1	0.057 (J)
8/27/2020					
10/6/2020		<0.1	<0.1		0.073 (J)
10/7/2020	0.13			<0.1	
3/3/2021	0.12	<0.1	<0.1		
3/4/2021				<0.1	
3/8/2021					<0.1
9/14/2021			<0.1		0.089 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-2D (bg)
9/15/2021	0.14	<0.1			
9/16/2021				<0.1	
1/25/2022					0.071 (J)
1/26/2022	0.11	<0.1	<0.1		
1/27/2022				<0.1	
8/24/2022	0.15	0.069 (J)	0.058 (J)	0.092 (J)	0.088 (J)
8/25/2022					
2/14/2023		0.059 (J)	<0.1		0.076 (J)
2/15/2023	0.16				
2/16/2023				0.082 (J)	
9/19/2023	0.14	0.053 (J)	<0.1		0.094 (J)
9/20/2023					
9/21/2023				0.074 (J)	
2/27/2024	0.13		<0.1		0.084 (J)
2/28/2024		0.06 (J)			
2/29/2024				0.068 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (SU) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
8/30/2016	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.07	7.21				
9/6/2016						7.23			
9/7/2016							6.92	6.71	7.02
9/8/2016									
10/4/2016									
10/5/2016									
10/17/2016									
10/18/2016									
12/6/2016	7.57								
12/7/2016		6.85	6.64	6.85	7.13	7.3			
12/8/2016							6.9	6.61	6.95
3/21/2017	7.54	7.04	6.73						
3/22/2017				6.99	7.04	7.2	7		7.05
3/23/2017								6.69	
7/11/2017	7.43	6.88	6.66			7.31			
7/12/2017				6.83	7.09		6.95	6.69	7.06
10/17/2017	7.7								
10/18/2017		6.77	6.73		7.2	7.28		6.88	6.99
10/19/2017				6.91				6.85	
2/20/2018	7.57	7.32 (D)	7.11						
2/21/2018				6.97	7.11	7.1	6.89	6.66	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	7.01	6.84	7.06
8/15/2018							6.87		
8/16/2018									7.01
9/12/2018	7.41	6.87							
9/13/2018			6.56	6.88	7.01	7.08	6.86		
9/14/2018								6.76	6.83
3/26/2019	7.49								
3/27/2019		6.98	6.75			7.23	6.92		
3/28/2019				6.96	7.84			6.67	6.97
9/10/2019			6.78						
10/1/2019	7.5								
10/2/2019		6.96			7.22	7.22			6.99
10/3/2019				6.85			6.78	6.93	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.12	7.08	7.12	7.01	6.7	
8/25/2020	7.49								
8/26/2020		6.98	6.64	7.01	7.08	7.18		6.68	6.98
8/27/2020							6.88		
10/6/2020	7.35	7.01	6.78			7.24			
10/7/2020				6.98	7.11		6.91	6.78	7.04
3/3/2021	7.56	6.99	6.79					6.78	
3/4/2021				6.95	7.09	7.34	6.91		7.09
3/8/2021									
9/14/2021	7.45								
9/15/2021		6.94	6.72		7.09	7.12			
9/16/2021				6.96			6.85	6.77	7.03
1/25/2022	7.51								

Prediction Limit

Constituent: pH (SU) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-18	PZ-19	PZ-17
1/26/2022		7.05	6.83		7.33	7.26			
1/27/2022				7.03			6.92	6.8	7.03
8/24/2022	7.49								
8/25/2022		6.93	6.76	6.98	7.15	7.14	6.76	6.67	7.05
10/11/2022									
2/14/2023	7.43	7.04	6.75						
2/15/2023				6.92	7.09	7.1	6.73	6.66	
2/16/2023									7.14
9/19/2023	7.44					7.08			
9/20/2023		6.94	6.86	7.15	7.07		6.76	6.83	7.16
9/21/2023									
2/27/2024									
2/28/2024	7.41		6.79	7.07	7.18				
2/29/2024		7.07				7.19	6.94	6.82	7.2

Prediction Limit

Constituent: pH (SU) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	7.1				
10/4/2016		6.88			
10/5/2016		6.91			
10/17/2016			7.43		
10/18/2016			7.45	7.15	
12/6/2016				7.04	
12/7/2016			7.29		
12/8/2016	6.98	6.86			
3/21/2017				7.01	
3/22/2017	7.16				
3/23/2017		6.9	7.26		
7/11/2017	7.15	7.82 (o)	7.31	6.96	
7/12/2017		6.81			
10/17/2017			7.29	7.31	7.61
10/18/2017	7.09				
10/19/2017		6.86			
2/20/2018			7.26		
2/21/2018	7.12	7.02			
7/11/2018			7.39	7.26	9.48
7/12/2018		6.82		7.01	
8/15/2018					
8/16/2018					
9/12/2018				7.02	9.07
9/13/2018	7.03		7.25		
9/14/2018		6.75			
3/26/2019				7	
3/27/2019	7.08		7.42		8.76
3/28/2019		6.96			
9/10/2019					
10/1/2019			7.43		
10/2/2019	7.2			7.09	8.97
10/3/2019		7.01			
3/24/2020					8.57
3/25/2020	7.01		7.23	7.15	
3/26/2020		7			
8/25/2020			7.53	7.14	
8/26/2020	7.09	6.99			7.97
8/27/2020					
10/6/2020			7.27	7.01	8.72
10/7/2020	6.95	7.04			
3/3/2021	7.04		7.41	7.14	
3/4/2021		7.22			
3/8/2021					7.77
9/14/2021			7.31		8.96
9/15/2021	7.05			6.99	
9/16/2021		7.1			
1/25/2022					8.4

Prediction Limit

Constituent: pH (SU) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-33	PZ-32 (bg)	PZ-31 (bg)	PZ-2D (bg)
1/26/2022	7.28		7.44	7.1	
1/27/2022		7.18			
8/24/2022	7.1	7.1	7.34	7.04	8.01
8/25/2022					
10/11/2022	7.13		7.37		7.94
2/14/2023			7.36	7.09	7.97
2/15/2023	7.02				
2/16/2023		7.13			
9/19/2023	7.18		7.43	7.02	8.82
9/20/2023					
9/21/2023		7.05			
2/27/2024	7.13		7.39		8.49
2/28/2024				7.11	
2/29/2024		7.14			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							87	96	99
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							84	94	94
3/21/2017	2.5	2	31						
3/22/2017				61	80	53		95	100
3/23/2017							90		
7/11/2017	2.6	2	37			52			
7/12/2017				53	78		93	96	100
10/17/2017	2.5								
10/18/2017		4.2	34		82	58		99	100
10/19/2017				55			92		
2/20/2018	2.3	2.4	34.7						
2/21/2018				52.1	72.2	48.2	84.5	91.8	98.8
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	2.5	3.8	35.4						
7/12/2018				53.9	80.5	48.8	84.9		
8/15/2018								101	
8/16/2018									111
8/17/2018									
9/12/2018	2	4.3							
9/13/2018			37.4	67.5	84.4	48.7		106	
9/14/2018							89.5		102
10/4/2018									
10/24/2018									
3/26/2019	2.7								
3/27/2019		8.2	41.9			46.5		111	
3/28/2019				59.6	90.3		83.5		94.7
9/10/2019			45.1						
10/1/2019	2.8								
10/2/2019		6.2			83	48.5			104
10/3/2019				59.6			84.9	95.8	
3/24/2020	3								
3/25/2020		11.9	47						92.4
3/26/2020				57.1	83.6	43.5	84.9	91	
10/6/2020	2.4	11	71.2			42.4			
10/7/2020				48.9	80.7		83.3	87.3	89.1
3/3/2021	2.2	8.8	66				80.8		
3/4/2021				49.7	74.1	38.9		88.6	66.8
3/8/2021									
9/14/2021	2.6								
9/15/2021		11.4	46.8		73.4	37.8			
9/16/2021				41.8			72.7	86.9	70.9
1/25/2022	2.4								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-7D	PZ-15	PZ-16	PZ-19	PZ-18	PZ-17
1/26/2022		9.1	37.8		77.2	38.9			
1/27/2022				46.7			76.3	89.9 (M1)	62.1
8/24/2022	2.2								
8/25/2022		10.7	45.6	47.3	75.5	38.7	84.4	96.3	62.7
2/14/2023	1.6	10	35.1						
2/15/2023				49.9	75.7 (M1)	38.1	78.8	96.6	
2/16/2023									54.2
9/19/2023	2.2					37.5			
9/20/2023		12.5	44.3	40.7	74.9		83.4	93.8	34.3
9/21/2023									
2/27/2024									
2/28/2024	<1		33.5	40.3	77.4				
2/29/2024		13.3				37.9	71.5	92.7	45.4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	48				
10/18/2016		2.3	2.2		
12/6/2016			6.1		
12/7/2016		1.9			
12/8/2016	46			100	
3/21/2017			5.7		
3/22/2017	53				
3/23/2017		1.7		100	
7/11/2017	51	1.8	4.8		
7/12/2017				97	
10/17/2017		1.9	6.4		
10/18/2017	50				
10/19/2017				97	
2/20/2018		2.1	5.2		
2/21/2018	46.8			93.6	
4/12/2018					4.8 (J)
5/23/2018					4.5
6/13/2018					5.3
7/11/2018		2	3.6		5.4
7/12/2018	48.3			89.4	
8/15/2018					
8/16/2018					
8/17/2018					4.5
9/12/2018			2.7		4.4
9/13/2018	42	2.1			
9/14/2018				88.9	
10/4/2018				97.8	5.8
10/24/2018					6.2
3/26/2019			1.6		
3/27/2019	43.7	2.4			3.7
3/28/2019				76.7	
9/10/2019					
10/1/2019		2.2			
10/2/2019	43		1.6		4.1
10/3/2019				72.1	
3/24/2020					3.1
3/25/2020	39.1	1.9	1.5		
3/26/2020				66.6	
10/6/2020		1.9	0.98 (J)		3.1
10/7/2020	38.1			54.6	
3/3/2021	39.2	2	0.6 (J)		
3/4/2021				49.3	
3/8/2021					2.7
9/14/2021		1.8			3.8
9/15/2021	37.8		0.64 (J)		
9/16/2021				40.4	
1/25/2022					2.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	37.5	1.9	0.69 (J)		
1/27/2022				40	
8/24/2022	35.7	1.7	0.56 (J)	34.7	2
8/25/2022					
2/14/2023		2	0.89 (J)		2.6
2/15/2023	37.1				
2/16/2023				36	
9/19/2023	34.7	1.5	0.61 (J)		3.2
9/20/2023					
9/21/2023				34.8	
2/27/2024	34	1.4			2.6
2/28/2024			0.54 (J)		
2/29/2024				32.2	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
8/30/2016	136								
8/31/2016		344	400						
9/1/2016				284	373				
9/6/2016						257			
9/7/2016							392	415	508
9/8/2016									
10/18/2016									
12/6/2016	207								
12/7/2016		393	406	242	433	248			
12/8/2016							431	441	556
3/21/2017	128	276	409						
3/22/2017				332	409	304	456	469	
3/23/2017									482
7/11/2017	138	263	414			265			
7/12/2017				308	374		445	432	497
10/17/2017	101								
10/18/2017		261	366	275		240	349	368	
10/19/2017					318				448
2/20/2018	138	295	429						
2/21/2018				312	367	285	411	409	500
4/12/2018									
5/23/2018									
6/13/2018									
7/11/2018	153	294	440						
7/12/2018				337	423	285			523
8/15/2018								422	
8/16/2018							415		
8/17/2018									
9/12/2018	146	286							
9/13/2018			448	336	394	291		438	
9/14/2018							403		486
10/4/2018									
10/24/2018									
3/26/2019	334								
3/27/2019		281	410			277		408	
3/28/2019				337	365		420		378
9/10/2019			420						
10/1/2019	146								
10/2/2019		312		355		284	415		
10/3/2019					405			464	485
3/24/2020	228								
3/25/2020		330	454				408		
3/26/2020				330	332	286		415	440
10/6/2020	153	241	462			261			
10/7/2020				336	334		392	425	492
3/3/2021	134	258	444						452
3/4/2021				300	335	264	325	427	
3/8/2021									
9/14/2021	150								
9/15/2021		292	422	326		270			
9/16/2021					307		330	419	450
1/25/2022	148								

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-1D (bg)	PZ-14	PZ-23A	PZ-15	PZ-7D	PZ-16	PZ-17	PZ-18	PZ-19
1/26/2022		288	413	308		267			
1/27/2022					331		329	433	442
8/24/2022	139								
8/25/2022		259	437	319	325	90	321	446	528
10/11/2022									
2/14/2023	200	300	414						
2/15/2023				329	335 (D6)	334		477	529
2/16/2023							299		
9/19/2023	146					298			
9/20/2023		293	421	328	302		256	451	512
9/21/2023									
2/27/2024									
2/28/2024	176		430	342	325				
2/29/2024		308				292	277	473	470

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
8/30/2016					
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016					
9/8/2016	293				
10/18/2016		152	264		
12/6/2016			299		
12/7/2016		214			
12/8/2016	309			503 (o)	
3/21/2017			260		
3/22/2017	299				
3/23/2017		165		430	
7/11/2017	301	162	244		
7/12/2017				438	
10/17/2017		140	218		
10/18/2017	256				
10/19/2017				393	
2/20/2018		163	264		
2/21/2018	297			435	
4/12/2018					69
5/23/2018					62
6/13/2018					93
7/11/2018		192	273		84
7/12/2018	310			447	
8/15/2018					
8/16/2018					
8/17/2018					115
9/12/2018			252		97
9/13/2018	307	192			
9/14/2018				447	
10/4/2018				450	103
10/24/2018					110
3/26/2019			253		
3/27/2019	287	167			87
3/28/2019				405	
9/10/2019					
10/1/2019		187			
10/2/2019	312		263		95
10/3/2019				414	
3/24/2020					123
3/25/2020	280	178	278		
3/26/2020				336	
10/6/2020		169	254		81
10/7/2020	280			337	
3/3/2021	267	166	264		
3/4/2021				283	
3/8/2021					126
9/14/2021		179			71
9/15/2021	272		256		
9/16/2021				296	
1/25/2022					68

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/11/2024 11:42 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)
1/26/2022	276	182	262		
1/27/2022				274	
8/24/2022			261	265	
8/25/2022					
10/11/2022	267	173			75
2/14/2023		177	257		140
2/15/2023	264				
2/16/2023				293	
9/19/2023	311	217	265		86
9/20/2023					
9/21/2023				300	
2/27/2024	287	192			75
2/28/2024			276		
2/29/2024				314	

FIGURE E.

Appendix III - Trend Test Summary - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**PZ-17**	**-0.02393**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-25**	**-0.006207**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-33**	**-0.01092**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.02781**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.556**	**114**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-1D (bg)**	**1.538**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-31 (bg)**	**1.86**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.475**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2161**	**-96**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.2842**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2483**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-14**	**1.601**	**126**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-16**	**-2.177**	**-126**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.807**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-19**	**-1.694**	**-98**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-25**	**-2.323**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.4785**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.6982**	**-130**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-33**	**-11.17**	**-155**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.31**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-33**	**-27.09**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-11.41**	**-91**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

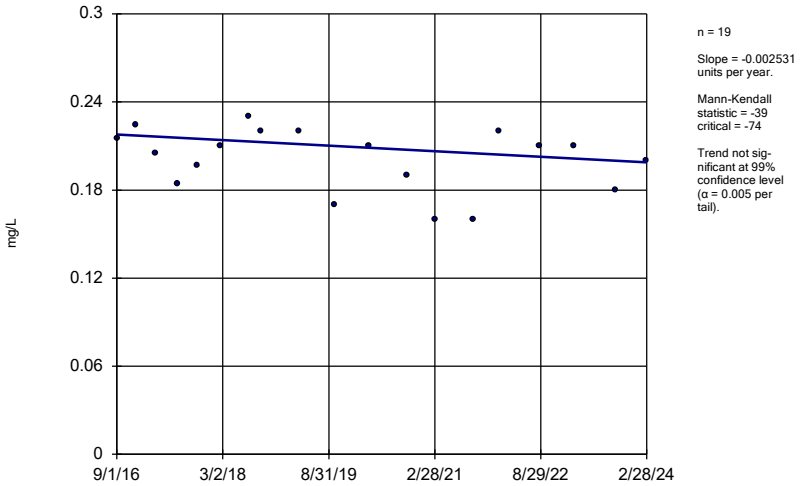
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 4/11/2024, 11:47 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	PZ-15	-0.002531	-39	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0	-9	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-17**	**-0.02393**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-18	0	13	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01774	-59	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0006342	39	74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	-0.0042	-63	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-25**	**-0.006207**	**-84**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	PZ-2D (bg)	-0.0009057	-54	-74	No	19	5.263	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	0.0002323	16	74	No	19	26.32	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	0	-5	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	**PZ-33**	**-0.01092**	**-91**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**PZ-7D**	**-0.02781**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-18**	**4.556**	**114**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-19	0.9233	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-1D (bg)**	**1.538**	**75**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	PZ-23A	1.084	34	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	0.7454	25	74	No	19	5.263	n/a	n/a	0.01	NP
Calcium (mg/L)	**PZ-31 (bg)**	**1.86**	**81**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**PZ-32 (bg)**	**1.475**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-15**	**-0.2161**	**-96**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**PZ-16**	**-0.2842**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-1D (bg)	-0.06016	-64	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	-0.03578	-46	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**PZ-31 (bg)**	**-0.2483**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	PZ-32 (bg)	-0.1064	-72	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	PZ-18	-0.01886	-58	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.008614	20	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	PZ-1D (bg)	-0.0192	-68	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	45	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.1075	-29	-58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	0	-6	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	0.0077	28	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-14**	**1.601**	**126**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-15	0.07935	1	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-16**	**-2.177**	**-126**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-17**	**-7.807**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-18	-0.5041	-30	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-19**	**-1.694**	**-98**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-1D (bg)	-0.04614	-37	-74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	2.416	71	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-25**	**-2.323**	**-141**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-2D (bg)**	**-0.4785**	**-104**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-31 (bg)**	**-0.6982**	**-130**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	PZ-32 (bg)	-0.04843	-47	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**PZ-33**	**-11.17**	**-155**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**PZ-7D**	**-2.31**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	PZ-14	-0.7803	-9	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	3.75	40	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	5.117	56	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-3.285	-15	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	2.769	40	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	3.259	56	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	1.333	8	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	0.7046	20	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	3.391	54	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**PZ-33**	**-27.09**	**-80**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**PZ-7D**	**-11.41**	**-91**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-15



n = 19

Slope = -0.002531 units per year.

Mann-Kendall statistic = -39
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

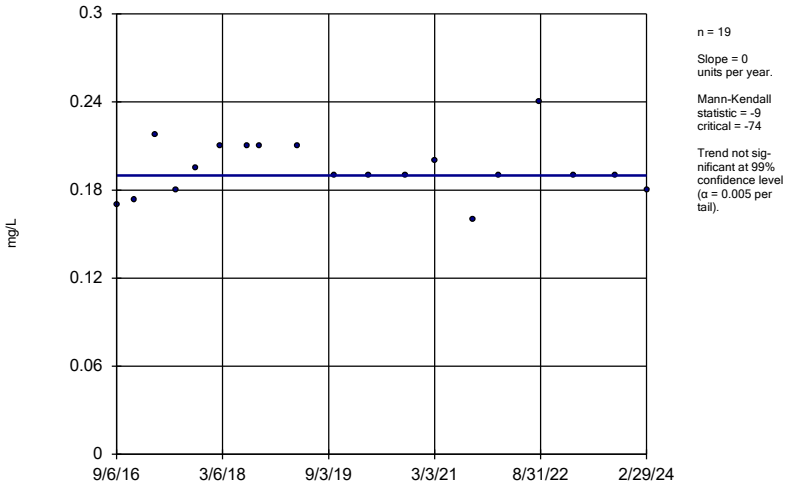
Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-16



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

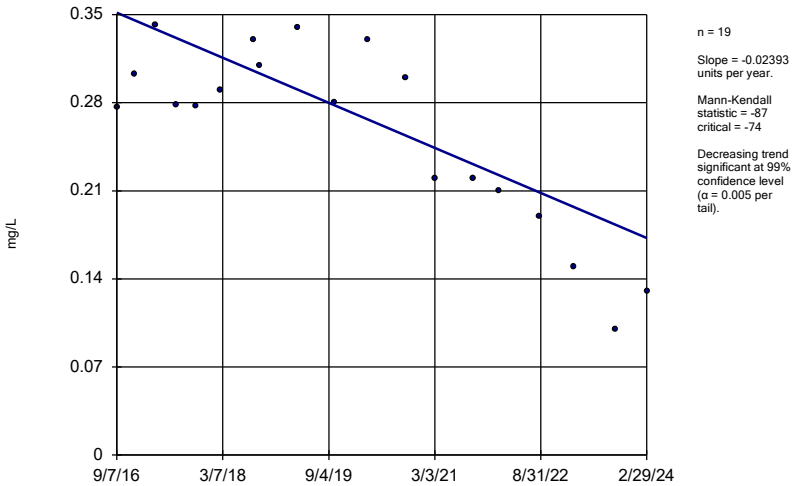
Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-17



n = 19

Slope = -0.02393 units per year.

Mann-Kendall statistic = -87
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

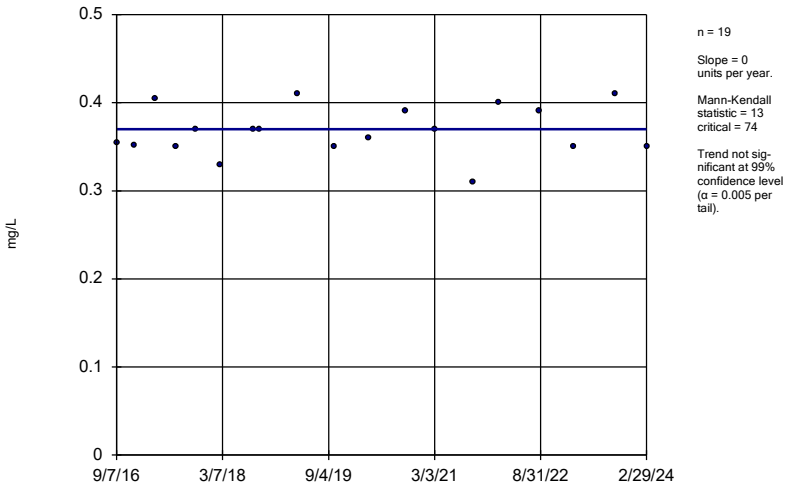
Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-18



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

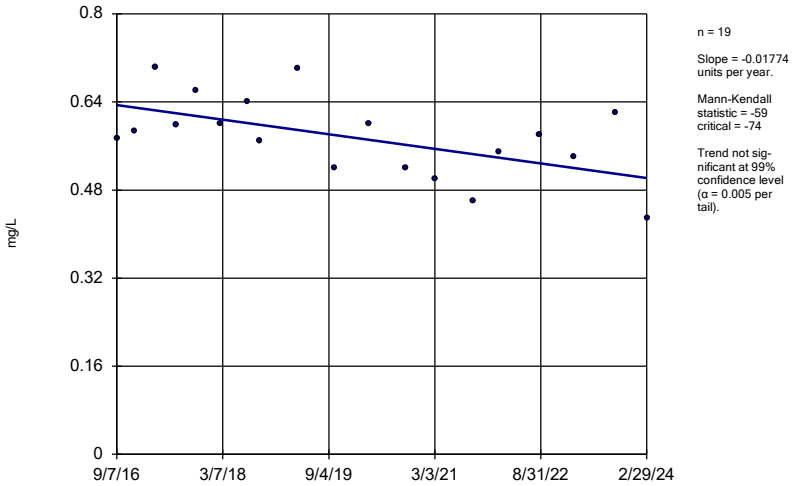
Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-19



n = 19

Slope = -0.01774 units per year.

Mann-Kendall statistic = -59
critical = -74

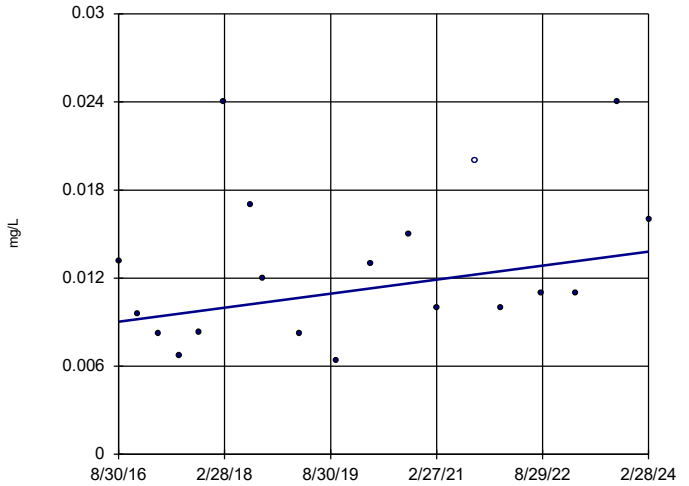
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-1D (bg)



n = 19

Slope = 0.0006342 units per year.

Mann-Kendall statistic = 39
critical = 74

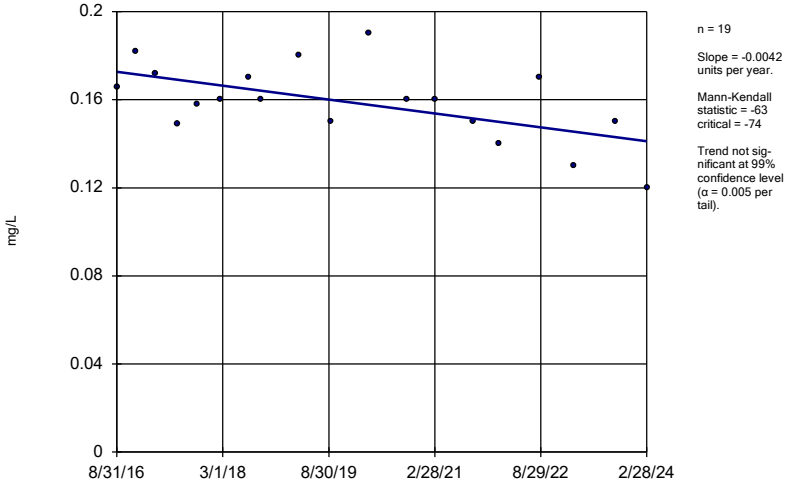
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-23A



n = 19

Slope = -0.0042 units per year.

Mann-Kendall statistic = -63
critical = -74

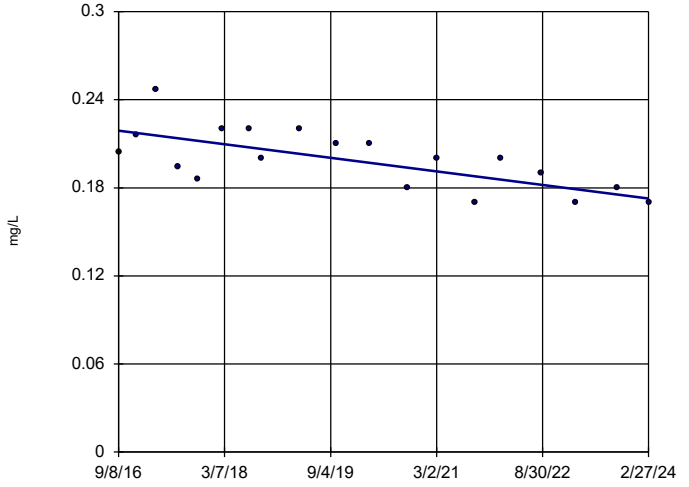
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-25



n = 19

Slope = -0.006207 units per year.

Mann-Kendall statistic = -84
critical = -74

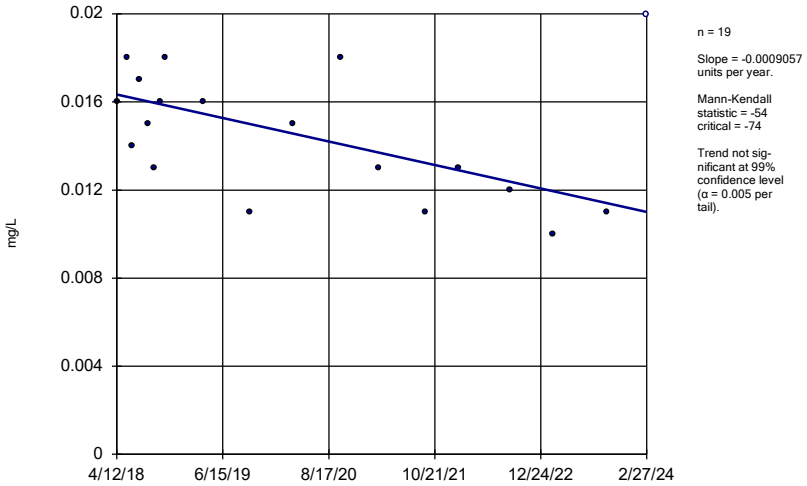
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-2D (bg)



n = 19

Slope = -0.0009057 units per year.

Mann-Kendall statistic = -54
critical = -74

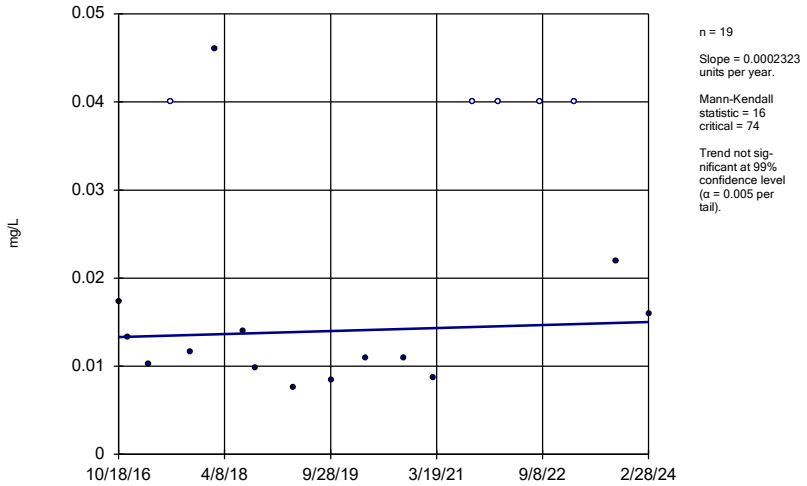
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = 0.0002323 units per year.

Mann-Kendall statistic = 16
critical = 74

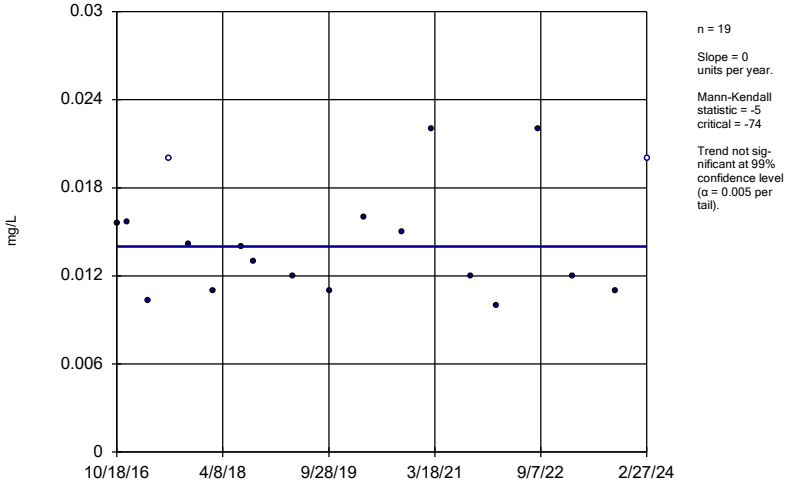
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -74

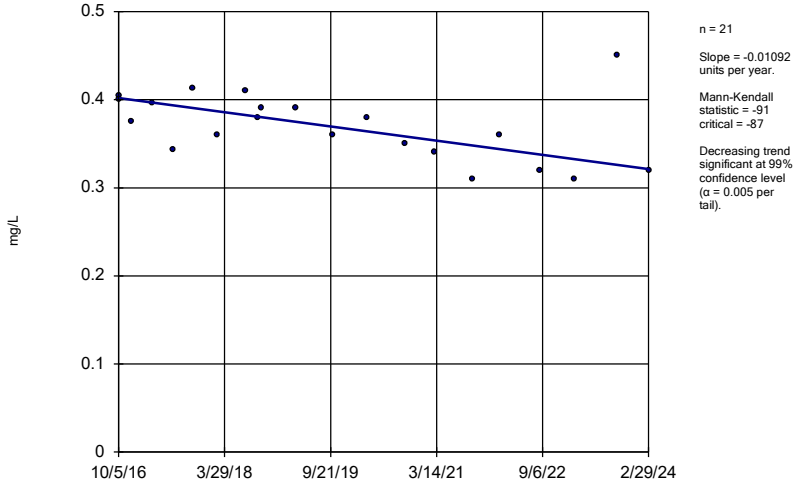
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-33



n = 21

Slope = -0.01092 units per year.

Mann-Kendall statistic = -91
critical = -87

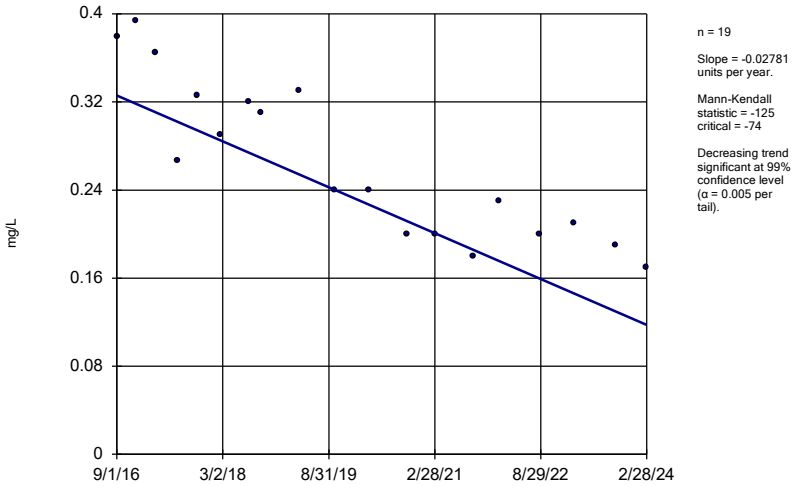
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-7D



n = 19

Slope = -0.02781 units per year.

Mann-Kendall statistic = -125
critical = -74

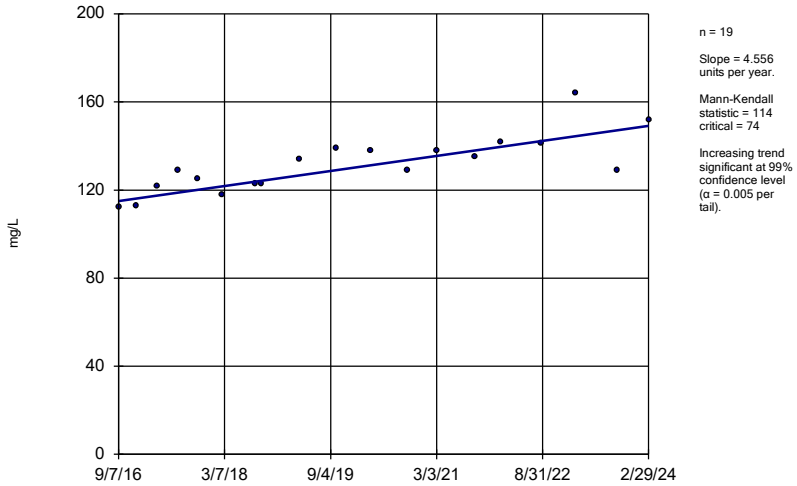
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-18



n = 19

Slope = 4.556 units per year.

Mann-Kendall statistic = 114
critical = 74

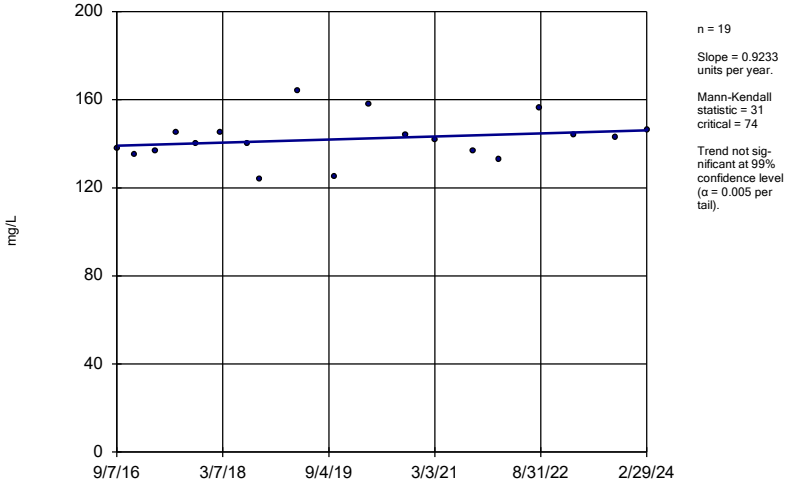
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-19



n = 19

Slope = 0.9233 units per year.

Mann-Kendall statistic = 31
critical = 74

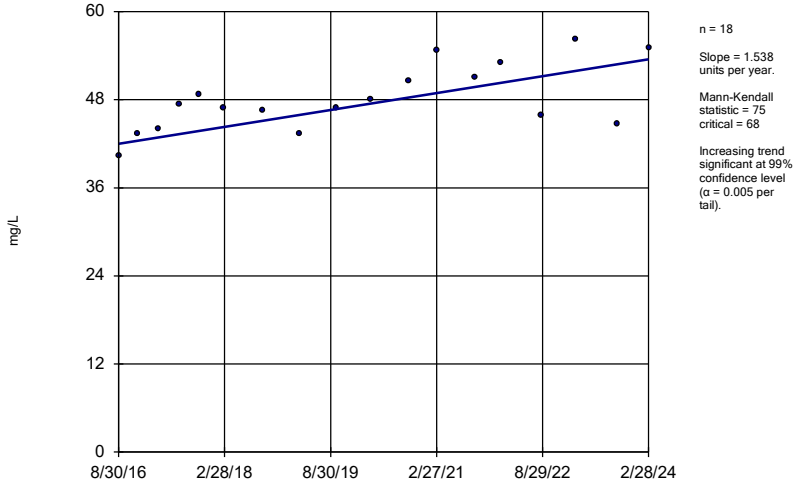
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 18

Slope = 1.538 units per year.

Mann-Kendall statistic = 75
critical = 68

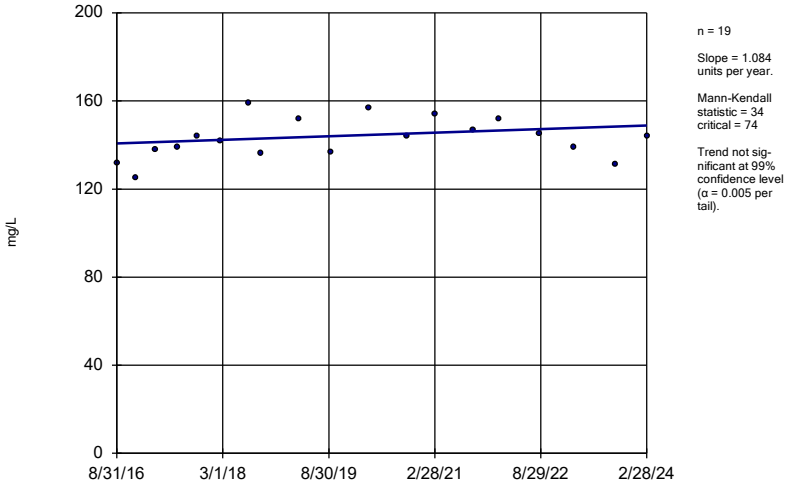
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-23A



n = 19

Slope = 1.084 units per year.

Mann-Kendall statistic = 34 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

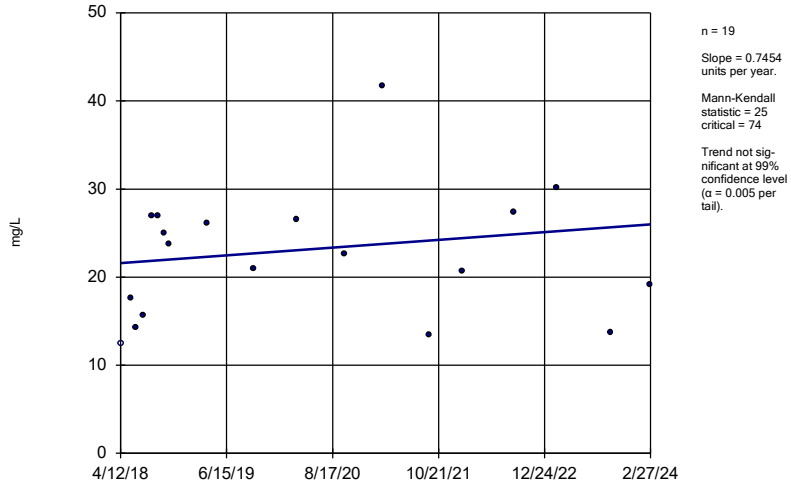
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-2D (bg)



n = 19

Slope = 0.7454 units per year.

Mann-Kendall statistic = 25 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

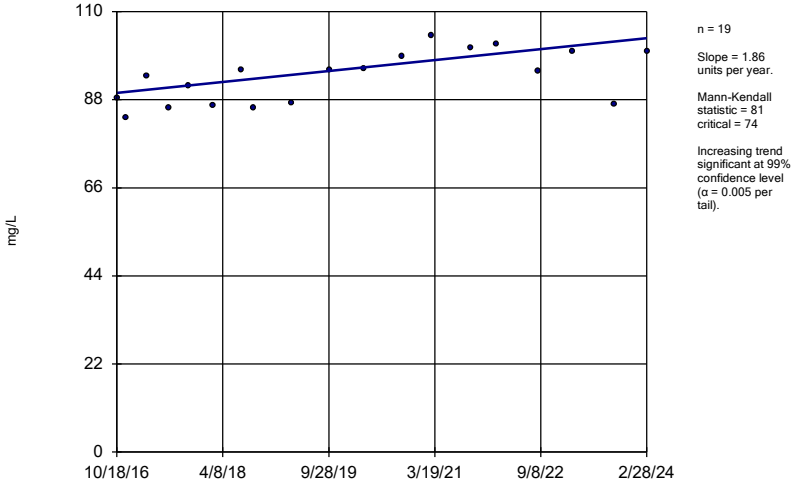
Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = 1.86 units per year.

Mann-Kendall statistic = 81 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

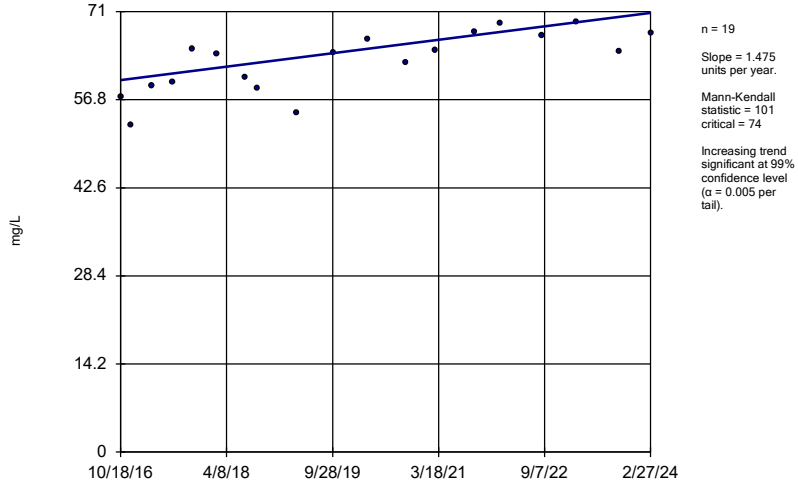
Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = 1.475 units per year.

Mann-Kendall statistic = 101 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

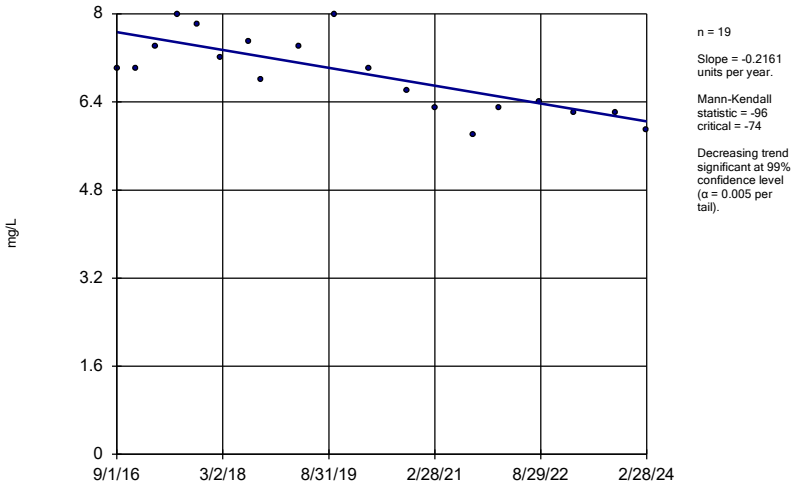
Constituent: Calcium Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-15



n = 19

Slope = -0.2161 units per year.

Mann-Kendall statistic = -96
critical = -74

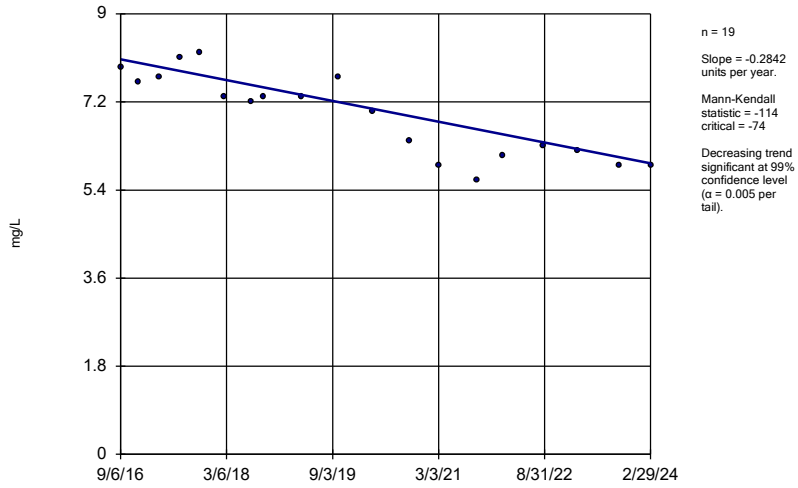
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-16



n = 19

Slope = -0.2842 units per year.

Mann-Kendall statistic = -114
critical = -74

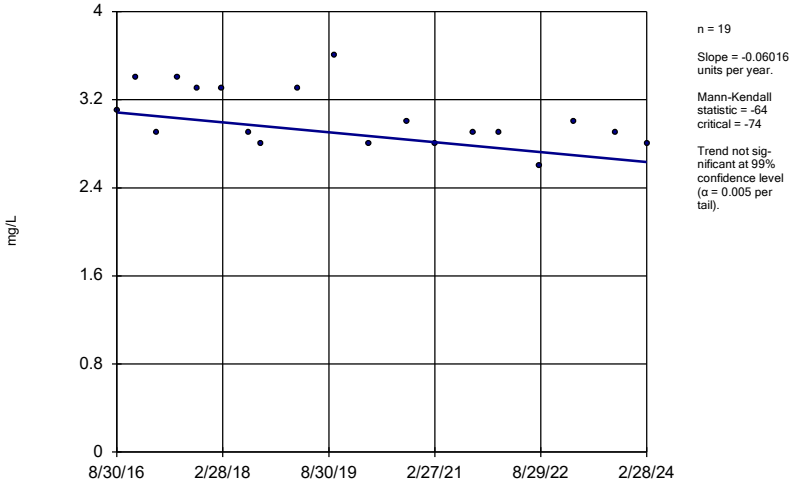
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 19

Slope = -0.06016 units per year.

Mann-Kendall statistic = -64
critical = -74

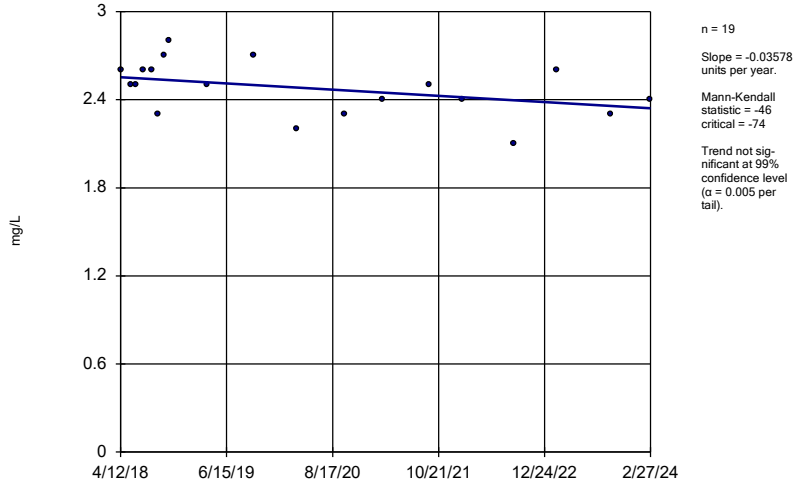
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 19

Slope = -0.03578 units per year.

Mann-Kendall statistic = -46
critical = -74

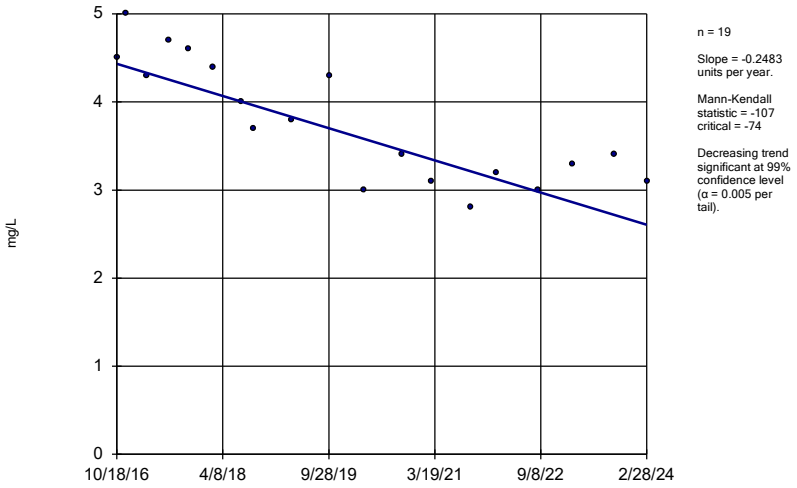
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = -0.2483 units per year.

Mann-Kendall statistic = -107 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

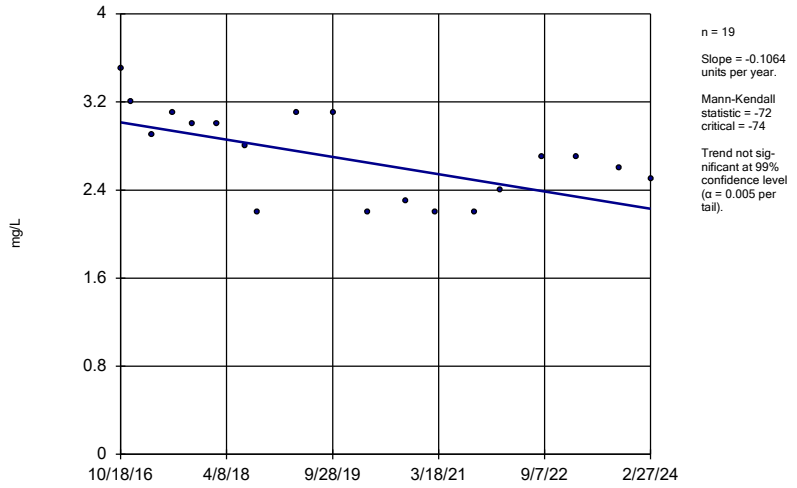
Constituent: Chloride Analysis Run 4/11/2024 11:44 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = -0.1064 units per year.

Mann-Kendall statistic = -72 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

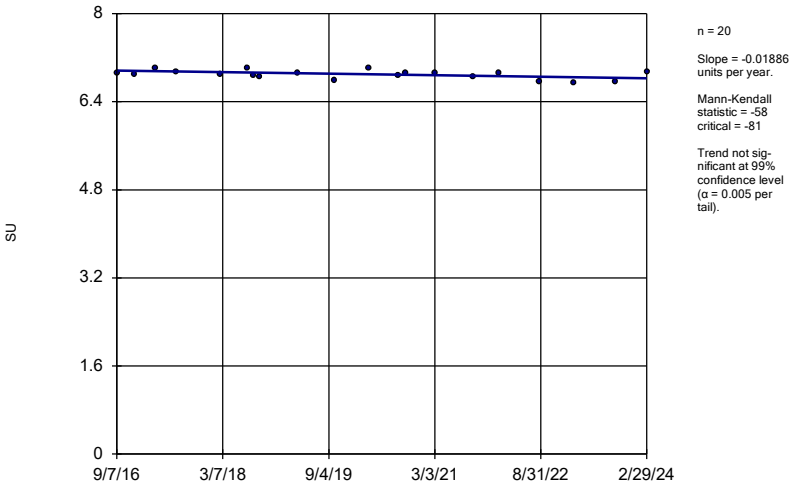
Constituent: Chloride Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-18



n = 20

Slope = -0.01886 units per year.

Mann-Kendall statistic = -58 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

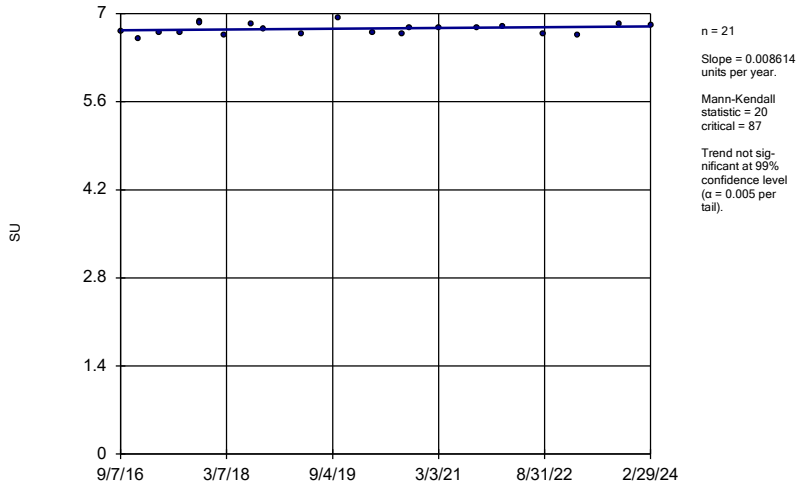
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-19



n = 21

Slope = 0.008614 units per year.

Mann-Kendall statistic = 20 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

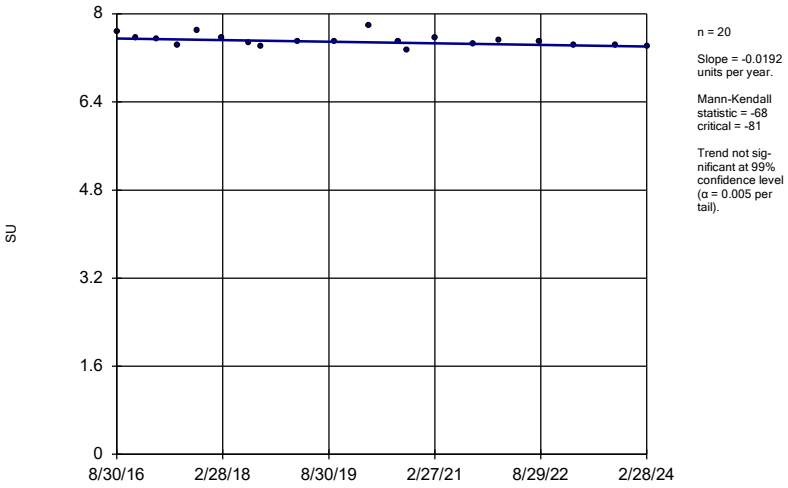
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 20

Slope = -0.0192 units per year.

Mann-Kendall statistic = -68
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

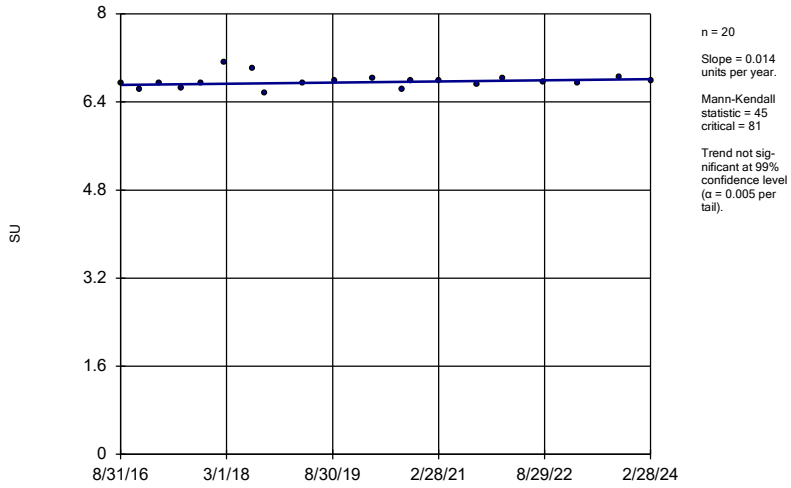
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-23A



n = 20

Slope = 0.014 units per year.

Mann-Kendall statistic = 45
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

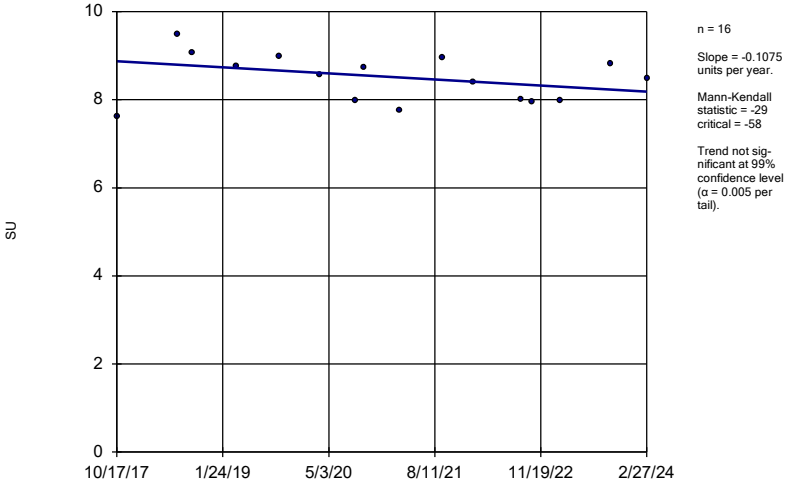
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 16

Slope = -0.1075 units per year.

Mann-Kendall statistic = -29
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

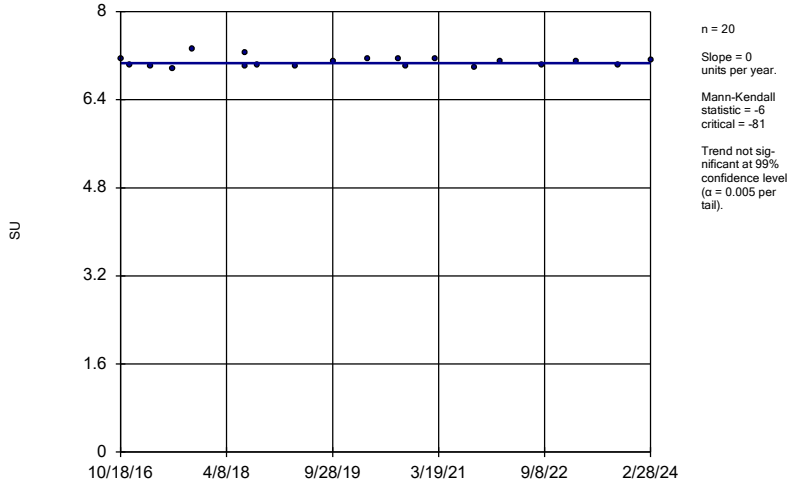
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

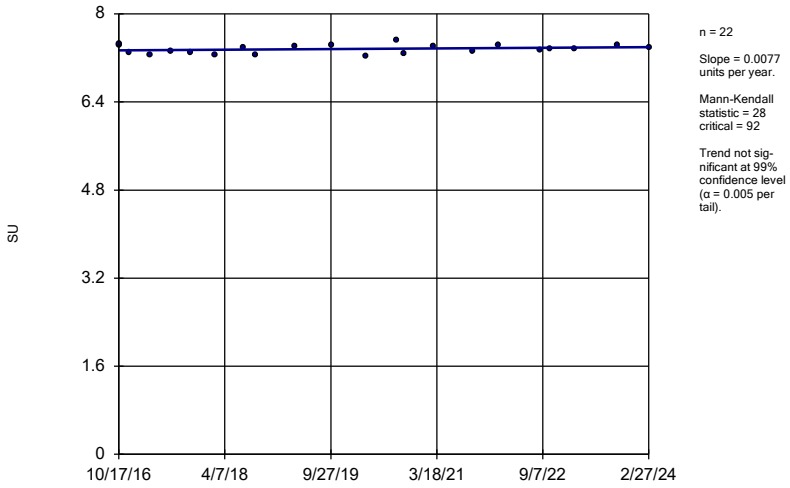
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 22

Slope = 0.0077 units per year.

Mann-Kendall statistic = 28 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

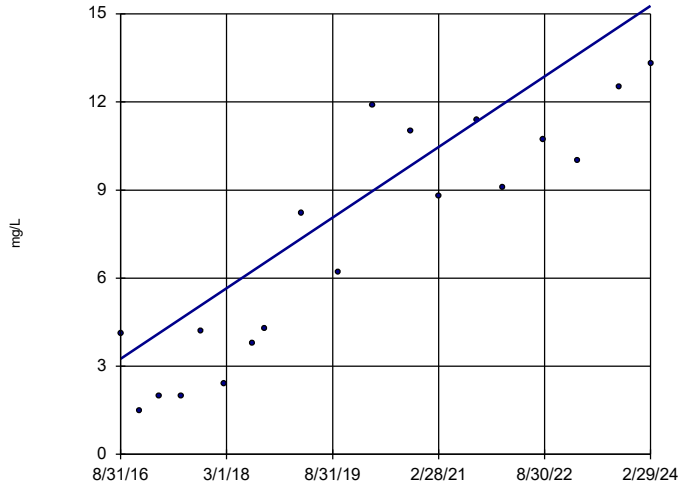
Constituent: pH Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-14



n = 19

Slope = 1.601 units per year.

Mann-Kendall statistic = 126 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

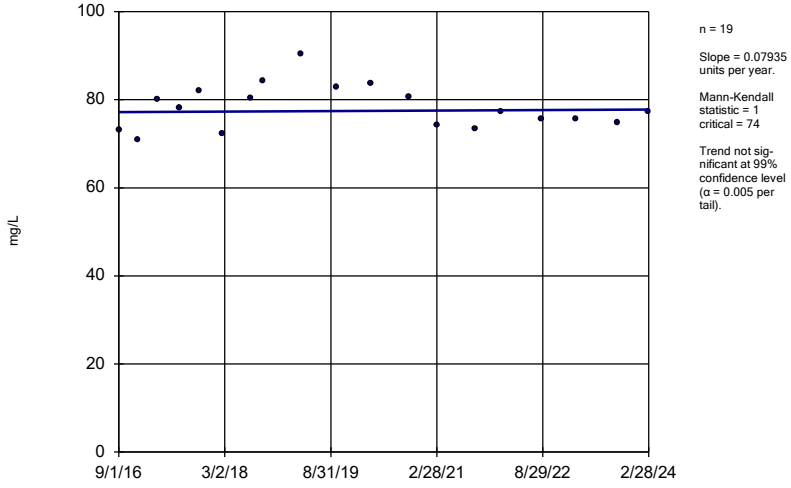
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-15



n = 19

Slope = 0.07935 units per year.

Mann-Kendall statistic = 1 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

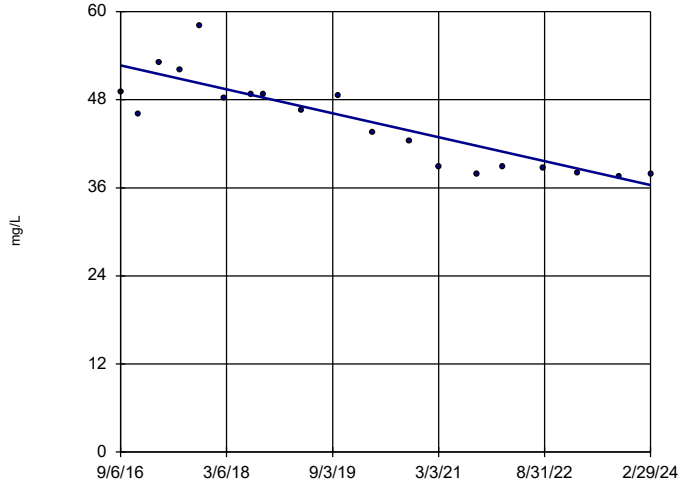
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-16



n = 19

Slope = -2.177 units per year.

Mann-Kendall statistic = -126 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

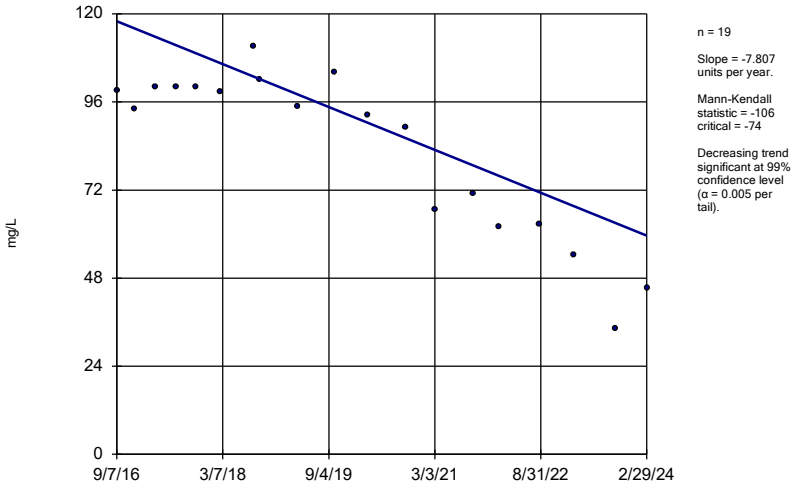
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-17



n = 19

Slope = -7.807 units per year.

Mann-Kendall statistic = -106 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

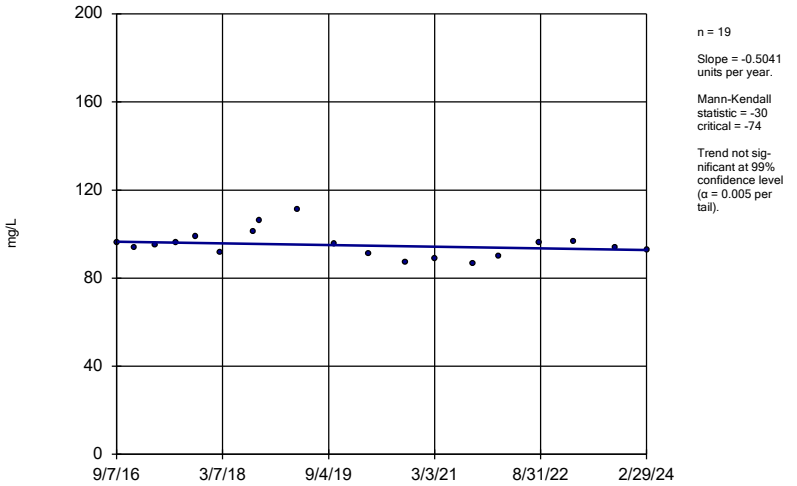
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-18



n = 19

Slope = -0.5041 units per year.

Mann-Kendall statistic = -30 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

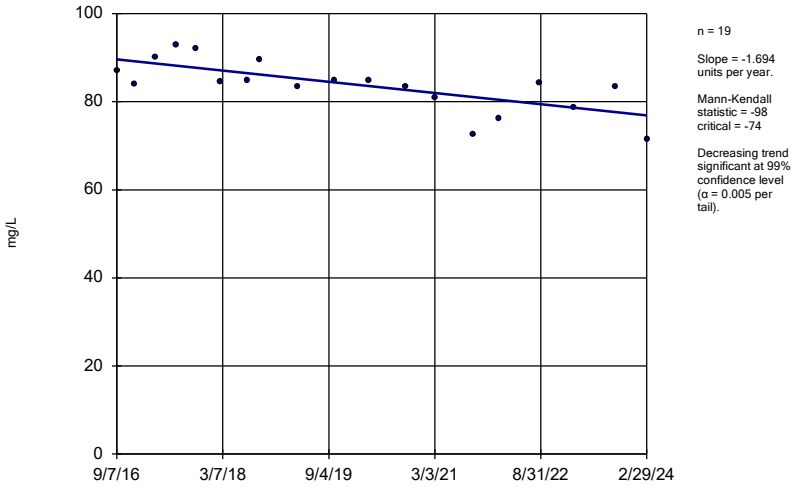
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-19



n = 19

Slope = -1.694 units per year.

Mann-Kendall statistic = -98 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

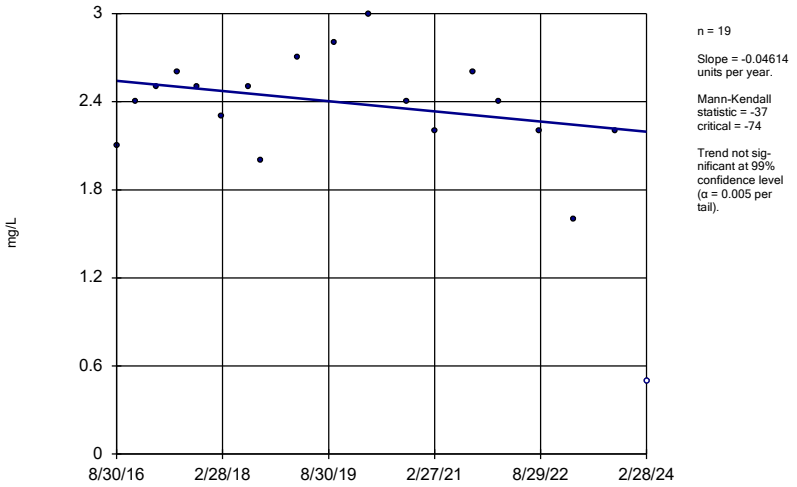
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

PZ-1D (bg)



n = 19

Slope = -0.04614 units per year.

Mann-Kendall statistic = -37 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

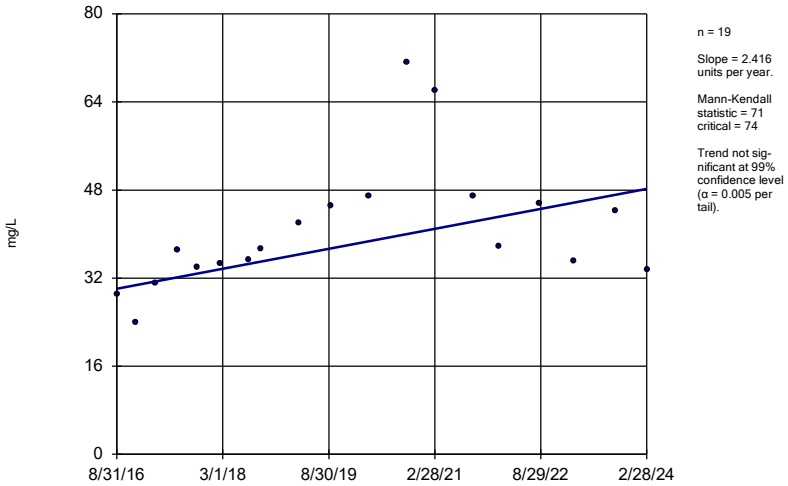
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-23A



n = 19

Slope = 2.416 units per year.

Mann-Kendall statistic = 71 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

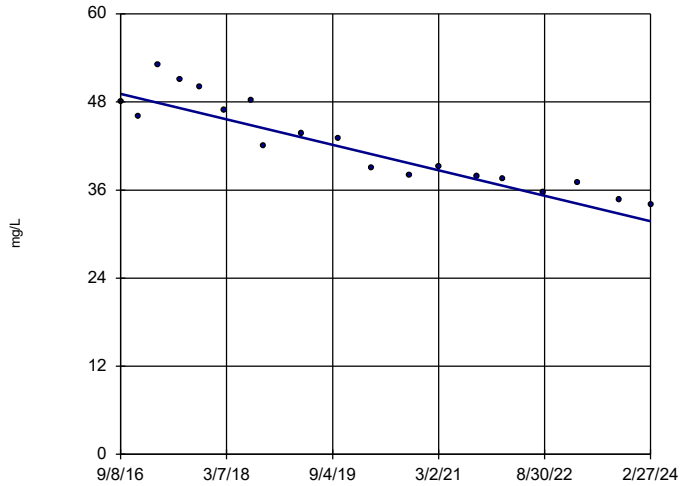
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-25



n = 19

Slope = -2.323 units per year.

Mann-Kendall statistic = -141 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

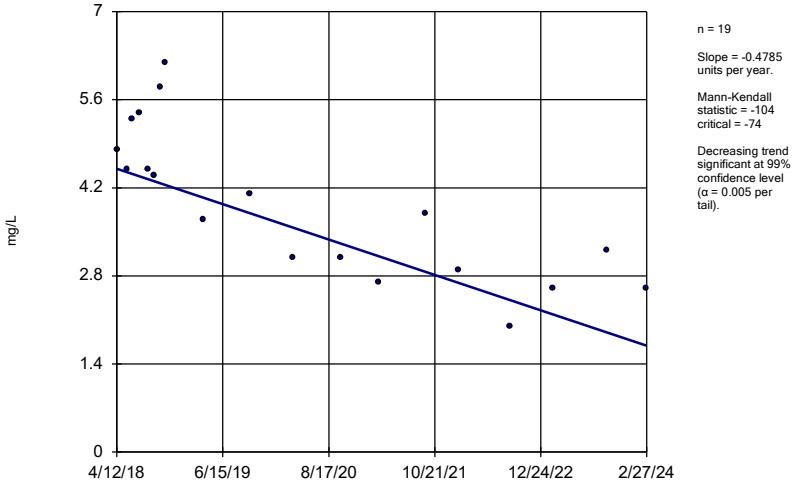
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 19

Slope = -0.4785 units per year.

Mann-Kendall statistic = -104 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

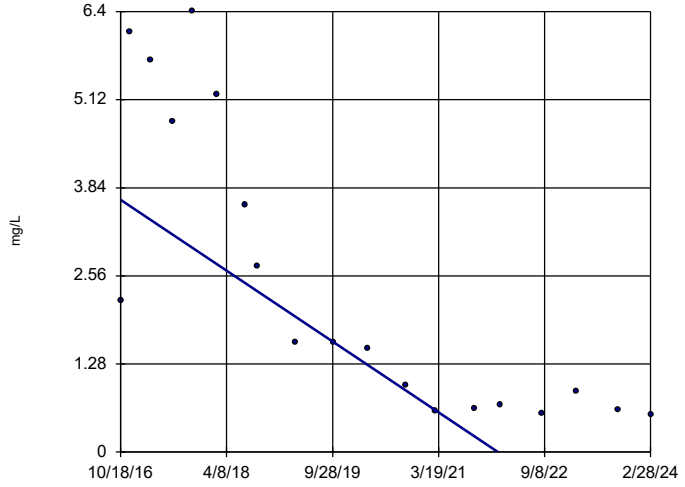
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = -0.6982 units per year.

Mann-Kendall statistic = -130 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

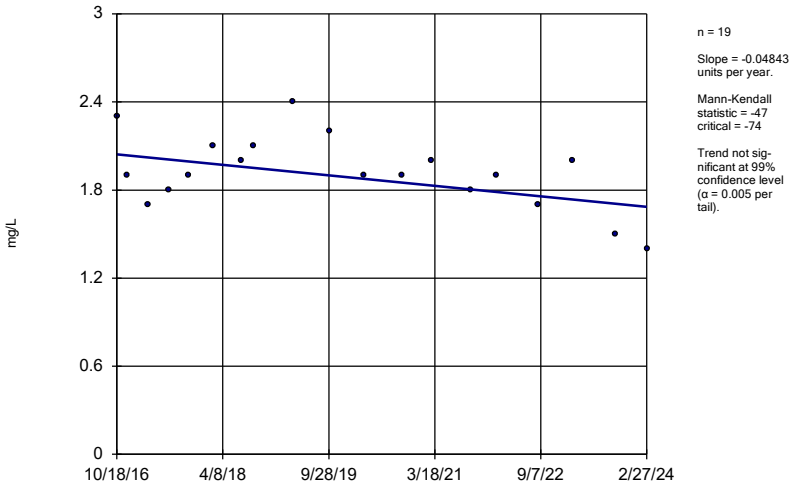
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = -0.04843 units per year.

Mann-Kendall statistic = -47 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

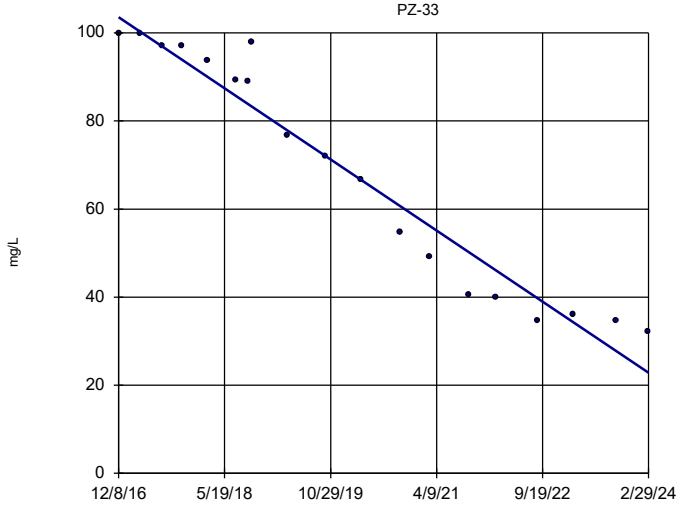
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-33



n = 19

Slope = -11.17 units per year.

Mann-Kendall statistic = -155 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

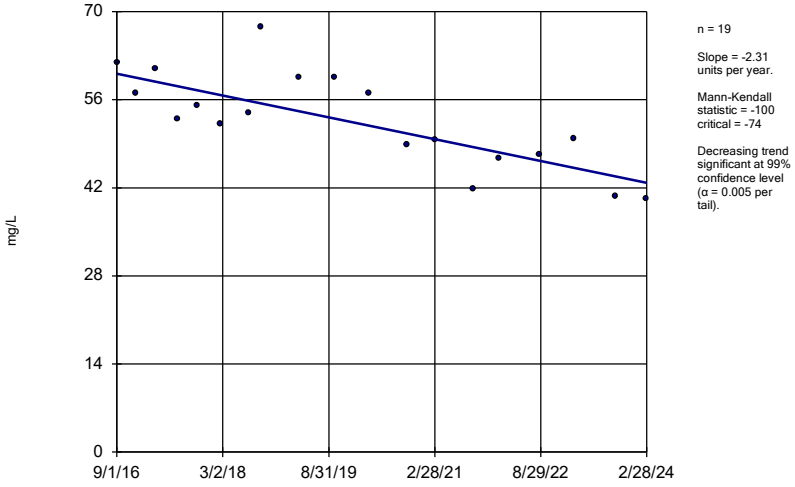
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-7D



n = 19

Slope = -2.31 units per year.

Mann-Kendall statistic = -100 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

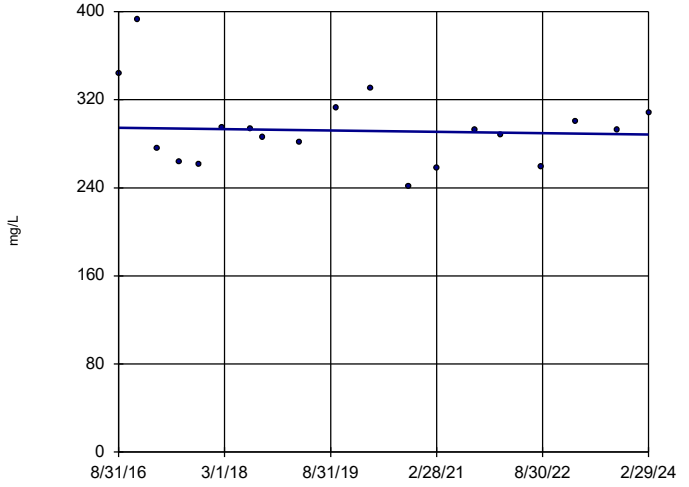
Constituent: Sulfate Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-14



n = 19

Slope = -0.7803 units per year.

Mann-Kendall statistic = -9 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

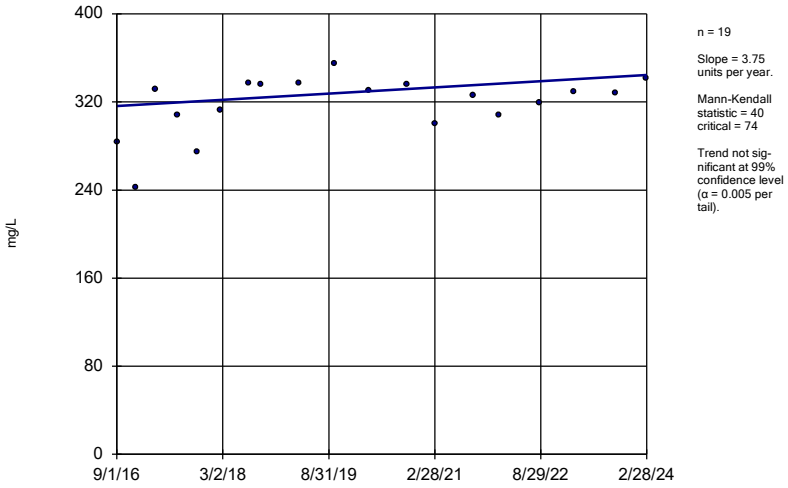
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-15



n = 19

Slope = 3.75 units per year.

Mann-Kendall statistic = 40 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

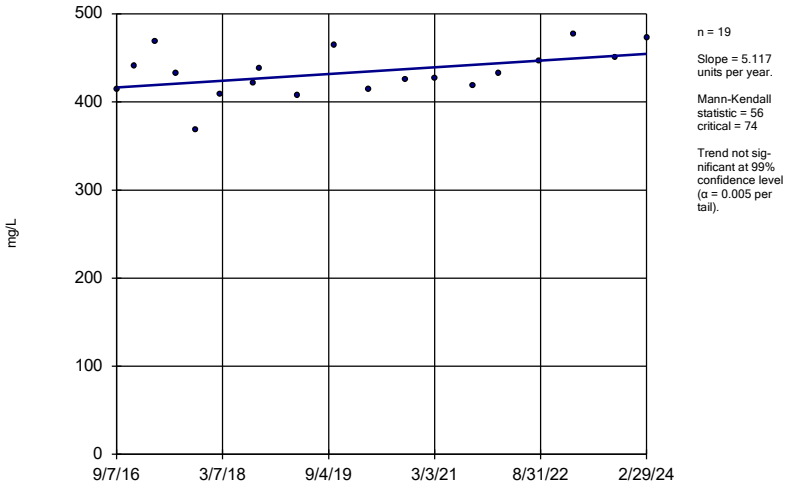
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-18



n = 19

Slope = 5.117 units per year.

Mann-Kendall statistic = 56 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

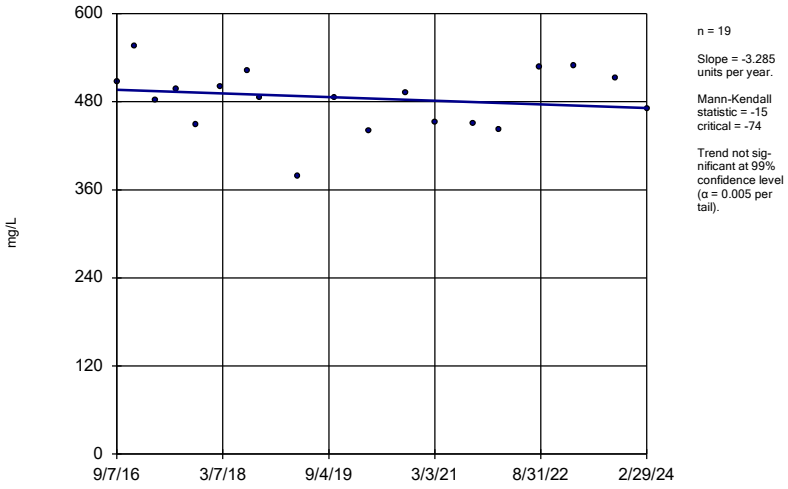
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-19



n = 19

Slope = -3.285 units per year.

Mann-Kendall statistic = -15 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

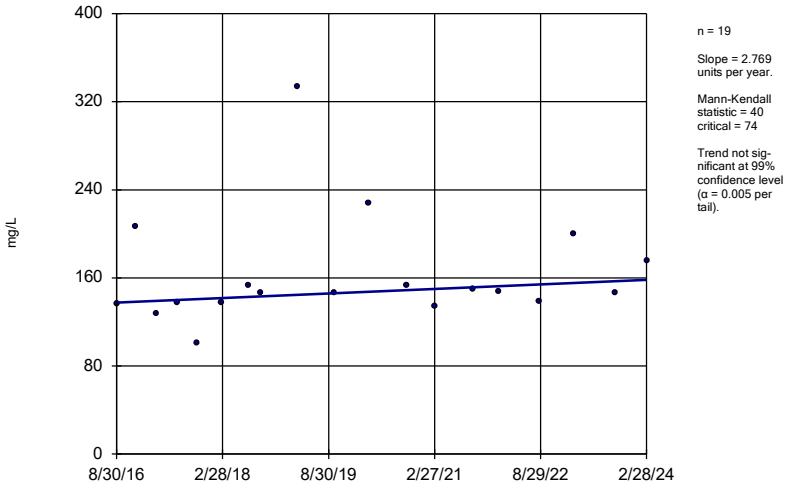
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-1D (bg)



n = 19

Slope = 2.769 units per year.

Mann-Kendall statistic = 40 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

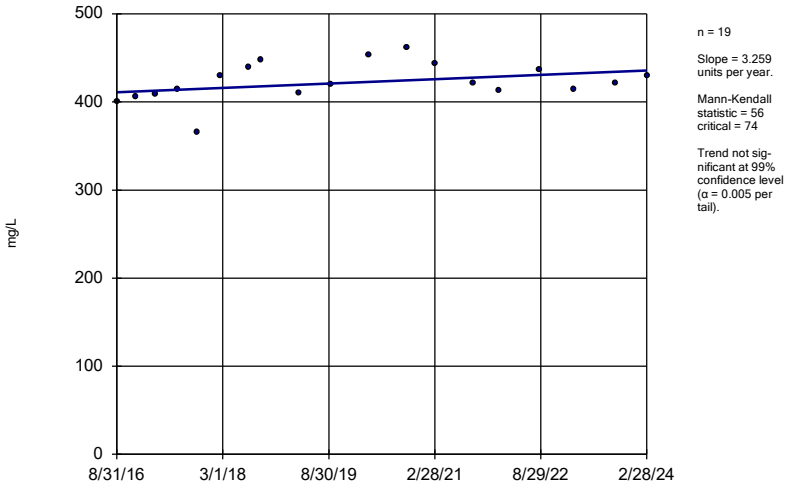
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-23A



n = 19

Slope = 3.259 units per year.

Mann-Kendall statistic = 56 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

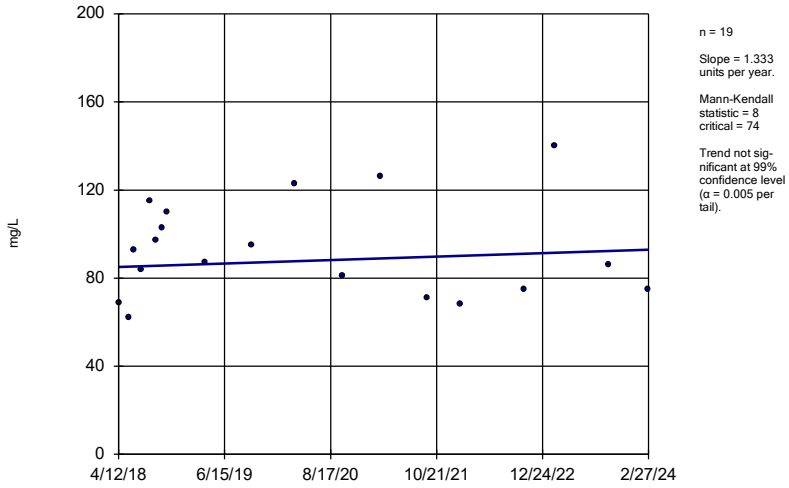
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-2D (bg)



n = 19

Slope = 1.333 units per year.

Mann-Kendall statistic = 8 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

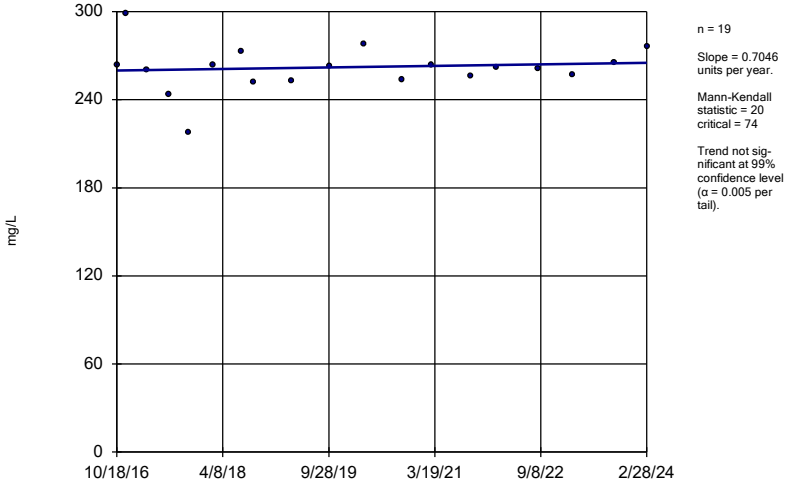
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-31 (bg)



n = 19

Slope = 0.7046 units per year.

Mann-Kendall statistic = 20 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

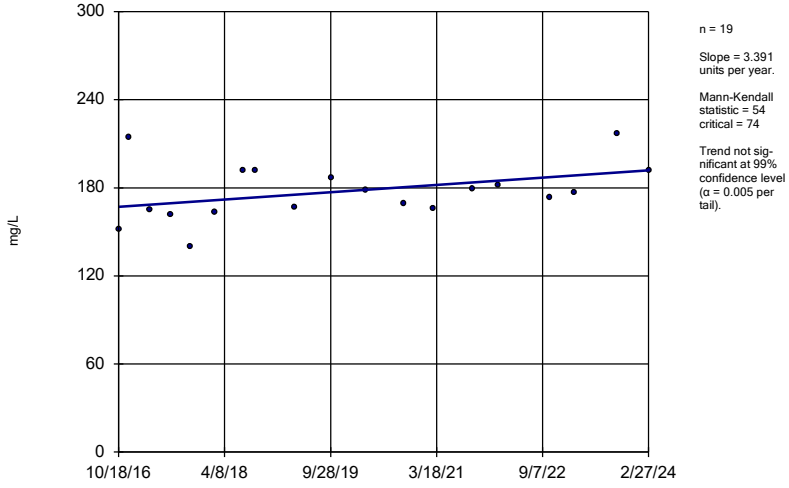
Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-32 (bg)



n = 19

Slope = 3.391 units per year.

Mann-Kendall statistic = 54 critical = 74

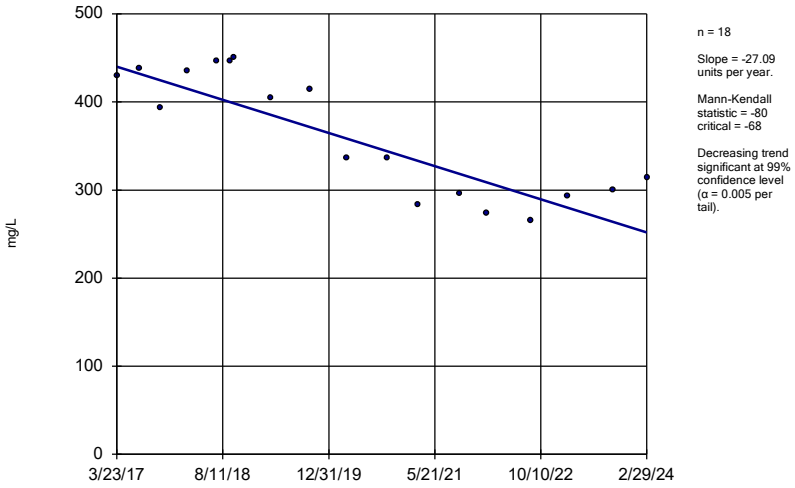
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator

PZ-33



n = 18

Slope = -27.09 units per year.

Mann-Kendall statistic = -80
critical = -68

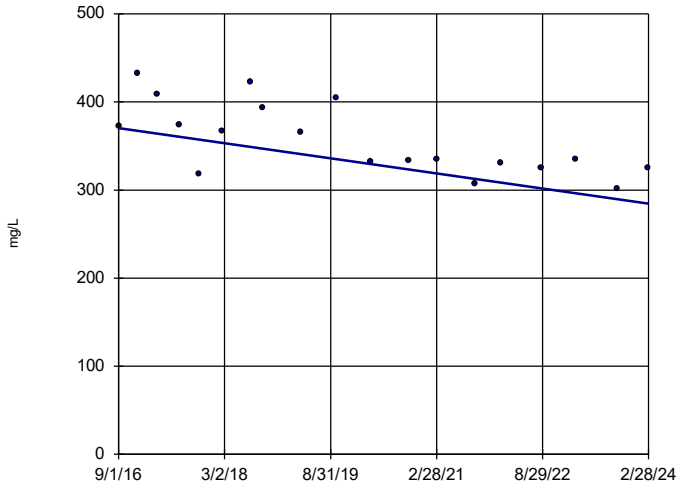
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG

Sen's Slope Estimator

PZ-7D



n = 19

Slope = -11.41 units per year.

Mann-Kendall statistic = -91
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/11/2024 11:45 AM View: Appendix III - Interwell PLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE F.

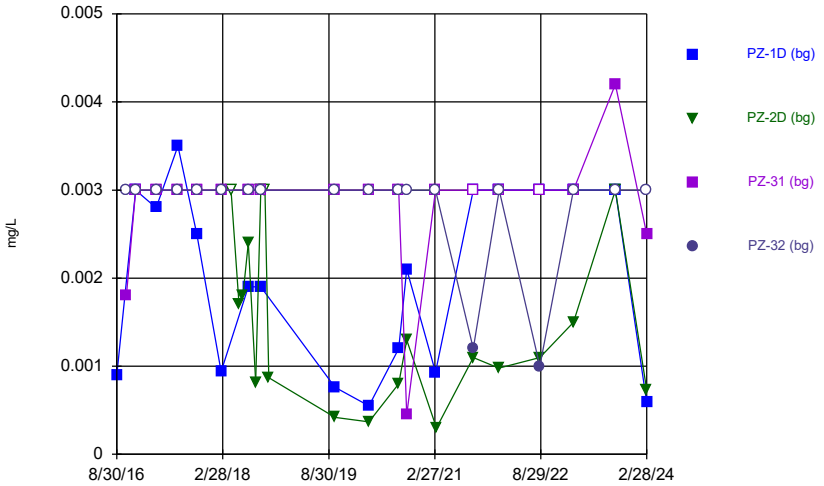
Upper Tolerance Limits Summary Table

Plant Mitchell Data: Mitchell Ash Pond CCR Printed 4/14/2024, 4:47 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0042	n/a	76	n/a	n/a	55.26	n/a	n/a	0.02028	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter(NDs)
Barium (mg/L)	0.04468	n/a	76	-4.445	0.6785	1.316	None	ln(x)	0.05	Inter
Beryllium (mg/L)	0.0005	n/a	60	n/a	n/a	96.67	n/a	n/a	0.04607	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	60	n/a	n/a	100	n/a	n/a	0.04607	NP Inter(NDs)
Chromium (mg/L)	0.011	n/a	76	n/a	n/a	27.63	n/a	n/a	0.02028	NP Inter(normality)
Cobalt (mg/L)	0.005	n/a	76	n/a	n/a	96.05	n/a	n/a	0.02028	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.61	n/a	74	0.7166	0.2796	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	0.29	n/a	80	n/a	n/a	45	n/a	n/a	0.01652	NP Inter(normality)
Lead (mg/L)	0.001	n/a	76	n/a	n/a	82.89	n/a	n/a	0.02028	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	76	n/a	n/a	80.26	n/a	n/a	0.02028	NP Inter(NDs)
Mercury (mg/L)	0.0002	n/a	68	n/a	n/a	91.18	n/a	n/a	0.03056	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	76	n/a	n/a	75	n/a	n/a	0.02028	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	76	n/a	n/a	100	n/a	n/a	0.02028	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	76	n/a	n/a	90.79	n/a	n/a	0.02028	NP Inter(NDs)

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

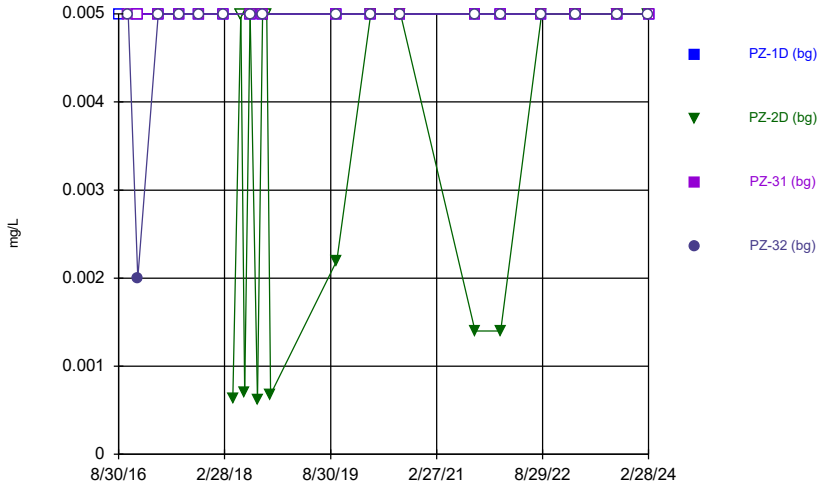
Time Series



Constituent: Antimony Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

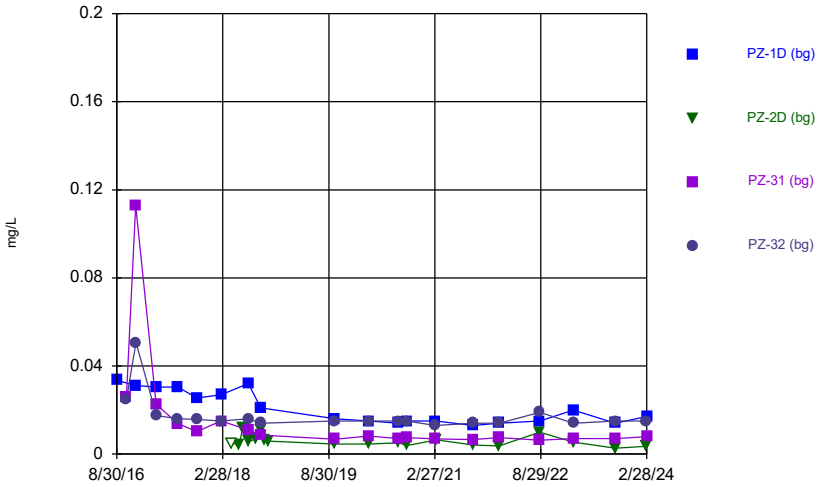
Time Series



Constituent: Arsenic Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

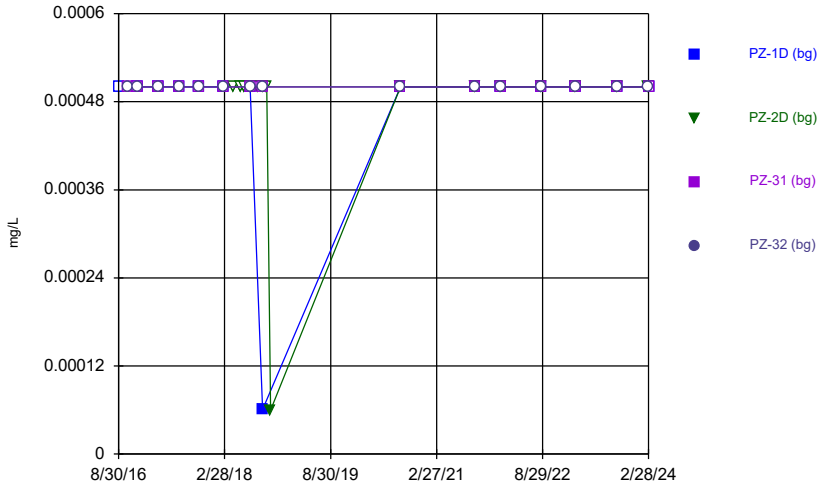
Time Series



Constituent: Barium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

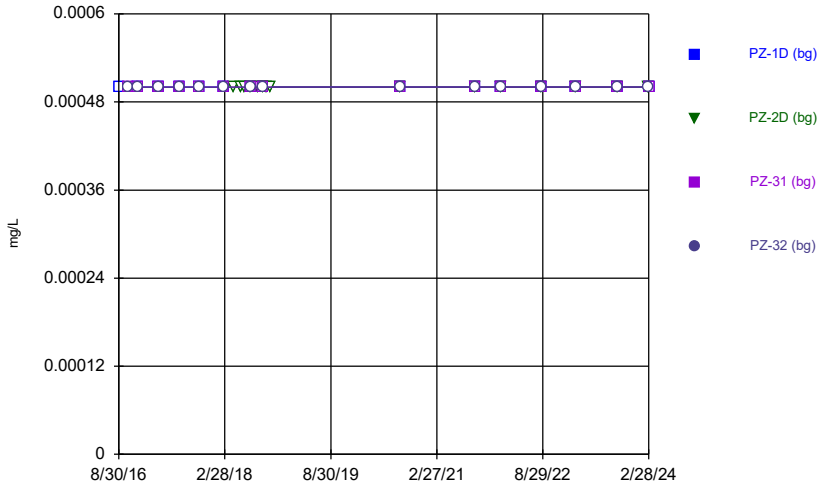
Time Series



Constituent: Beryllium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

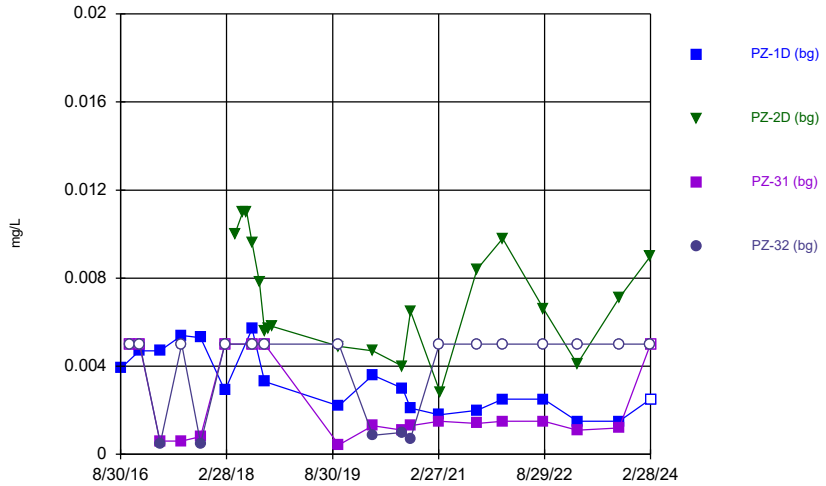
Time Series



Constituent: Cadmium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

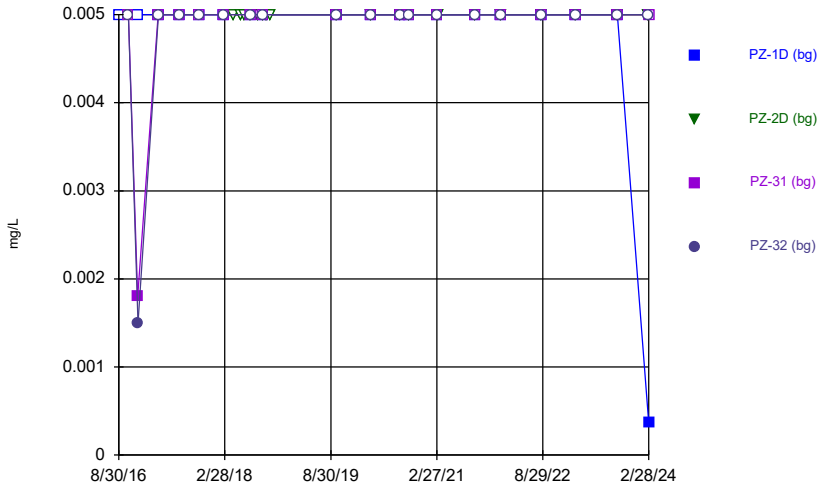
Time Series



Constituent: Chromium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

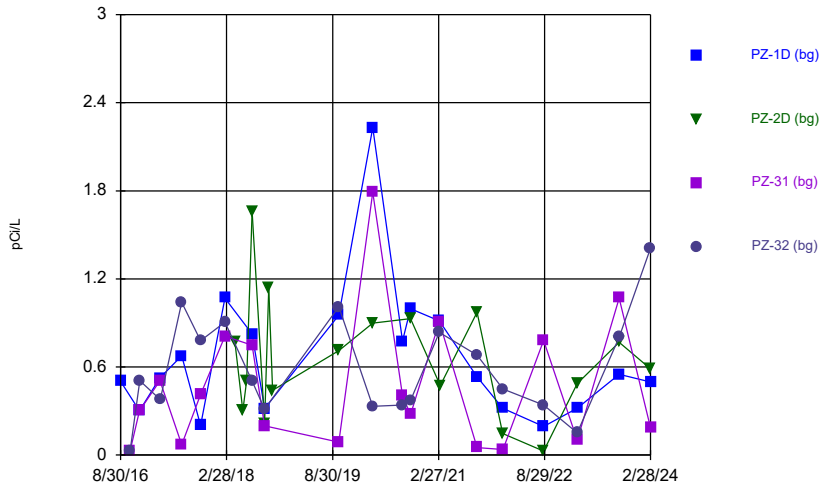
Time Series



Constituent: Cobalt Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

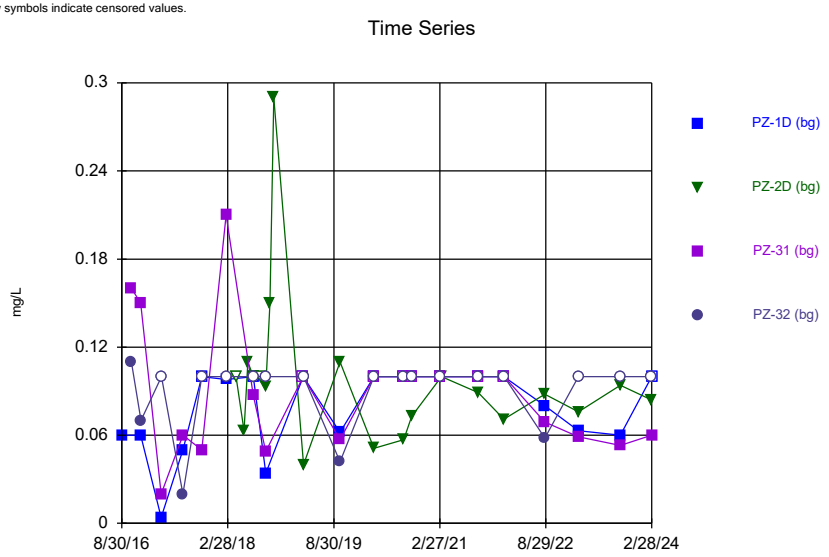
Sanitas™ v.10.0.16 . UG

Time Series



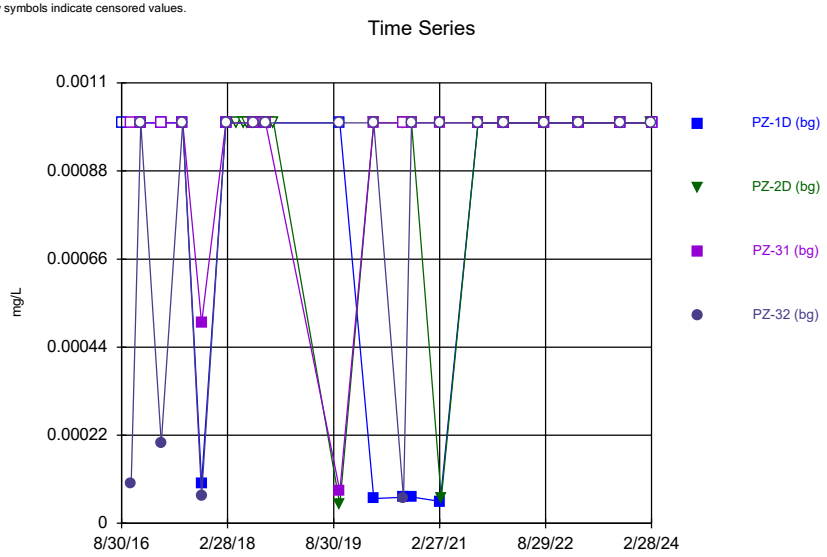
Constituent: Combined Radium 226 + 228 Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



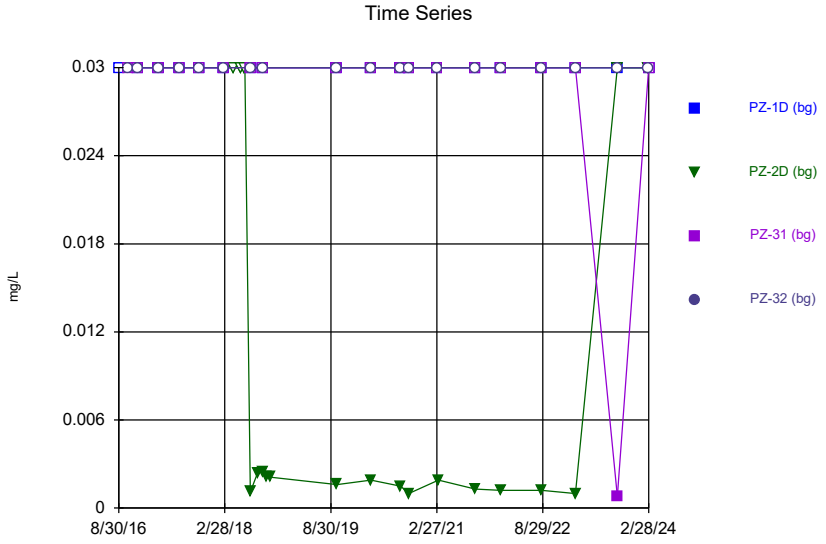
Constituent: Fluoride Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



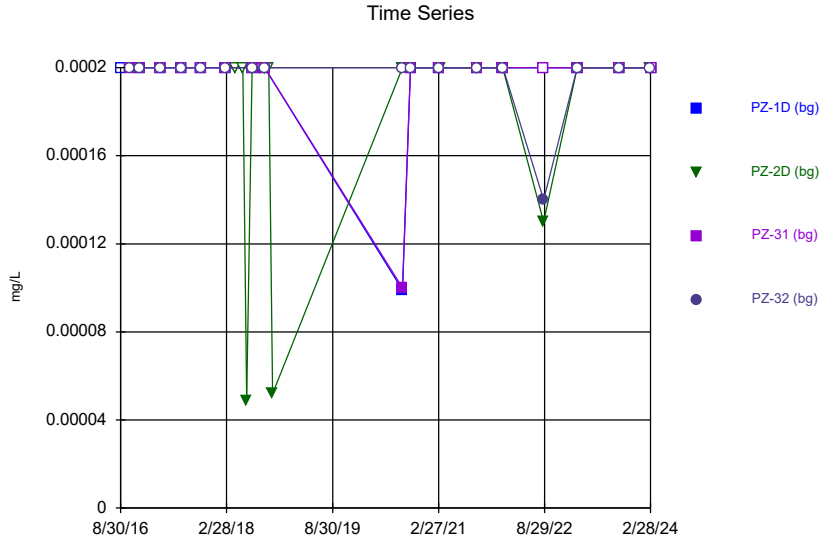
Constituent: Lead Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

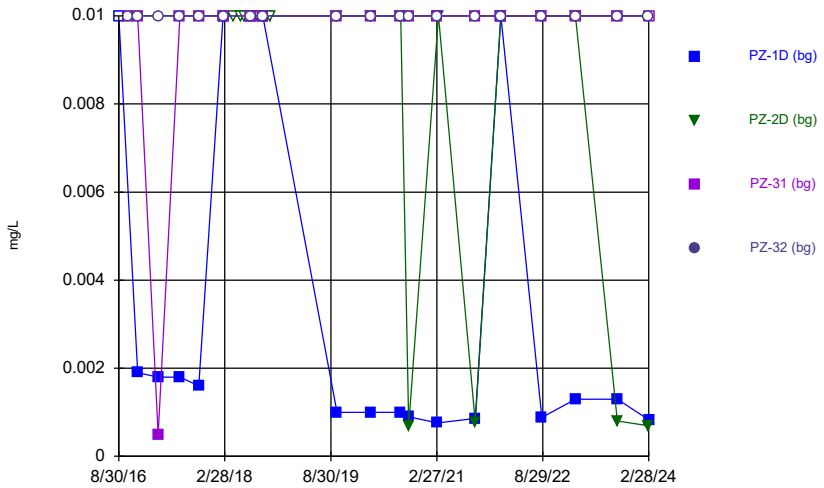
Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.



Constituent: Mercury Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

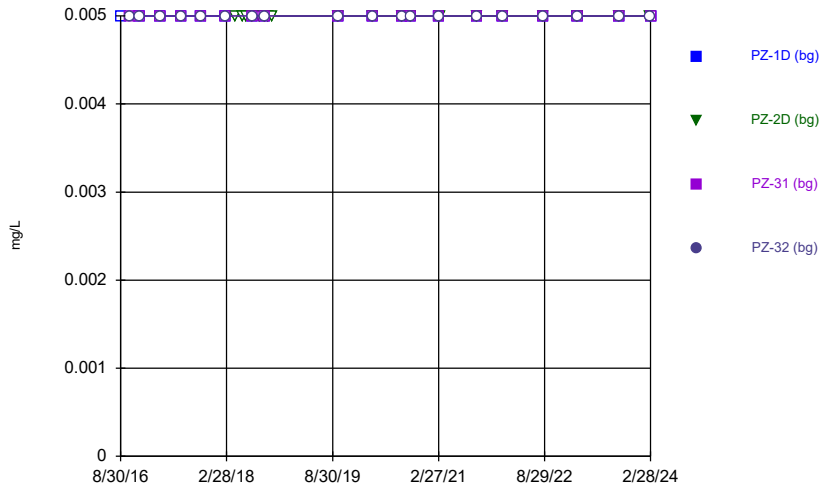
Time Series



Constituent: Molybdenum Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

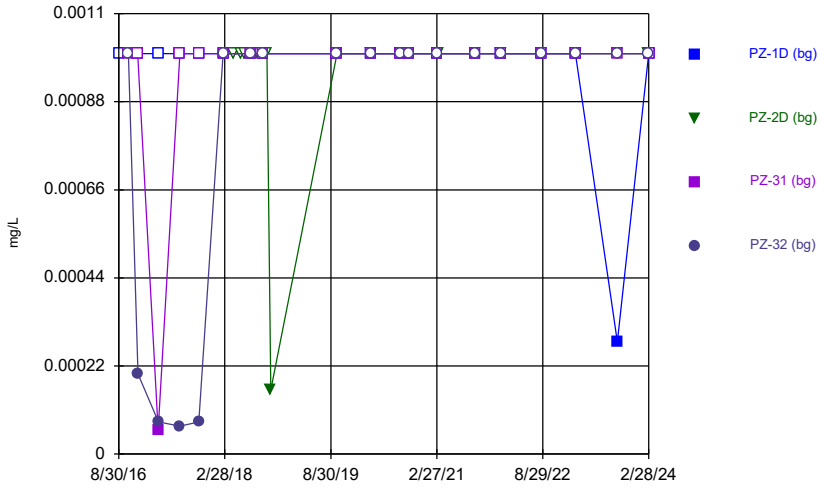
Time Series



Constituent: Selenium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/11/2024 11:49 AM View: Appendix IV - UTLs
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



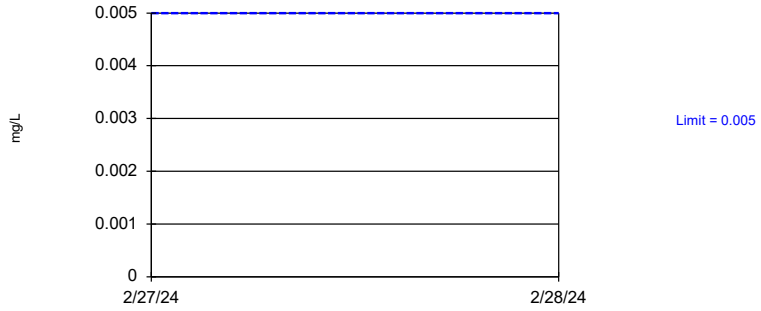
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 55.26% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Antimony Analysis Run 4/14/2024 4:46 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



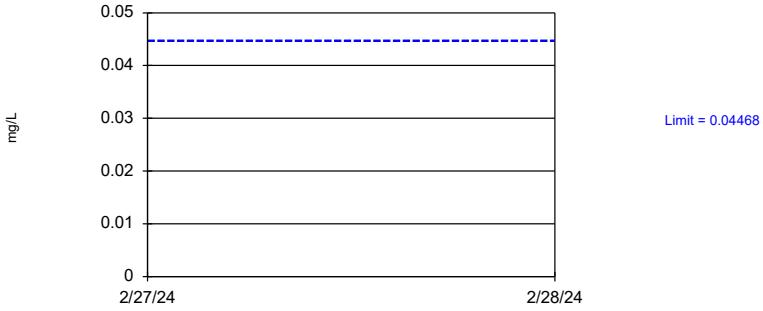
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 68 background values. 88.24% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Arsenic Analysis Run 4/14/2024 4:46 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Parametric



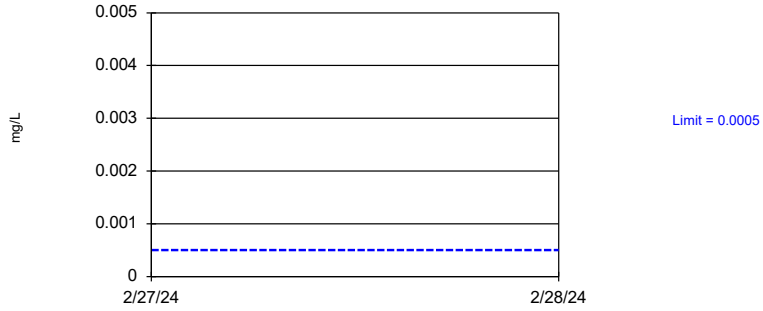
95% coverage. Background Data Summary (based on natural log transformation): Mean=-4.445, Std. Dev.=0.6785, n=76, 1.316% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9619, critical = 0.957. Report alpha = 0.05.

Constituent: Barium Analysis Run 4/14/2024 4:46 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



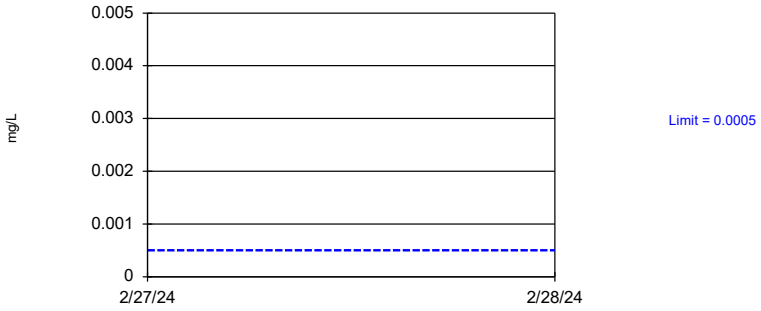
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 60 background values. 96.67% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Beryllium Analysis Run 4/14/2024 4:46 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



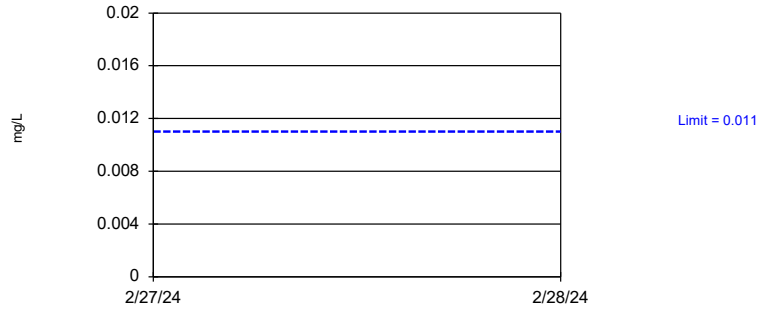
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Cadmium Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



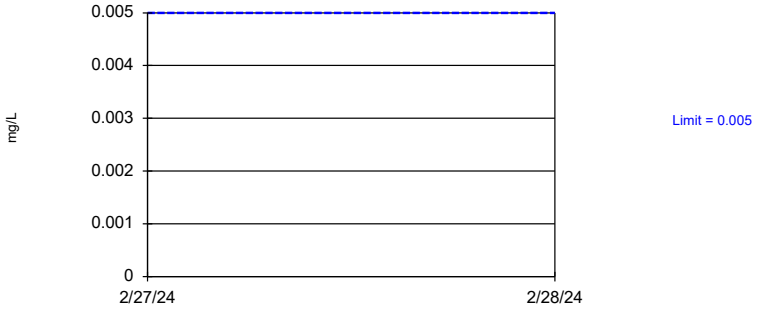
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. 27.63% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Chromium Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



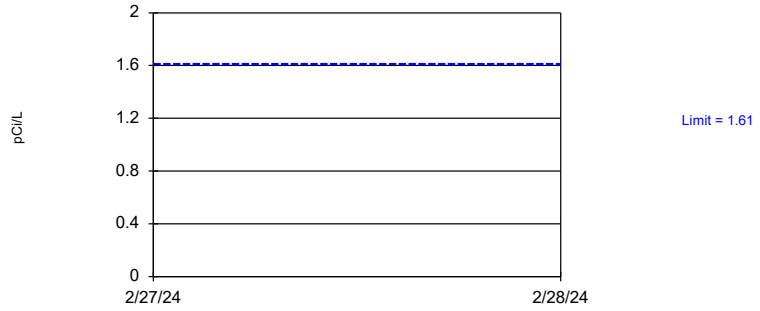
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 96.05% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Cobalt Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Parametric



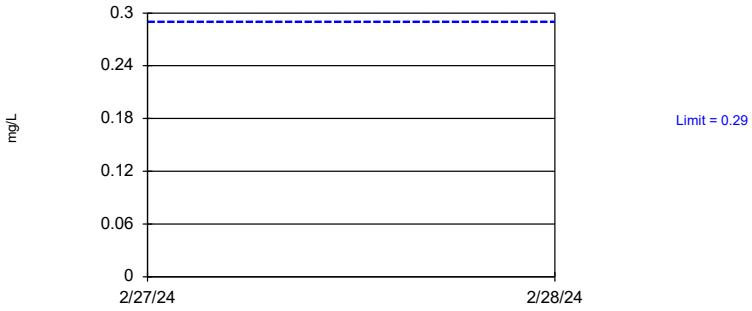
95% coverage. Background Data Summary (based on square root transformation): Mean=0.7166, Std. Dev.=0.2796, n=74. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9829, critical = 0.956. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



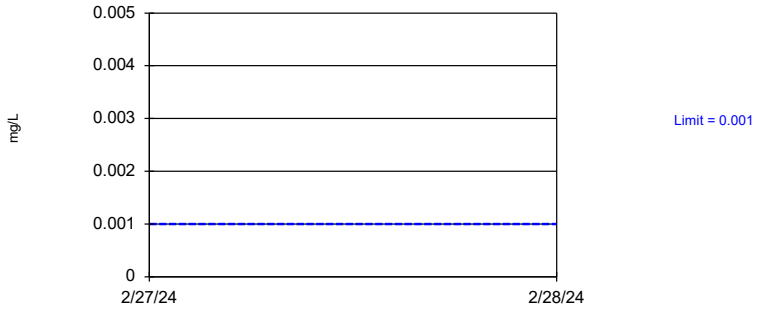
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 45% NDs. 94.34% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.01652.

Constituent: Fluoride Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



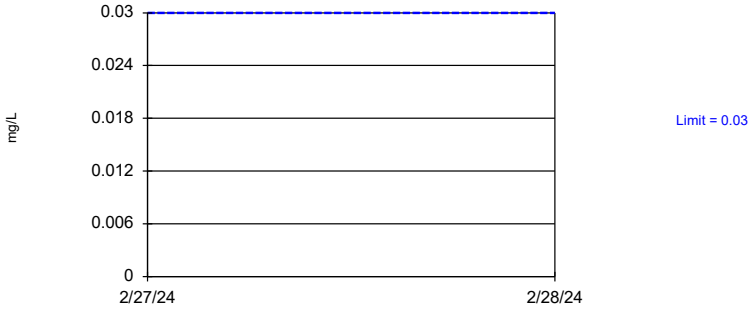
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 82.89% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Lead Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



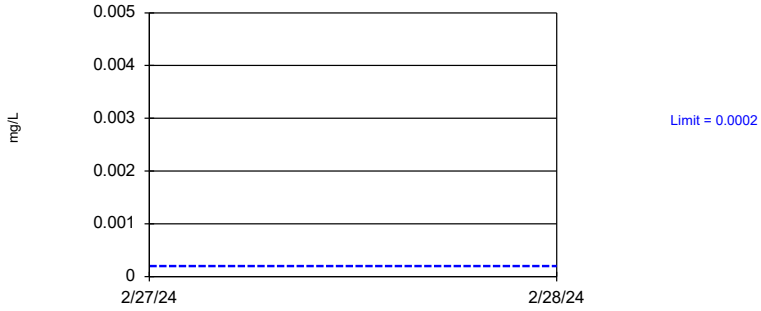
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 80.26% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Lithium Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



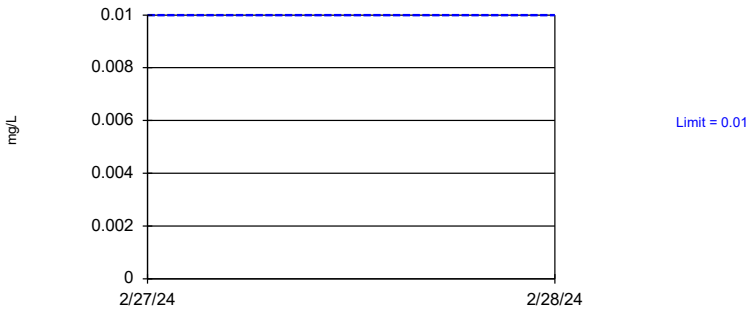
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 68 background values. 91.18% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Mercury Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



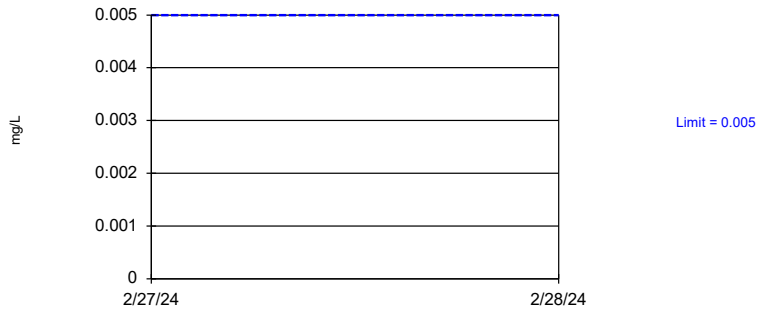
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 75% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Molybdenum Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



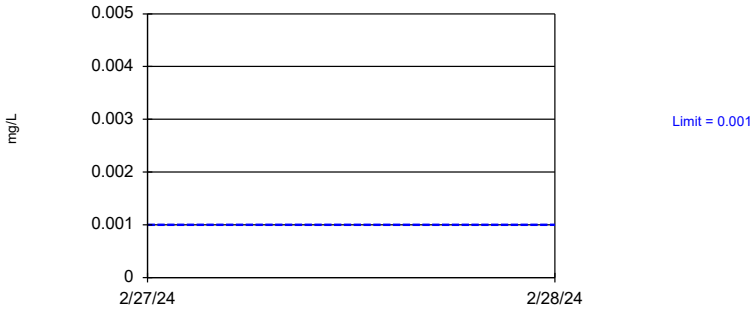
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Selenium Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.16b Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 90.79% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Thallium Analysis Run 4/14/2024 4:47 PM View: Appendix IV - UTLs
Plant Mitchell Data: Mitchell Ash Pond CCR

FIGURE G.

PLANT MITCHELL ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0042	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.045	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.005	0.006
Combined Radium, Total (pCi/L)	5		1.61	5
Fluoride, Total (mg/L)	4		0.29	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals Summary Table - All Results (No Significant)

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 7/16/2024, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-14	0.003	0.0004	0.006	No	19	0.002863	0.0005965	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-15	0.003	0.001	0.006	No	19	0.002769	0.0006934	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-16	0.003	0.00037	0.006	No	19	0.002862	0.0006034	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-17	0.003	0.00094	0.006	No	19	0.002519	0.0009597	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-18	0.004	0.0018	0.006	No	19	0.002905	0.000518	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-19	0.003	0.00044	0.006	No	19	0.002865	0.0005873	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-23A	0.003	0.0017	0.006	No	19	0.002794	0.000656	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-33	0.003	0.00082	0.006	No	19	0.002747	0.000762	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-7D	0.003	0.00089	0.006	No	19	0.002469	0.001063	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-14	0.005	0.00083	0.01	No	17	0.004755	0.001011	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-15	0.005	0.0011	0.01	No	17	0.00427	0.001628	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-17	0.005	0.00072	0.01	No	17	0.004242	0.001687	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-19	0.005	0.0007	0.01	No	17	0.004747	0.001043	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-23A	0.005	0.00036	0.01	No	17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-25	0.005	0.0017	0.01	No	17	0.004061	0.001757	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-33	0.005	0.00094	0.01	No	17	0.004508	0.001389	88.24	None	No	0.01	NP (NDs)
Barium (mg/L)	PZ-14	0.02779	0.01547	2	No	19	0.02278	0.01297	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	PZ-15	0.0617	0.048	2	No	19	0.058	0.01421	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-16	0.046	0.034	2	No	19	0.04168	0.01244	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-17	0.07712	0.06639	2	No	19	0.07175	0.009158	0	None	No	0.01	Param.
Barium (mg/L)	PZ-18	0.029	0.023	2	No	19	0.029	0.01219	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-19	0.05757	0.05211	2	No	19	0.05484	0.00466	0	None	No	0.01	Param.
Barium (mg/L)	PZ-23A	0.04714	0.03637	2	No	19	0.04243	0.01015	0	None	ln(x)	0.01	Param.
Barium (mg/L)	PZ-25	0.11	0.1	2	No	19	0.1064	0.008393	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-33	0.0753	0.04	2	No	18	0.05683	0.01597	0	None	No	0.01	NP (normality)
Barium (mg/L)	PZ-57	0.14	0.052	2	No	5	0.0762	0.03599	0	None	No	0.031	NP (normality)
Barium (mg/L)	PZ-7D	0.0097	0.006	2	No	19	0.007947	0.002252	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-23A	0.0005	0.0002	0.005	No	15	0.00046	0.0001056	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-33	0.0005	0.0001	0.005	No	15	0.0004733	0.0001033	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-14	0.005	0.0012	0.1	No	19	0.003271	0.001887	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-16	0.005	0.0011	0.1	No	19	0.003122	0.002043	52.63	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-18	0.005	0.00056	0.1	No	19	0.004766	0.001019	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-19	0.005	0.00073	0.1	No	19	0.004775	0.0009796	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-23A	0.0044	0.0015	0.1	No	19	0.003263	0.003084	15.79	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-33	0.005	0.0017	0.1	No	19	0.004826	0.0007571	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-57	0.005	0.0013	0.1	No	5	0.0039	0.001649	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	PZ-7D	0.00198	0.0008103	0.1	No	19	0.004068	0.003748	26.32	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	PZ-14	0.005	0.002	0.006	No	19	0.004595	0.001247	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-15	0.005	0.0012	0.006	No	19	0.003842	0.001997	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-16	0.005	0.0005	0.006	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-17	0.005	0.0006	0.006	No	19	0.003612	0.002104	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-18	0.005	0.0011	0.006	No	19	0.004795	0.0008947	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-19	0.005	0.0012	0.006	No	19	0.004584	0.001246	89.47	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-23A	0.005	0.00067	0.006	No	19	0.003834	0.002007	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-25	0.0017	0.001	0.006	No	19	0.001545	0.0009209	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-33	0.005	0.0008	0.006	No	19	0.003833	0.001911	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-57	0.00508	0.0001122	0.006	No	5	0.003202	0.002175	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-14	0.8519	0.3236	5	No	19	0.643	0.5279	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-15	1.006	0.712	5	No	19	0.8855	0.3064	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-16	0.8052	0.424	5	No	19	0.6146	0.3255	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-17	1.087	0.5705	5	No	18	0.8286	0.4266	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-18	1.077	0.4547	5	No	17	0.766	0.4968	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-19	1.257	0.7336	5	No	19	0.9953	0.4469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-23A	1.104	0.6305	5	No	19	0.8671	0.404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-25	1.131	0.7177	5	No	19	0.9243	0.3528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-33	0.9571	0.563	5	No	19	0.7601	0.3365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-57	1.13	0.193	5	No	5	0.5824	0.3561	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-7D	0.6529	0.2875	5	No	19	0.4702	0.3121	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-14	0.11	0.07	4	No	20	0.09035	0.02348	65	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results (No Significant)

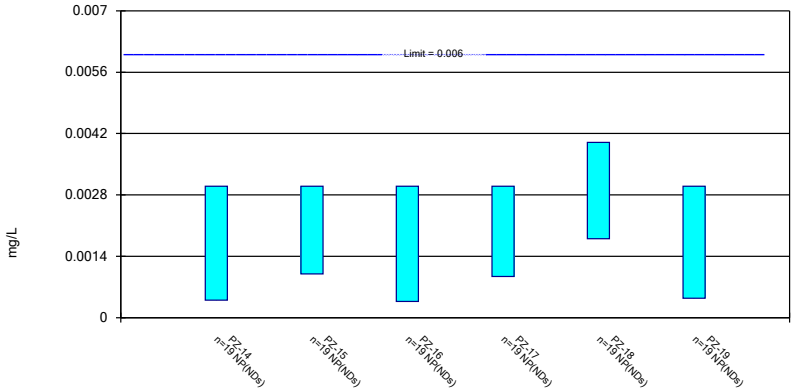
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 7/16/2024, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	PZ-15	0.1086	0.06633	4	No	20	0.1008	0.04404	30	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	PZ-16	0.1	0.053	4	No	20	0.0837	0.02381	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-17	0.1151	0.05899	4	No	20	0.1112	0.06064	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-18	0.12	0.086	4	No	20	0.09955	0.03199	60	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-19	0.1264	0.07366	4	No	20	0.1097	0.07127	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-23A	0.08906	0.05632	4	No	20	0.0951	0.05401	35	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	PZ-25	0.2264	0.1476	4	No	20	0.187	0.06944	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-33	0.1012	0.05609	4	No	20	0.1008	0.03973	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	PZ-57	0.08834	0.05486	4	No	5	0.0716	0.00999	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-7D	0.1	0.056	4	No	20	0.0876	0.02979	65	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-15	0.001	0.00005	0.015	No	19	0.00095	0.0002179	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-16	0.001	0.000081	0.015	No	19	0.0009516	0.0002108	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-18	0.001	0.00043	0.015	No	19	0.0009196	0.0002494	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-19	0.001	0.000042	0.015	No	19	0.0009496	0.0002198	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-23A	0.001	0.00015	0.015	No	19	0.0008555	0.0003433	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-33	0.001	0.00009	0.015	No	19	0.0009019	0.0002938	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-7D	0.001	0.000041	0.015	No	19	0.0009495	0.00022	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-14	0.03	0.003	0.04	No	19	0.02858	0.006194	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-15	0.03	0.0012	0.04	No	19	0.01034	0.01372	31.58	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-17	0.003	0.002	0.04	No	19	0.006595	0.01042	15.79	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-18	0.0033	0.0025	0.04	No	19	0.005211	0.007006	10.53	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-19	0.01419	0.01086	0.04	No	19	0.01253	0.002841	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-23A	0.03	0.001	0.04	No	19	0.02084	0.01386	68.42	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-25	0.006831	0.005714	0.04	No	19	0.006216	0.001037	0	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-57	0.03	0.00082	0.04	No	5	0.007002	0.01286	20	None	No	0.031	NP (normality)
Lithium (mg/L)	PZ-7D	0.0037	0.0023	0.04	No	19	0.009311	0.02802	5.263	None	No	0.01	NP (normality)
Mercury (mg/L)	PZ-14	0.0002	0.00015	0.002	No	17	0.0001894	0.00003307	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-15	0.0002	0.000097	0.002	No	17	0.0001939	0.00002498	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-16	0.0002	0.000068	0.002	No	17	0.0001922	0.00003201	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-17	0.0002	0.000086	0.002	No	17	0.0001933	0.00002765	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-18	0.0002	0.000057	0.002	No	17	0.0001916	0.00003468	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-19	0.0002	0.0001	0.002	No	17	0.000185	0.00004345	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-23A	0.0002	0.00017	0.002	No	17	0.0001918	0.00002721	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-25	0.0002	0.000053	0.002	No	17	0.0001914	0.00003565	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-33	0.0002	0.00011	0.002	No	17	0.0001761	0.00005496	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	PZ-7D	0.0002	0.00006	0.002	No	17	0.0001831	0.00004767	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-14	0.01	0.0005	0.1	No	19	0.0095	0.002179	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-15	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-16	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-17	0.01	0.0004	0.1	No	19	0.009495	0.002202	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-19	0.0024	0.0019	0.1	No	19	0.002263	0.0007143	5.263	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-23A	0.01	0.0011	0.1	No	19	0.009037	0.002886	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-25	0.01	0.001	0.1	No	19	0.009526	0.002065	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-57	0.01	0.00085	0.1	No	5	0.00817	0.004092	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	PZ-14	0.005	0.0015	0.05	No	19	0.004616	0.001152	89.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-15	0.005	0.0018	0.05	No	19	0.004832	0.0007341	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-19	0.01	0.0024	0.05	No	19	0.005626	0.003531	36.84	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-23A	0.01	0.0018	0.05	No	19	0.005084	0.003876	36.84	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-7D	0.005	0.0017	0.05	No	19	0.003626	0.001657	57.89	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-14	0.001	0.00006	0.002	No	19	0.0009505	0.0002157	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-15	0.001	0.00022	0.002	No	19	0.0007479	0.000382	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-16	0.001	0.0002	0.002	No	19	0.000737	0.0003989	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-17	0.001	0.00024	0.002	No	19	0.0006279	0.0003679	47.37	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-18	0.001	0.000071	0.002	No	19	0.0008506	0.0003546	84.21	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-19	0.0006483	0.0004822	0.002	No	19	0.0005653	0.0001418	5.263	None	No	0.01	Param.
Thallium (mg/L)	PZ-23A	0.001	0.00017	0.002	No	19	0.0006168	0.0004168	52.63	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-25	0.001	0.00037	0.002	No	19	0.0006763	0.0003035	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	PZ-33	0.001	0.00015	0.002	No	19	0.00077	0.0003958	73.68	None	No	0.01	NP (NDs)
Thallium (mg/L)	PZ-7D	0.001	0.0002	0.002	No	19	0.0007665	0.0004022	73.68	None	No	0.01	NP (NDs)

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

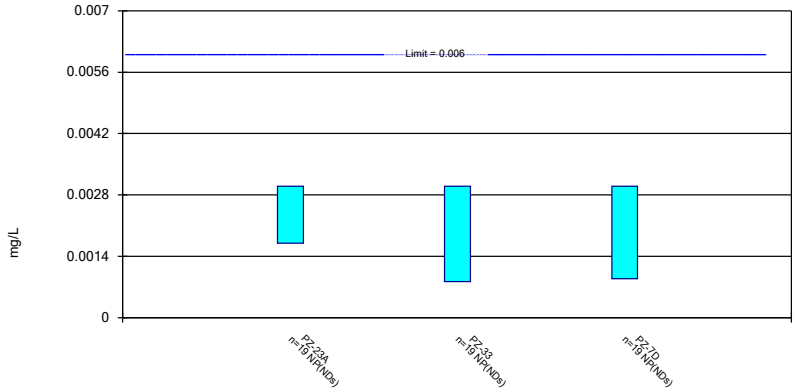


Constituent: Antimony Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

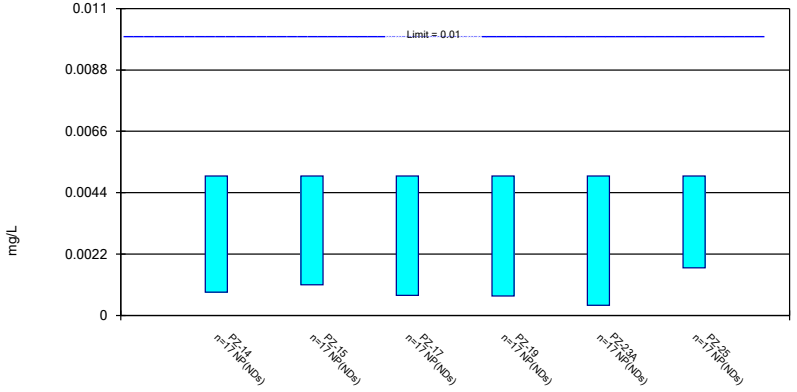


Constituent: Antimony Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

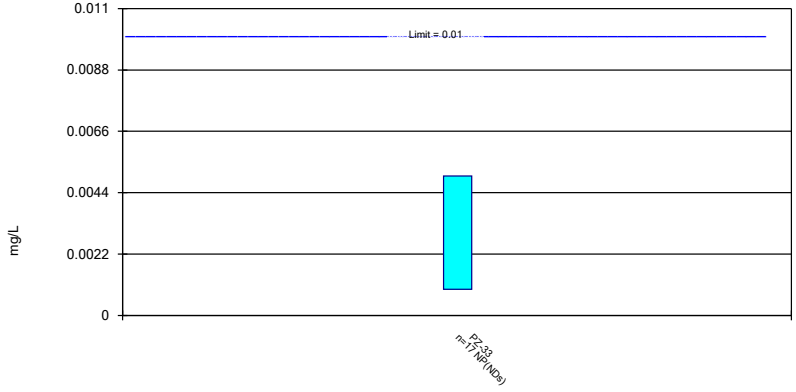


Constituent: Arsenic Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

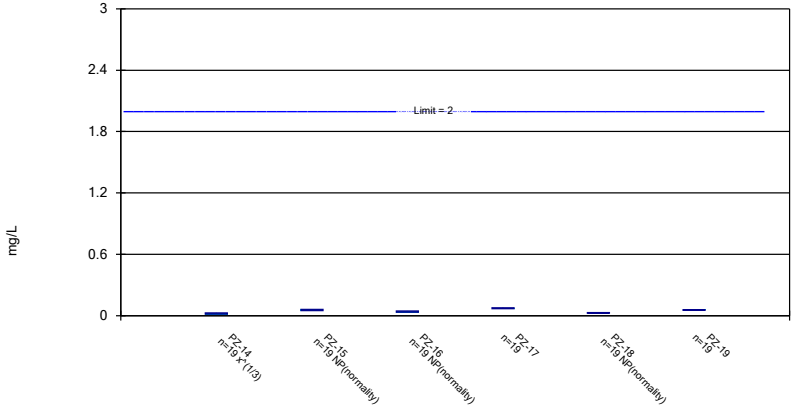


Constituent: Arsenic Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

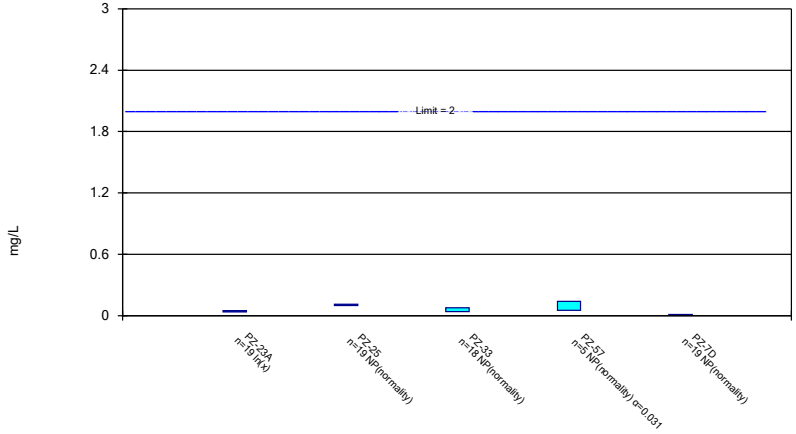


Constituent: Barium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

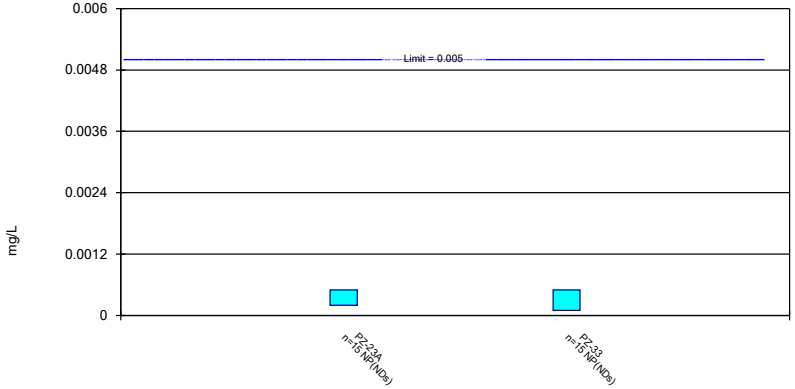


Constituent: Barium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

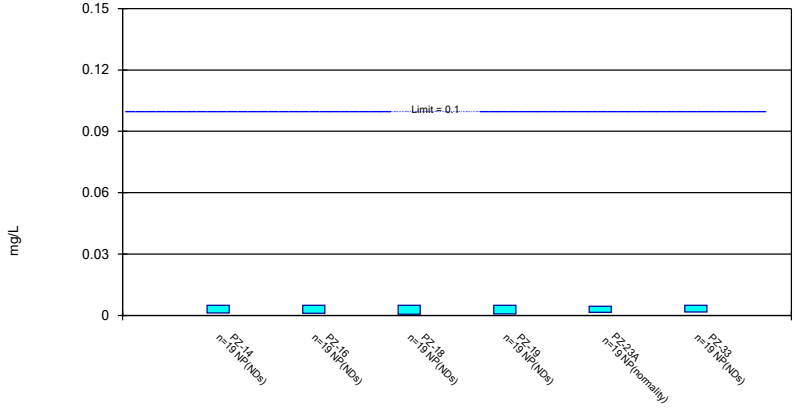


Constituent: Cadmium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

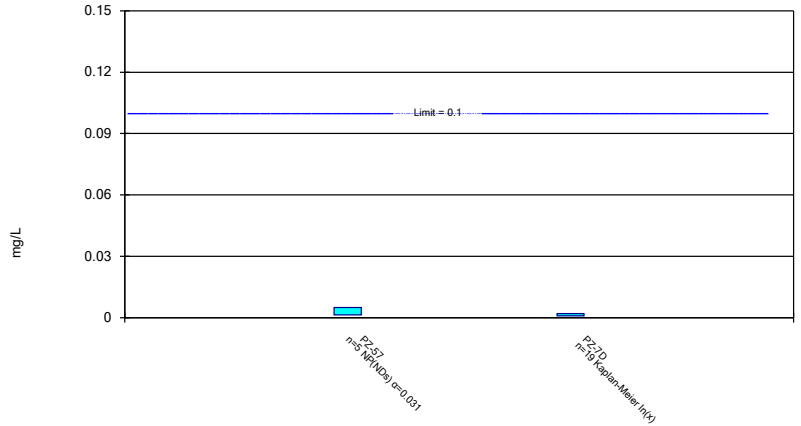


Constituent: Chromium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

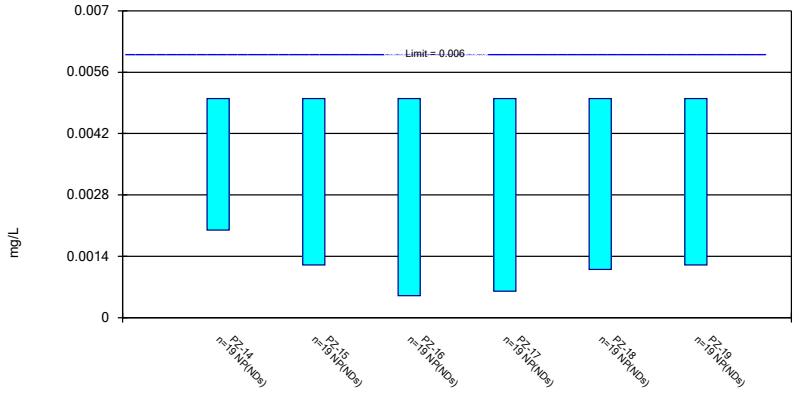


Constituent: Chromium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

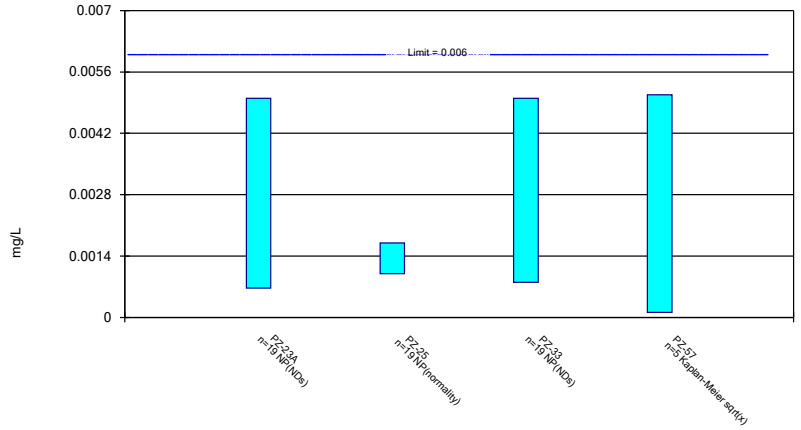


Constituent: Cobalt Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

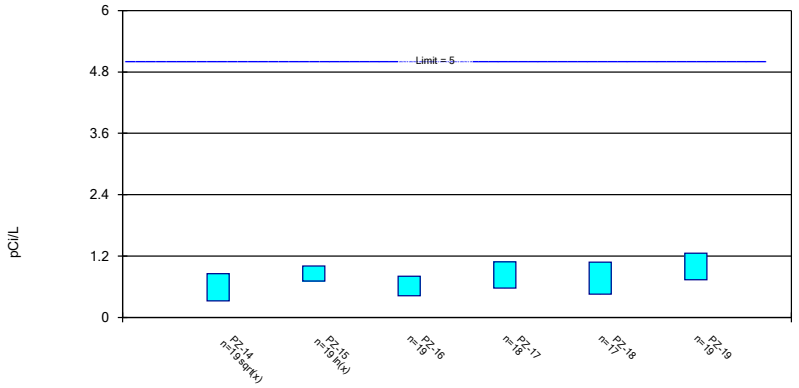


Constituent: Cobalt Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

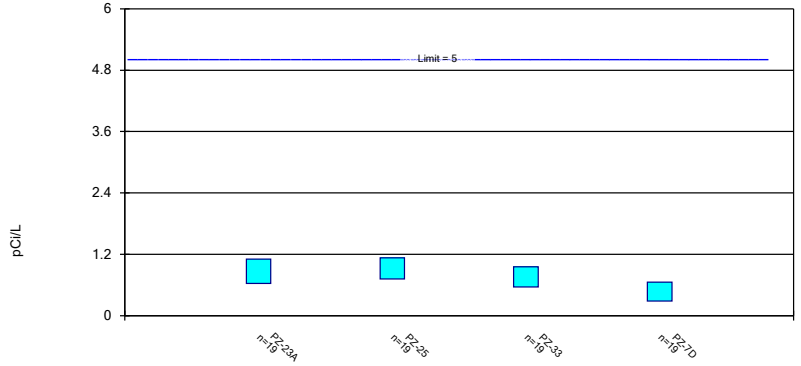


Constituent: Combined Radium 226 + 228 Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confiden
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

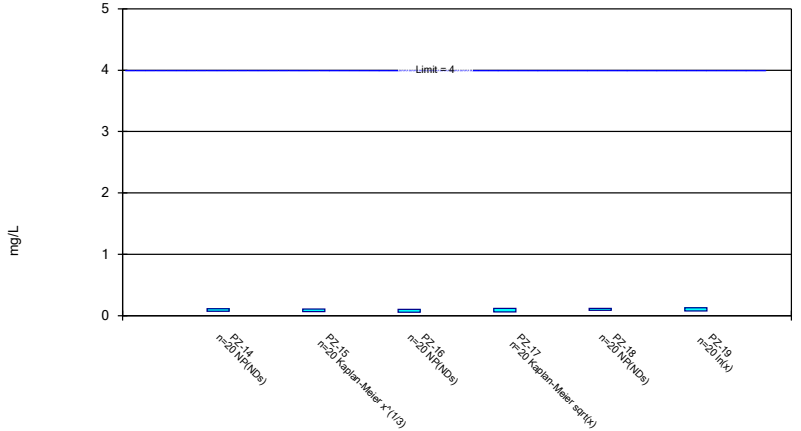


Constituent: Combined Radium 226 + 228 Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confiden
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

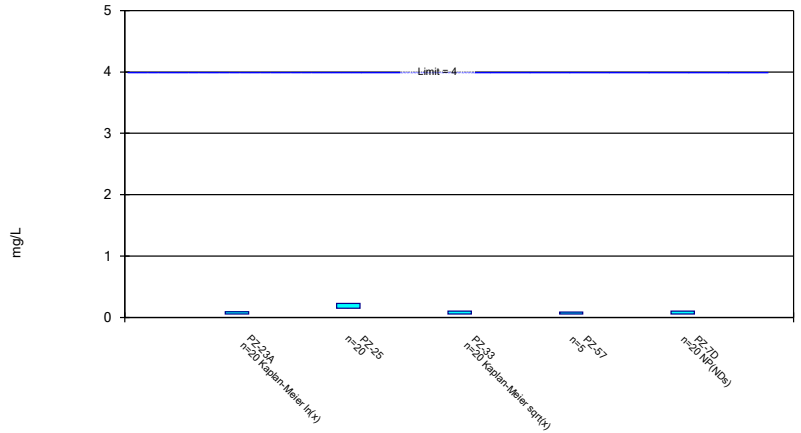


Constituent: Fluoride Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

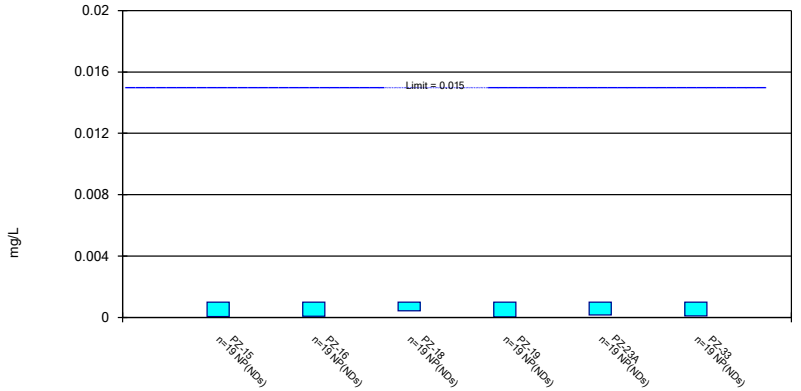


Constituent: Fluoride Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

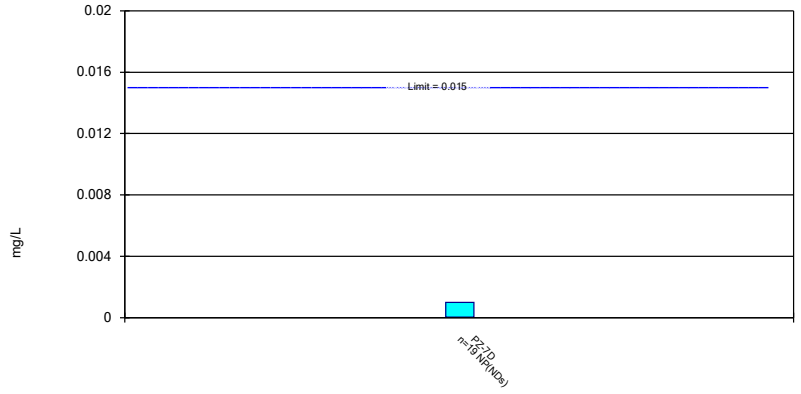


Constituent: Lead Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

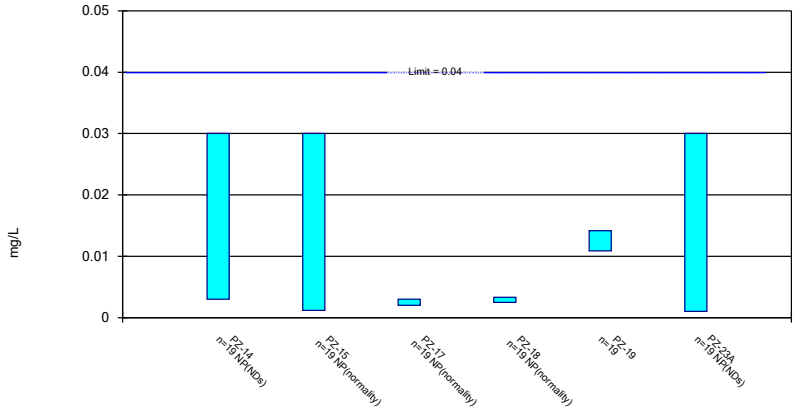


Constituent: Lead Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

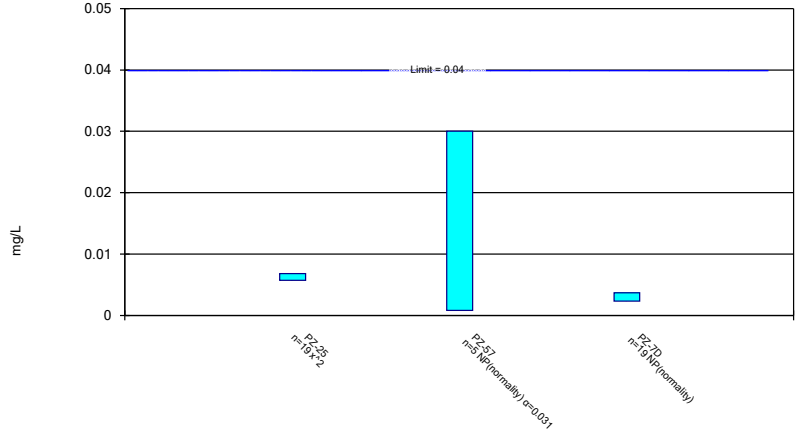


Constituent: Lithium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

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.

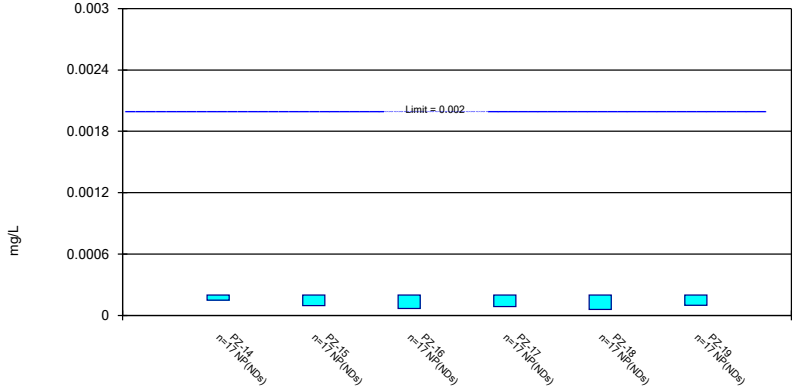


Constituent: Lithium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

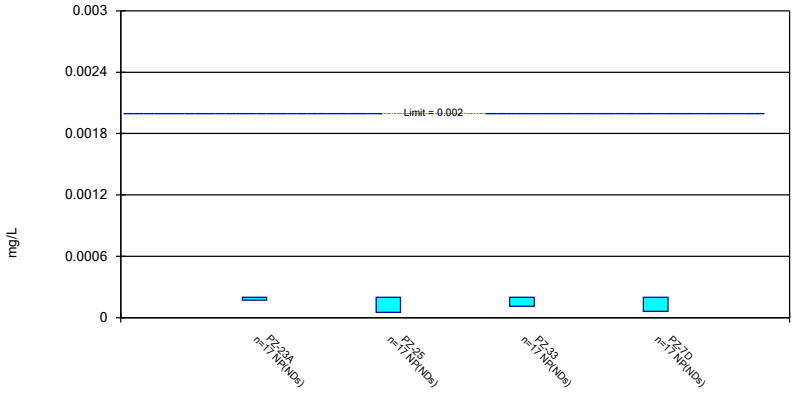


Constituent: Mercury Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

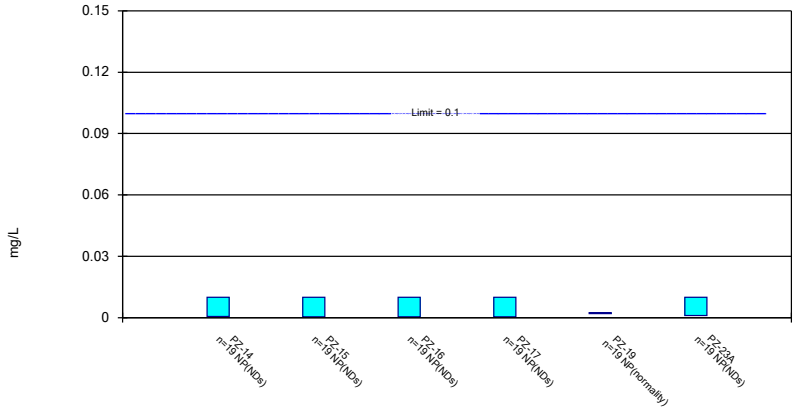


Constituent: Mercury Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

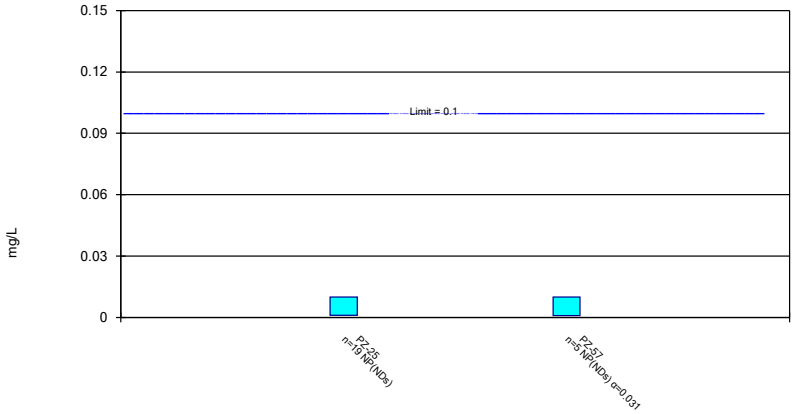


Constituent: Molybdenum Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

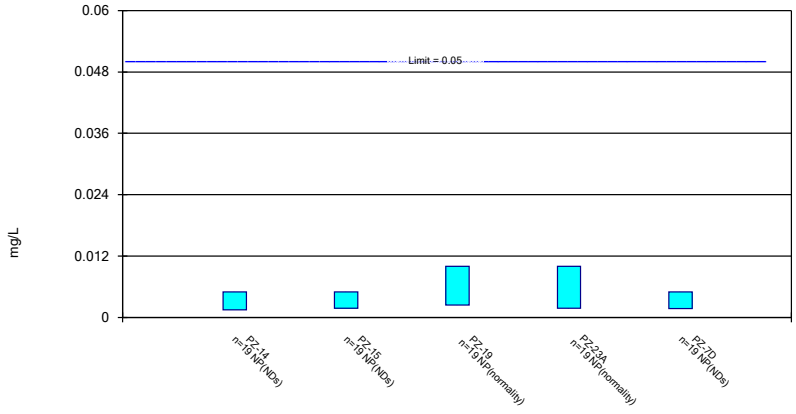


Constituent: Molybdenum Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

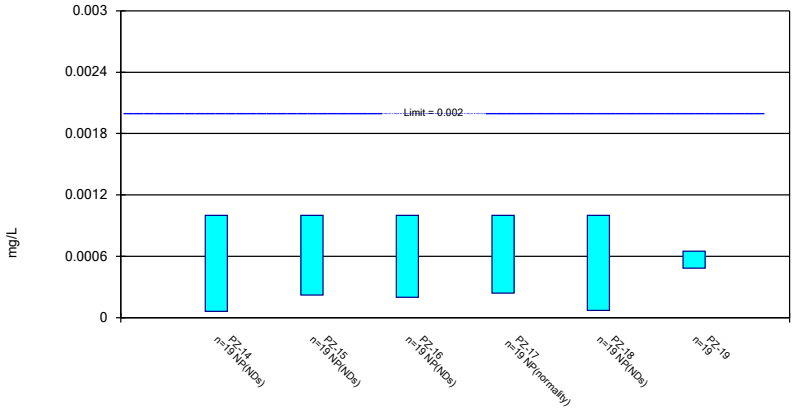
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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.

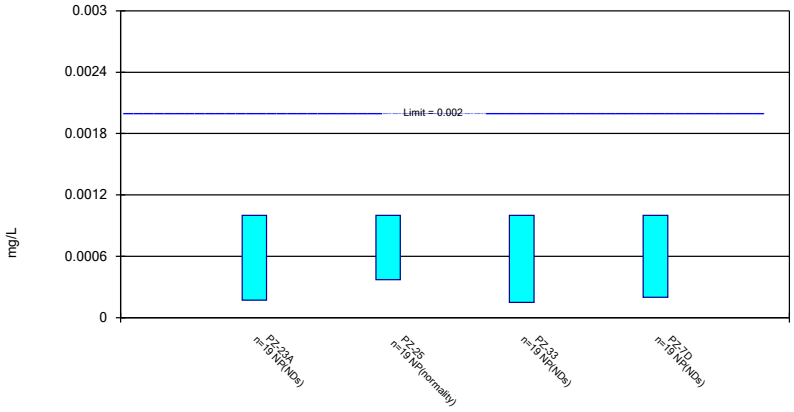


Constituent: Thallium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

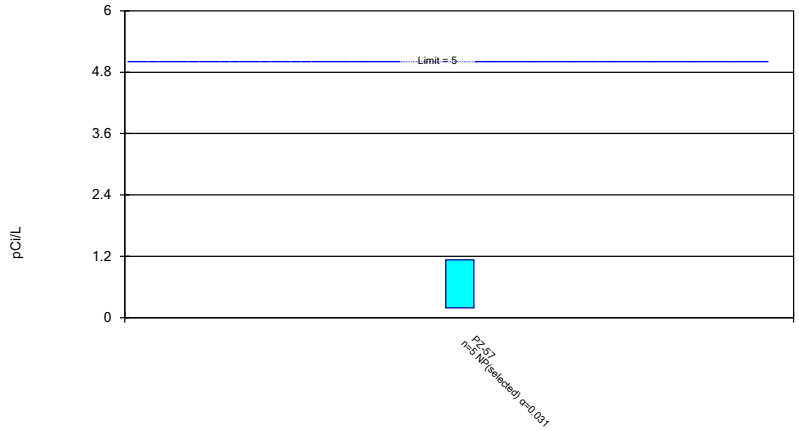


Constituent: Thallium Analysis Run 7/16/2024 3:35 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confiden

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.003					
9/1/2016		0.001 (J)				
9/6/2016			<0.003			
9/7/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
12/8/2016				<0.003	<0.003	<0.003
3/21/2017	0.0004 (J)					
3/22/2017		<0.003	<0.003	<0.003	<0.003	
3/23/2017						<0.003
7/11/2017	<0.003		<0.003			
7/12/2017		<0.003		<0.003	<0.003	<0.003
10/18/2017	<0.003	<0.003	<0.003	<0.003	<0.003	
10/19/2017						<0.003
2/20/2018	<0.003					
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003
7/11/2018	<0.003					
7/12/2018		<0.003	<0.003			<0.003
8/15/2018					<0.003	
8/16/2018				<0.003		
9/12/2018	<0.003					
9/13/2018		<0.003	<0.003		<0.003	
9/14/2018				<0.003		<0.003
10/2/2019	<0.003	<0.003	<0.003	<0.003		
10/3/2019					<0.003	0.00044 (X)
3/25/2020	<0.003			0.00094 (J)		
3/26/2020		<0.003	<0.003		0.0018 (J)	<0.003
8/26/2020	<0.003	0.00062 (J)	0.00037 (J)	0.00061 (J)		<0.003
8/27/2020					<0.003	
10/6/2020	<0.003		<0.003			
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003
3/3/2021	<0.003					<0.003
3/4/2021		<0.003	<0.003	0.00055 (J)	<0.003	
9/15/2021	<0.003	<0.003	<0.003			
9/16/2021				<0.003	<0.003	<0.003
1/26/2022	<0.003	<0.003	<0.003			
1/27/2022				<0.003	<0.003	<0.003
8/25/2022	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/14/2023	<0.003					
2/15/2023		<0.003	<0.003		<0.003	<0.003
2/16/2023				<0.003		
9/19/2023			<0.003			
9/20/2023	<0.003	<0.003		<0.003	0.004	<0.003
2/28/2024		<0.003				
2/29/2024	<0.003		<0.003	0.00076 (J)	<0.003	<0.003
Mean	0.002863	0.002769	0.002862	0.002519	0.002905	0.002865
Std. Dev.	0.0005965	0.0006934	0.0006034	0.0009597	0.000518	0.0005873
Upper Lim.	0.003	0.003	0.003	0.003	0.004	0.003
Lower Lim.	0.0004	0.001	0.00037	0.00094	0.0018	0.00044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33	PZ-7D
8/31/2016	<0.003		
9/1/2016			<0.003
12/7/2016	<0.003		<0.003
12/8/2016		<0.003	
3/21/2017	<0.003		
3/22/2017			<0.003
3/23/2017		<0.003	
7/11/2017	<0.003		
7/12/2017		<0.003	<0.003
10/18/2017	<0.003		
10/19/2017		<0.003	<0.003
2/20/2018	<0.003		
2/21/2018		<0.003	<0.003
7/11/2018	<0.003		
7/12/2018		<0.003	<0.003
9/13/2018	<0.003		<0.003
9/14/2018		<0.003	
10/4/2018		<0.003	
9/10/2019	<0.003		
10/3/2019		<0.003	0.00029 (X)
3/25/2020	<0.003		
3/26/2020		<0.003	0.00042 (J)
8/26/2020	0.00038 (J)	<0.003	0.00031 (J)
10/6/2020	<0.003		
10/7/2020		0.00037 (J)	<0.003
3/3/2021	0.0017 (J)		
3/4/2021		<0.003	<0.003
9/15/2021	<0.003		
9/16/2021		<0.003	<0.003
1/26/2022	<0.003		
1/27/2022		<0.003	<0.003
8/24/2022		0.00082 (J)	
8/25/2022	<0.003		<0.003
2/14/2023	<0.003		
2/15/2023			<0.003
2/16/2023		<0.003	
9/20/2023	<0.003		<0.003
9/21/2023		<0.003	
2/28/2024	<0.003		0.00089 (J)
2/29/2024		<0.003	
Mean	0.002794	0.002747	0.002469
Std. Dev.	0.000656	0.000762	0.001063
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.00082	0.00089

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-19	PZ-23A	PZ-25
8/31/2016	<0.005				<0.005	
9/1/2016		<0.005				
9/7/2016			<0.005	<0.005		
9/8/2016						0.0017 (J)
12/7/2016	<0.005	<0.005			<0.005	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.005				<0.005	
3/22/2017		0.0011 (J)	0.0007 (J)			0.001 (J)
3/23/2017				0.0007 (J)		
7/11/2017	<0.005				<0.005	<0.005
7/12/2017		0.0006 (J)	<0.005	<0.005		
10/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005
10/19/2017				<0.005		
2/20/2018	<0.005				<0.005	
2/21/2018		0.00089 (J)	0.00072 (J)	<0.005		0.00071 (J)
7/11/2018	<0.005				<0.005	
7/12/2018		<0.005		<0.005		<0.005
8/16/2018			0.0007 (J)			
9/12/2018	<0.005					
9/13/2018		<0.005			<0.005	<0.005
9/14/2018			<0.005	<0.005		
9/10/2019					0.00036 (X)	
10/2/2019	0.00083 (X)	<0.005	<0.005			0.00063 (X)
10/3/2019				<0.005		
3/25/2020	<0.005		<0.005		<0.005	<0.005
3/26/2020		<0.005		<0.005		
8/26/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/15/2021	<0.005	<0.005			<0.005	<0.005
9/16/2021			<0.005	<0.005		
1/26/2022	<0.005	<0.005			<0.005	<0.005
1/27/2022			<0.005	<0.005		
8/24/2022						<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2023	<0.005				<0.005	
2/15/2023		<0.005		<0.005		<0.005
2/16/2023			<0.005			
9/19/2023						<0.005
9/20/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2024						<0.005
2/28/2024		<0.005			<0.005	
2/29/2024	<0.005		<0.005	<0.005		
Mean	0.004755	0.00427	0.004242	0.004747	0.004727	0.004061
Std. Dev.	0.001011	0.001628	0.001687	0.001043	0.001125	0.001757
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00083	0.0011	0.00072	0.0007	0.00036	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-33
12/8/2016	<0.005
3/23/2017	0.0007 (J)
7/12/2017	<0.005
10/19/2017	<0.005
2/21/2018	0.00094 (J)
7/12/2018	<0.005
9/14/2018	<0.005
10/4/2018	<0.005
10/3/2019	<0.005
3/26/2020	<0.005
8/26/2020	<0.005
9/16/2021	<0.005
1/27/2022	<0.005
8/24/2022	<0.005
2/16/2023	<0.005
9/21/2023	<0.005
2/29/2024	<0.005
Mean	0.004508
Std. Dev.	0.001389
Upper Lim.	0.005
Lower Lim.	0.00094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.0253					
9/1/2016		0.103				
9/6/2016			0.0794			
9/7/2016				0.0823	0.0717	0.067
12/7/2016	0.065	0.0781	0.0689			
12/8/2016				0.0668	0.0513	0.0522
3/21/2017	0.0379					
3/22/2017		0.0589	0.0423	0.0821	0.0273	
3/23/2017						0.0591
7/11/2017	0.036		0.0467			
7/12/2017		0.0613		0.0805	0.0269	0.0604
10/18/2017	0.0247	0.0617	0.0446	0.0776	0.0258	
10/19/2017						0.0542
2/20/2018	0.03					
2/21/2018		0.076	0.046	0.073	0.029	0.058
7/11/2018	0.027					
7/12/2018		0.056	0.043			0.057
8/15/2018					0.027	
8/16/2018				0.081		
9/12/2018	0.022					
9/13/2018		0.048	0.038		0.023	
9/14/2018				0.081		0.058
10/2/2019	0.017	0.049	0.038	0.074		
10/3/2019					0.025	0.057
3/25/2020	0.021			0.077		
3/26/2020		0.048	0.034		0.023	0.052
8/26/2020	0.016	0.053	0.036	0.077		0.049
8/27/2020					0.023	
10/6/2020	0.016		0.034			
10/7/2020		0.049		0.074	0.023	0.054
3/3/2021	0.017					0.055
3/4/2021		0.047	0.035	0.071	0.023	
9/15/2021	0.014	0.045	0.032			
9/16/2021				0.064	0.022	0.053
1/26/2022	0.016	0.055	0.034			
1/27/2022				0.072	0.025	0.055
8/25/2022	0.011	0.057	0.035	0.061	0.026	0.046
2/14/2023	0.014					
2/15/2023		0.048	0.033		0.026	0.051
2/16/2023				0.059		
9/19/2023			0.038			
9/20/2023	0.01	0.05		0.058	0.022	0.053
2/28/2024		0.058				
2/29/2024	0.013		0.034	0.052	0.031	0.051
Mean	0.02278	0.058	0.04168	0.07175	0.029	0.05484
Std. Dev.	0.01297	0.01421	0.01244	0.009158	0.01219	0.00466
Upper Lim.	0.02779	0.0617	0.046	0.07712	0.029	0.05757
Lower Lim.	0.01547	0.048	0.034	0.06639	0.023	0.05211

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/16/2024 3:37 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-57	PZ-7D
8/31/2016	0.0407				
9/1/2016					0.0117
9/8/2016		0.102			
12/7/2016	0.0581				0.0133
12/8/2016		0.102	0.162 (o)		
3/21/2017	0.0678				
3/22/2017		0.0951			0.0114
3/23/2017			0.0753		
7/11/2017	0.0574	0.102			
7/12/2017			0.0756		0.0097 (J)
10/18/2017	0.0351	0.0997			
10/19/2017			0.0681		0.0091 (J)
2/20/2018	0.05				
2/21/2018		0.11	0.085		0.0086 (J)
7/11/2018	0.051				
7/12/2018		0.1	0.076		0.0093 (J)
9/13/2018	0.038	0.1			0.0078 (J)
9/14/2018			0.071		
10/4/2018			0.072		
9/10/2019	0.029				
10/2/2019		0.11			
10/3/2019			0.057		0.007 (X)
3/25/2020	0.048	0.11			
3/26/2020			0.057		0.0072 (J)
8/26/2020	0.039	0.1	0.051		0.007 (J)
10/6/2020	0.037				
10/7/2020		0.11	0.048		0.0061 (J)
3/3/2021	0.039	0.12			
3/4/2021			0.047		0.0061
9/15/2021	0.037	0.11			
9/16/2021			0.039		0.0062
1/26/2022	0.039	0.11			
1/27/2022			0.043	0.14	0.0068
8/24/2022		0.1	0.038		
8/25/2022	0.036				0.0058
8/26/2022				0.064	
2/14/2023	0.033				
2/15/2023		0.1			0.006
2/16/2023			0.04	0.063	
9/19/2023		0.11			
9/20/2023	0.035				0.0059
9/21/2023			0.041	0.062	
2/27/2024		0.13			
2/28/2024	0.036				0.006
2/29/2024			0.039	0.052	
Mean	0.04243	0.1064	0.05683	0.0762	0.007947
Std. Dev.	0.01015	0.008393	0.01597	0.03599	0.002252
Upper Lim.	0.04714	0.11	0.0753	0.14	0.0097
Lower Lim.	0.03637	0.1	0.04	0.052	0.006

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-33
8/31/2016	0.0002 (J)	
12/7/2016	0.0002 (J)	
12/8/2016		<0.0005
3/21/2017	<0.0005	
3/23/2017		0.0001 (J)
7/11/2017	<0.0005	
7/12/2017		<0.0005
10/18/2017	<0.0005	
10/19/2017		<0.0005
2/20/2018	<0.0005	
2/21/2018		<0.0005
7/11/2018	<0.0005	
7/12/2018		<0.0005
9/13/2018	<0.0005	
9/14/2018		<0.0005
10/4/2018		<0.0005
8/26/2020	<0.0005	<0.0005
9/15/2021	<0.0005	
9/16/2021		<0.0005
1/26/2022	<0.0005	
1/27/2022		<0.0005
8/24/2022		<0.0005
8/25/2022	<0.0005	
2/14/2023	<0.0005	
2/16/2023		<0.0005
9/20/2023	<0.0005	
9/21/2023		<0.0005
2/28/2024	<0.0005	
2/29/2024		<0.0005
Mean	0.00046	0.0004733
Std. Dev.	0.0001056	0.0001033
Upper Lim.	0.0005	0.0005
Lower Lim.	0.0002	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016	<0.005				<0.01	
9/6/2016		<0.005				
9/7/2016			<0.005	<0.005		
12/7/2016	<0.005	<0.005			<0.01	
12/8/2016			<0.005	<0.005		<0.005
3/21/2017	<0.005				0.0009 (J)	
3/22/2017		0.0008 (J)	<0.005			
3/23/2017				<0.005		0.0017 (J)
7/11/2017	<0.005	<0.005			0.0016 (J)	
7/12/2017			<0.005	<0.005		<0.005
10/18/2017	<0.005	<0.005	<0.005		0.0019 (J)	
10/19/2017				<0.005		<0.005
2/20/2018	<0.005				<0.01	
2/21/2018		<0.005	<0.005	<0.005		<0.005
7/11/2018	<0.005				0.0021 (J)	
7/12/2018		<0.005		<0.005		<0.005
8/15/2018			<0.005			
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		0.0022 (J)	
9/14/2018				<0.005		<0.005
10/4/2018						<0.005
9/10/2019					0.0044 (X)	
10/2/2019	<0.005	0.00044 (X)				
10/3/2019			<0.005	<0.005		<0.005
3/25/2020	0.0013 (J)				0.0012 (J)	
3/26/2020		0.0013 (J)	0.00056 (J)	0.00073 (J)		<0.005
8/26/2020	0.0011 (J)	0.00087 (J)		<0.005	0.0014 (J)	<0.005
8/27/2020			<0.005			
10/6/2020	0.00098 (J)	0.0011 (J)			0.0015 (J)	
10/7/2020			<0.005	<0.005		<0.005
3/3/2021	0.00097 (J)			<0.005	0.0015 (J)	
3/4/2021		0.0012 (J)	<0.005			<0.005
9/15/2021	0.0014 (J)	0.0011 (J)			0.0019 (J)	
9/16/2021			<0.005	<0.005		<0.005
1/26/2022	0.0012 (J)	0.0013 (J)			0.0028 (J)	
1/27/2022			<0.005	<0.005		<0.005
8/24/2022						<0.005
8/25/2022	0.0014 (J)	0.0012 (J)	<0.005	<0.005	0.0022 (J)	
2/14/2023	0.0018 (J)				0.0024 (J)	
2/15/2023		<0.005	<0.005	<0.005		
2/16/2023						<0.005
9/19/2023		<0.005				
9/20/2023	0.002 (J)		<0.005	<0.005	0.002 (J)	
9/21/2023						<0.005
2/28/2024					0.002 (J)	
2/29/2024	<0.005	<0.005	<0.005	<0.005		<0.005
Mean	0.003271	0.003122	0.004766	0.004775	0.003263	0.004826
Std. Dev.	0.001887	0.002043	0.001019	0.0009796	0.003084	0.0007571
Upper Lim.	0.005	0.005	0.005	0.005	0.0044	0.005
Lower Lim.	0.0012	0.0011	0.00056	0.00073	0.0015	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-57	PZ-7D
9/1/2016		<0.01
12/7/2016		0.003 (J)
3/22/2017		0.0005 (J)
7/12/2017		<0.01
10/19/2017		0.0005 (J)
2/21/2018		<0.01
7/12/2018		<0.01
9/13/2018		<0.01
10/3/2019		0.0004 (X)
3/26/2020		0.0016 (J)
8/26/2020		0.0011 (J)
10/7/2020		0.0014 (J)
3/4/2021		0.0024 (J)
9/16/2021		0.0025 (J)
1/27/2022	<0.005	0.0034 (J)
8/25/2022		0.0024 (J)
8/26/2022	<0.005	
2/15/2023		0.0034 (J)
2/16/2023	<0.005	
9/20/2023		0.0022 (J)
9/21/2023	0.0013 (J)	
2/28/2024		0.0025 (J)
2/29/2024	0.0032 (J)	
Mean	0.0039	0.004068
Std. Dev.	0.001649	0.003748
Upper Lim.	0.005	0.00198
Lower Lim.	0.0013	0.0008103

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.005					
9/1/2016		0.0012 (J)				
9/6/2016			0.0005 (J)			
9/7/2016				0.0011 (J)	0.0011 (J)	0.0012 (J)
12/7/2016	0.002 (J)	0.0005 (J)	<0.005			
12/8/2016				0.0006 (J)	<0.005	0.0009 (J)
3/21/2017	<0.005					
3/22/2017		0.0005 (J)	<0.005	0.0006 (J)	<0.005	
3/23/2017						<0.005
7/11/2017	0.0003 (J)		<0.005			
7/12/2017		0.0004 (J)		0.0005 (J)	<0.005	<0.005
10/18/2017	<0.005	0.0004 (J)	<0.005	0.0005 (J)	<0.005	
10/19/2017						<0.005
2/20/2018	<0.005					
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005
7/11/2018	<0.005					
7/12/2018		<0.005	<0.005			<0.005
8/15/2018					<0.005	
8/16/2018				<0.005		
9/12/2018	<0.005					
9/13/2018		<0.005	<0.005		<0.005	
9/14/2018				<0.005		<0.005
10/2/2019	<0.005	<0.005	<0.005	<0.005		
10/3/2019					<0.005	<0.005
3/25/2020	<0.005			0.00032 (J)		
3/26/2020		<0.005	<0.005		<0.005	<0.005
8/26/2020	<0.005	<0.005	<0.005	<0.005		<0.005
8/27/2020					<0.005	
10/6/2020	<0.005		<0.005			
10/7/2020		<0.005		<0.005	<0.005	<0.005
3/3/2021	<0.005					<0.005
3/4/2021		<0.005	<0.005	<0.005	<0.005	
9/15/2021	<0.005	<0.005	<0.005			
9/16/2021				<0.005	<0.005	<0.005
1/26/2022	<0.005	<0.005	<0.005			
1/27/2022				<0.005	<0.005	<0.005
8/25/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/14/2023	<0.005					
2/15/2023		<0.005	<0.005		<0.005	<0.005
2/16/2023				<0.005		
9/19/2023			<0.005			
9/20/2023	<0.005	<0.005		<0.005	<0.005	<0.005
2/28/2024		<0.005				
2/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005
Mean	0.004595	0.003842	0.004763	0.003612	0.004795	0.004584
Std. Dev.	0.001247	0.001997	0.001032	0.002104	0.0008947	0.001246
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.002	0.0012	0.0005	0.0006	0.0011	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-57
8/31/2016	<0.005			
9/8/2016		0.0008 (J)		
12/7/2016	0.0008 (J)			
12/8/2016		<0.01	0.0041 (J)	
3/21/2017	<0.005			
3/22/2017		0.001 (J)		
3/23/2017			0.0008 (J)	
7/11/2017	<0.005	0.001 (J)		
7/12/2017			0.0007 (J)	
10/18/2017	<0.005	0.0011 (J)		
10/19/2017			0.0005 (J)	
2/20/2018	<0.005			
2/21/2018		0.00075 (J)	0.0012 (J)	
7/11/2018	<0.005			
7/12/2018		0.0008 (J)	0.00053 (J)	
9/13/2018	<0.005	0.001 (J)		
9/14/2018			<0.005	
10/4/2018			<0.005	
9/10/2019	<0.005			
10/2/2019		0.0017 (X)		
10/3/2019			<0.005	
3/25/2020	0.0003 (J)	0.0018 (J)		
3/26/2020			<0.005	
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005	
10/6/2020	0.00067 (J)			
10/7/2020		0.0014 (J)	<0.005	
3/3/2021	0.00049 (J)	0.0016 (J)		
3/4/2021			<0.005	
9/15/2021	<0.005	0.002 (J)		
9/16/2021			<0.005	
1/26/2022	<0.005	0.0016 (J)		
1/27/2022			<0.005	0.0043 (J)
8/24/2022		0.0016 (J)	<0.005	
8/25/2022	<0.005			
8/26/2022				0.0012 (J)
2/14/2023	<0.005			
2/15/2023		0.0012 (J)		
2/16/2023			<0.005	0.00051 (J)
9/19/2023		0.0017 (J)		
9/20/2023	<0.005			
9/21/2023			<0.005	<0.005
2/27/2024		0.0017 (J)		
2/28/2024	<0.005			
2/29/2024			<0.005	<0.005
Mean	0.003834	0.001545	0.003833	0.003202
Std. Dev.	0.002007	0.0009209	0.001911	0.002175
Upper Lim.	0.005	0.0017	0.005	0.00508
Lower Lim.	0.00067	0.001	0.0008	0.0001122

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	1.77					
9/1/2016		1.19				
9/6/2016			1.12			
9/7/2016				1.06 (U)	1.51	1.22
12/7/2016	0.672 (U)	1.88	1.37			
12/8/2016				1.3	1.29	1.69
3/21/2017	0.33 (U)					
3/22/2017		0.617 (U)	0.435 (U)	0.566 (U)	0.799 (U)	
3/23/2017						1.07
7/11/2017	0.701 (U)		0.76 (U)			
7/12/2017		0.674 (U)		0.856 (U)	0.4 (U)	0.849 (U)
10/18/2017	0.808 (U)	0.844 (U)	0.847 (U)	0.957	0.613 (U)	
10/19/2017						0.398 (U)
2/20/2018	2.12					
2/21/2018		0.842 (U)	0.373 (U)	1.4	0.736 (U)	1.03 (U)
7/11/2018	0.232 (U)					
7/12/2018		0.552 (U)	0.408 (U)			1.28 (U)
9/12/2018	0.532 (U)					
9/13/2018		0.662 (U)	0.472 (U)		0.708 (U)	
9/14/2018				1.16		0.74 (U)
10/2/2019	0.915 (U)	1 (U)	0.65 (U)	1.34 (U)		
10/3/2019					2.07	1.9
3/25/2020	0.694 (U)			0.385 (U)		
3/26/2020		0.863 (U)	0.522 (U)		1.05	1.66
8/26/2020	0.115 (U)	0.681 (U)	0.499 (U)	1.62		0.703 (U)
10/6/2020	0.265 (U)		1.12 (U)			
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893
3/3/2021	0.328 (U)					0.469 (U)
3/4/2021		0.674 (U)	0.404 (U)	0.734 (U)	0.498 (U)	
9/15/2021	0.872 (U)	0.729 (U)	0.721 (U)			
9/16/2021				0.377 (U)	0.681 (U)	1.4
1/26/2022	0.185 (U)	0.879 (U)	0.117 (U)			
1/27/2022				0.314 (U)	0.418 (U)	0.255 (U)
8/25/2022	0.453 (U)	1.05	0.728 (U)	0.98 (U)	0.0434 (U)	0.937
2/14/2023	0.0857 (U)					
2/15/2023		0.875 (U)	0.137 (U)		0.828	0.652 (U)
2/16/2023				0.129 (U)		
9/19/2023			0.531 (U)			
9/20/2023	0.707 (U)	0.644 (U)		0.684 (U)	0.784 (U)	1.02 (U)
2/28/2024		0.948 (U)				
2/29/2024	0.433 (U)		0.463 (U)	0.621 (U)	0.228 (U)	0.744 (U)
Mean	0.643	0.8855	0.6146	0.8286	0.766	0.9953
Std. Dev.	0.5279	0.3064	0.3255	0.4266	0.4968	0.4469
Upper Lim.	0.8519	1.006	0.8052	1.087	1.077	1.257
Lower Lim.	0.3236	0.712	0.424	0.5705	0.4547	0.7336

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	1.85			
9/1/2016				0.88 (U)
9/8/2016		1.41		
12/7/2016	0.844 (U)			0.179 (U)
12/8/2016		1.39	0.968 (U)	
3/21/2017	0.832 (U)			
3/22/2017		0.852 (U)		0.279 (U)
3/23/2017			0.444 (U)	
7/11/2017	0.824 (U)	1.04		
7/12/2017			0.814 (U)	0.125 (U)
10/18/2017	1.19	0.678 (U)		
10/19/2017			0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			
2/21/2018		0.863 (U)	1.05 (U)	0.504 (U)
7/11/2018	1.29			
7/12/2018		1.42	0.751 (U)	0.188 (U)
9/13/2018	0.765 (U)	0.766 (U)		0.0542 (U)
9/14/2018			1.01 (U)	
10/4/2018			1.05	
9/10/2019	0.575 (U)			
10/2/2019		1.48		
10/3/2019			1.62 (U)	1.37
3/25/2020	1.39	0.91 (U)		
3/26/2020			0.473 (U)	0.43 (U)
8/26/2020	0.774 (U)	0.95 (U)	0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)			
10/7/2020		1.01 (U)	0.442 (U)	0.232 (U)
3/3/2021	1.01 (U)	0.545 (U)		
3/4/2021			1.03 (U)	0.529 (U)
9/15/2021	0.742 (U)	1.07 (U)		
9/16/2021			0.184 (U)	0.382 (U)
1/26/2022	0.76 (U)	0.282 (U)		
1/27/2022			0.259 (U)	0.315 (U)
8/24/2022		0.764 (U)	0.764 (U)	
8/25/2022	0.396 (U)			0.771 (U)
2/14/2023	0.521 (U)			
2/15/2023		0.484 (U)		0.496 (U)
2/16/2023			0.765	
9/19/2023		1.21 (U)		
9/20/2023	0.235 (U)			0.623 (U)
9/21/2023			0.809 (U)	
2/27/2024		0.437 (U)		
2/28/2024	0.261 (U)			0.676 (U)
2/29/2024			0.478 (U)	
Mean	0.8671	0.9243	0.7601	0.4702
Std. Dev.	0.404	0.3528	0.3365	0.3121
Upper Lim.	1.104	1.131	0.9571	0.6529
Lower Lim.	0.6305	0.7177	0.563	0.2875

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	0.13 (J)					
9/1/2016		0.06 (J)				
9/6/2016			0.09 (J)			
9/7/2016				0.03 (J)	0.12 (J)	0.15 (J)
12/7/2016	0.07 (J)	0.09 (J)	0.09 (J)			
12/8/2016				0.18 (J)	0.18 (J)	0.12 (J)
3/21/2017	<0.1					
3/22/2017		0.11 (J)	0.04 (J)	0.09 (J)	0.08 (J)	
3/23/2017						0.14 (J)
7/11/2017	0.05 (J)		0.05 (J)			
7/12/2017		0.23 (J)		0.21 (J)	0.17 (J)	0.07 (J)
10/18/2017	0.11 (J)	0.19 (J)	0.04 (J)	0.24 (J)	0.06 (J)	
10/19/2017						<0.3
2/20/2018	0.04 (J)					
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37
7/11/2018	<0.1					
7/12/2018		<0.1	<0.1			0.17 (J)
8/15/2018					<0.1	
8/16/2018				0.073 (J)		
9/12/2018	<0.1					
9/13/2018		0.15 (J)	<0.1		<0.1	
9/14/2018				<0.1		<0.3
3/27/2019	<0.1		<0.1		<0.1	
3/28/2019		0.1		0.15		0.074
10/2/2019	0.056 (X)	0.075 (X)	0.053 (X)	0.063 (X)		
10/3/2019					0.043 (X)	0.084 (X)
3/25/2020	<0.1			<0.1		
3/26/2020		0.056 (J)	<0.1		<0.1	0.077 (J)
8/26/2020	<0.1	<0.1	<0.1	<0.1		0.062 (J)
8/27/2020					<0.1	
10/6/2020	<0.1		<0.1			
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)
3/3/2021	<0.1					0.058 (J)
3/4/2021		<0.1	<0.1	<0.1	<0.1	
9/15/2021	<0.1	<0.1	<0.1			
9/16/2021				0.052 (J)	<0.1	0.067 (J)
1/26/2022	<0.1	<0.1	<0.1			
1/27/2022				<0.1	<0.1	0.056 (J)
8/25/2022	0.051 (J)	0.074 (J)	0.058 (J)	0.078 (J)	0.052 (J)	0.086 (J)
2/14/2023	<0.1					
2/15/2023		0.064 (J)	0.053 (J)		<0.1	0.086 (J)
2/16/2023				0.077 (J)		
9/19/2023			<0.1			
9/20/2023	<0.1	0.064 (J)		0.073 (J)	<0.1	0.082 (J)
2/28/2024		0.059 (J)				
2/29/2024	<0.1		<0.1	0.068 (J)	<0.1	0.078 (J)
Mean	0.09035	0.1008	0.0837	0.1112	0.09955	0.1097
Std. Dev.	0.02348	0.04404	0.02381	0.06064	0.03199	0.07127
Upper Lim.	0.11	0.1086	0.1	0.1151	0.12	0.1264
Lower Lim.	0.07	0.06633	0.053	0.05899	0.086	0.07366

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-57	PZ-7D
8/31/2016	0.13 (J)				
9/1/2016					<0.1
9/8/2016		0.25 (J)			
12/7/2016	0.13 (J)				0.15 (J)
12/8/2016		0.22 (J)	0.21 (J)		
3/21/2017	0.05 (J)				
3/22/2017		0.16 (J)			0.09 (J)
3/23/2017			0.18 (J)		
7/11/2017	0.05 (J)	0.23 (J)			
7/12/2017			0.06 (J)		0.02 (J)
10/18/2017	<0.1	0.28 (J)			
10/19/2017			<0.1		<0.1
2/20/2018	0.3 (J)				
2/21/2018		0.29 (J)	0.039 (J)		0.045 (J)
7/11/2018	0.077 (J)				
7/12/2018		0.21 (J)	<0.1		<0.1
9/13/2018	<0.1	0.22 (J)			<0.1
9/14/2018			<0.1		
10/4/2018			0.15 (J)		
3/27/2019	<0.1	0.37			
3/28/2019			<0.1		<0.1
9/10/2019	<0.1				
10/2/2019		0.16 (X)			
10/3/2019			0.06 (X)		0.041 (X)
3/25/2020	0.066 (J)	0.13 (J)			
3/26/2020			<0.1		<0.1
8/26/2020	0.057 (J)	0.14	<0.1		<0.1
10/6/2020	0.052 (J)				
10/7/2020		0.13	<0.1		<0.1
3/3/2021	<0.1	0.12			
3/4/2021			<0.1		<0.1
9/15/2021	<0.1	0.14			
9/16/2021			<0.1		<0.1
1/26/2022	<0.1	0.11			
1/27/2022			<0.1	0.057 (J)	<0.1
8/24/2022		0.15	0.092 (J)		
8/25/2022	0.074 (J)				0.056 (J)
8/26/2022				0.083 (J)	
2/14/2023	0.084 (J)				
2/15/2023		0.16			0.05 (J)
2/16/2023			0.082 (J)	0.077 (J)	
9/19/2023		0.14			
9/20/2023	0.062 (J)				<0.1
9/21/2023			0.074 (J)	0.074 (J)	
2/27/2024		0.13			
2/28/2024	0.07 (J)				<0.1
2/29/2024			0.068 (J)	0.067 (J)	
Mean	0.0951	0.187	0.1008	0.0716	0.0876
Std. Dev.	0.05401	0.06944	0.03973	0.00999	0.02979
Upper Lim.	0.08906	0.2264	0.1012	0.08834	0.1
Lower Lim.	0.05632	0.1476	0.05609	0.05486	0.056

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-15	PZ-16	PZ-18	PZ-19	PZ-23A	PZ-33
8/31/2016					<0.001	
9/1/2016	<0.001					
9/6/2016		<0.001				
9/7/2016			<0.001	<0.001		
12/7/2016	<0.001	<0.001			<0.001	
12/8/2016			<0.001	<0.001		<0.001
3/21/2017					<0.001	
3/22/2017	5E-05 (J)	<0.001	<0.001			
3/23/2017				<0.001		9E-05 (J)
7/11/2017		<0.001			<0.001	
7/12/2017	<0.001		<0.001	<0.001		<0.001
10/18/2017	<0.001	<0.001	<0.001		<0.001	
10/19/2017				<0.001		<0.001
2/20/2018					<0.001	
2/21/2018	<0.001	<0.001	0.00043 (J)	<0.001		<0.001
7/11/2018					<0.001	
7/12/2018	<0.001	<0.001		<0.001		<0.001
8/15/2018			<0.001			
9/13/2018	<0.001	<0.001	<0.001		<0.001	
9/14/2018				<0.001		<0.001
10/4/2018						<0.001
9/10/2019					<0.001	
10/2/2019	<0.001	8.1E-05 (X)				
10/3/2019			<0.001	<0.001		4.7E-05 (X)
3/25/2020					0.00015 (J)	
3/26/2020	<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2020	<0.001	<0.001		<0.001	<0.001	<0.001
8/27/2020			<0.001			
10/6/2020		<0.001			4.7E-05 (J)	
10/7/2020	<0.001		4.2E-05 (J)	4.2E-05 (J)		<0.001
3/3/2021				<0.001	5.8E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001			<0.001
9/15/2021	<0.001	<0.001			<0.001	
9/16/2021			<0.001	<0.001		<0.001
1/26/2022	<0.001	<0.001			<0.001	
1/27/2022			<0.001	<0.001		<0.001
8/24/2022						<0.001
8/25/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2023					<0.001	
2/15/2023	<0.001	<0.001	<0.001	<0.001		
2/16/2023						<0.001
9/19/2023		<0.001				
9/20/2023	<0.001		<0.001	<0.001	<0.001	
9/21/2023						<0.001
2/28/2024	<0.001				<0.001	
2/29/2024		<0.001	<0.001	<0.001		<0.001
Mean	0.00095	0.0009516	0.0009196	0.0009496	0.0008555	0.0009019
Std. Dev.	0.0002179	0.0002108	0.0002494	0.0002198	0.0003433	0.0002938
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5E-05	8.1E-05	0.00043	4.2E-05	0.00015	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-7D
9/1/2016	<0.001
12/7/2016	<0.001
3/22/2017	<0.001
7/12/2017	<0.001
10/19/2017	<0.001
2/21/2018	<0.001
7/12/2018	<0.001
9/13/2018	<0.001
10/3/2019	<0.001
3/26/2020	<0.001
8/26/2020	<0.001
10/7/2020	<0.001
3/4/2021	4.1E-05 (J)
9/16/2021	<0.001
1/27/2022	<0.001
8/25/2022	<0.001
2/15/2023	<0.001
9/20/2023	<0.001
2/28/2024	<0.001
Mean	0.0009495
Std. Dev.	0.00022
Upper Lim.	0.001
Lower Lim.	4.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-17	PZ-18	PZ-19	PZ-23A
8/31/2016	<0.03					<0.03
9/1/2016		<0.03				
9/7/2016			<0.03	<0.05	0.0082 (J)	
12/7/2016	0.003 (J)	<0.03				<0.03
12/8/2016			<0.03	<0.05	0.0061 (J)	
3/21/2017	<0.03					<0.03
3/22/2017		0.0011 (J)	0.0021 (J)	0.0029 (J)		
3/23/2017					0.0122 (J)	
7/11/2017	<0.03					<0.03
7/12/2017		<0.03	0.002 (J)	0.0024 (J)	0.013 (J)	
10/18/2017	<0.03	<0.03	0.002 (J)	0.0027 (J)		<0.03
10/19/2017					0.013 (J)	
2/20/2018	<0.03					<0.03
2/21/2018		<0.03	0.0022 (J)	0.0021 (J)	0.0085 (J)	
7/11/2018	<0.03					<0.03
7/12/2018		0.0012 (J)			0.013 (J)	
8/15/2018				0.0027 (J)		
8/16/2018			0.0027 (J)			
9/12/2018	<0.03					
9/13/2018		0.0013 (J)		0.0029 (J)		<0.03
9/14/2018			0.0025 (J)		0.018 (J)	
9/10/2019						<0.03
10/2/2019	<0.03	0.0013 (X)	0.0024 (X)			
10/3/2019				0.0027 (X)	0.016 (X)	
3/25/2020	<0.03		0.003 (J)			0.0011 (J)
3/26/2020		0.0014 (J)		0.0027 (J)	0.013 (J)	
8/26/2020	<0.03	0.0013 (J)	0.0028 (J)		0.011 (J)	0.0011 (J)
8/27/2020				0.0025 (J)		
10/6/2020	<0.03					0.00097 (J)
10/7/2020		0.0013 (J)	0.0029 (J)	0.003 (J)	0.013 (J)	
3/3/2021	<0.03				0.015 (J)	0.001 (J)
3/4/2021		0.0014 (J)	0.002 (J)	0.0029 (J)		
9/15/2021	<0.03	0.0013 (J)				0.00085 (J)
9/16/2021			0.0021 (J)	0.0023 (J)	0.013 (J)	
1/26/2022	<0.03	0.0013 (J)				<0.03
1/27/2022			0.0022 (J)	0.003 (J)	0.016 (J)	
8/25/2022	<0.03	0.0012 (J)	0.0018 (J)	0.0033 (J)	0.012 (J)	<0.03
2/14/2023	<0.03					<0.03
2/15/2023		0.001 (J)		0.0027 (J)	0.011 (J)	
2/16/2023			0.0014 (J)			
9/20/2023	<0.03	0.0014 (J)	0.0012 (J)	0.0028 (J)	0.014 (J)	0.00088 (J)
2/28/2024		<0.03				<0.03
2/29/2024	<0.03		<0.03	0.0054 (J)	0.012 (J)	
Mean	0.02858	0.01034	0.006595	0.005211	0.01253	0.02084
Std. Dev.	0.006194	0.01372	0.01042	0.007006	0.002841	0.01386
Upper Lim.	0.03	0.03	0.003	0.0033	0.01419	0.03
Lower Lim.	0.003	0.0012	0.002	0.0025	0.01086	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-57	PZ-7D
9/1/2016			0.0022 (J)
9/8/2016	0.0038 (J)		
12/7/2016			0.0023 (J)
12/8/2016	0.0038 (J)		
3/22/2017	0.0068 (J)		0.0025 (J)
7/11/2017	0.0059 (J)		
7/12/2017			0.0033 (J)
10/18/2017	0.0057 (J)		
10/19/2017			<0.25
2/21/2018	0.0063 (J)		0.0034 (J)
7/12/2018	0.0063 (J)		0.0038 (J)
9/13/2018	0.0061 (J)		0.0026 (J)
10/2/2019	0.0074 (X)		
10/3/2019			0.0032 (X)
3/25/2020	0.0066 (J)		
3/26/2020			0.0031 (J)
8/26/2020	0.0065 (J)		0.0023 (J)
10/7/2020	0.0063 (J)		0.0023 (J)
3/3/2021	0.0061 (J)		
3/4/2021			0.0031 (J)
9/15/2021	0.0061 (J)		
9/16/2021			0.0025 (J)
1/26/2022	0.008 (J)		
1/27/2022		0.002 (J)	0.0039 (J)
8/24/2022	0.0073 (J)		
8/25/2022			0.003 (J)
8/26/2022		0.0013 (J)	
2/15/2023	0.0057 (J)		0.0037 (J)
2/16/2023		0.00082 (J)	
9/19/2023	0.0064 (J)		
9/20/2023			0.0023 (J)
9/21/2023		0.00089 (J)	
2/27/2024	0.007 (J)		
2/28/2024			0.0024 (J)
2/29/2024		<0.03	
Mean	0.006216	0.007002	0.009311
Std. Dev.	0.001037	0.01286	0.02802
Upper Lim.	0.006831	0.03	0.0037
Lower Lim.	0.005714	0.00082	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.0002					
9/1/2016		<0.0002				
9/6/2016			<0.0002			
9/7/2016				<0.0002	<0.0002	<0.0002
12/7/2016	7E-05 (J)	<0.0002	<0.0002			
12/8/2016				<0.0002	<0.0002	<0.0002
3/21/2017	<0.0002					
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002	
3/23/2017						<0.0002
7/11/2017	<0.0002		<0.0002			
7/12/2017		<0.0002		<0.0002	<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/19/2017						<0.0002
2/20/2018	<0.0002					
2/21/2018		9.7E-05 (J)	6.8E-05 (J)	8.6E-05 (J)	5.7E-05 (J)	4.5E-05 (J)
7/11/2018	<0.0002					
7/12/2018		<0.0002	<0.0002			<0.0002
8/15/2018					<0.0002	
8/16/2018				<0.0002		
9/12/2018	<0.0002					
9/13/2018		<0.0002	<0.0002		<0.0002	
9/14/2018				<0.0002		<0.0002
8/26/2020	0.00015 (J)	<0.0002	<0.0002	<0.0002		0.0001 (J)
8/27/2020					<0.0002	
10/6/2020	<0.0002		<0.0002			
10/7/2020		<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002					<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002	
9/15/2021	<0.0002	<0.0002	<0.0002			
9/16/2021				<0.0002	<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002	<0.0002			
1/27/2022				<0.0002	<0.0002	<0.0002
8/25/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/14/2023	<0.0002					
2/15/2023		<0.0002	<0.0002		<0.0002	<0.0002
2/16/2023				<0.0002		
9/19/2023			<0.0002			
9/20/2023	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2024		<0.0002				
2/29/2024	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001894	0.0001939	0.0001922	0.0001933	0.0001916	0.000185
Std. Dev.	3.307E-05	2.498E-05	3.201E-05	2.765E-05	3.468E-05	4.345E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	9.7E-05	6.8E-05	8.6E-05	5.7E-05	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.0002			
9/1/2016				<0.0002
9/8/2016		<0.0002		
12/7/2016	9E-05 (J)			6E-05 (J)
12/8/2016		<0.0002	<0.0002	
3/21/2017	<0.0002			
3/22/2017		<0.0002		<0.0002
3/23/2017			<0.0002	
7/11/2017	<0.0002	<0.0002		
7/12/2017			<0.0002	<0.0002
10/18/2017	<0.0002	<0.0002		
10/19/2017			<0.0002	<0.0002
2/20/2018	<0.0002			
2/21/2018		5.3E-05 (J)	4.3E-05 (J)	5.3E-05 (J)
7/11/2018	<0.0002			
7/12/2018		<0.0002	<0.0002	<0.0002
9/13/2018	<0.0002	<0.0002		<0.0002
9/14/2018			4.1E-05 (J)	
10/4/2018			<0.0002	
8/26/2020	0.00017 (J)	<0.0002	0.00011 (J)	<0.0002
10/6/2020	<0.0002			
10/7/2020		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		
3/4/2021			<0.0002	<0.0002
9/15/2021	<0.0002	<0.0002		
9/16/2021			<0.0002	<0.0002
1/26/2022	<0.0002	<0.0002		
1/27/2022			<0.0002	<0.0002
8/24/2022			<0.0002	
8/25/2022	<0.0002			<0.0002
10/11/2022		<0.0002		
2/14/2023	<0.0002			
2/15/2023		<0.0002		<0.0002
2/16/2023			<0.0002	
9/19/2023		<0.0002		
9/20/2023	<0.0002			<0.0002
9/21/2023			<0.0002	
2/27/2024		<0.0002		
2/28/2024	<0.0002			<0.0002
2/29/2024			<0.0002	
Mean	0.0001918	0.0001914	0.0001761	0.0001831
Std. Dev.	2.721E-05	3.565E-05	5.496E-05	4.767E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00017	5.3E-05	0.00011	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-19	PZ-23A
8/31/2016	<0.01					<0.01
9/1/2016		<0.01				
9/6/2016			<0.01			
9/7/2016				<0.01	0.0027 (J)	
12/7/2016	<0.01	<0.01	<0.01			<0.01
12/8/2016				<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)					0.0006 (J)
3/22/2017		0.0004 (J)	0.0004 (J)	0.0004 (J)		
3/23/2017					0.0025 (J)	
7/11/2017	<0.01		<0.01			<0.01
7/12/2017		<0.01		<0.01	0.0022 (J)	
10/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01
10/19/2017					0.0021 (J)	
2/20/2018	<0.01					<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01					<0.01
7/12/2018		<0.01	<0.01		0.0022 (J)	
8/16/2018				<0.01		
9/12/2018	<0.01					
9/13/2018		<0.01	<0.01			<0.01
9/14/2018				<0.01	0.0023 (J)	
9/10/2019						<0.01
10/2/2019	<0.01	<0.01	<0.01	<0.01		
10/3/2019					0.0024 (X)	
3/25/2020	<0.01			<0.01		0.0011 (J)
3/26/2020		<0.01	<0.01		0.0021 (J)	
8/26/2020	<0.01	<0.01	<0.01	<0.01	0.002 (J)	<0.01
10/6/2020	<0.01		<0.01			<0.01
10/7/2020		<0.01		<0.01	0.0019 (J)	
3/3/2021	<0.01				0.0021 (J)	<0.01
3/4/2021		<0.01	<0.01	<0.01		
9/15/2021	<0.01	<0.01	<0.01			<0.01
9/16/2021				<0.01	0.0021 (J)	
1/26/2022	<0.01	<0.01	<0.01			<0.01
1/27/2022				<0.01	0.0022 (J)	
8/25/2022	<0.01	<0.01	<0.01	<0.01	0.0017 (J)	<0.01
2/14/2023	<0.01					<0.01
2/15/2023		<0.01	<0.01		0.0016 (J)	
2/16/2023				<0.01		
9/19/2023			<0.01			
9/20/2023	<0.01	<0.01		<0.01	0.0019 (J)	<0.01
2/28/2024		<0.01				<0.01
2/29/2024	<0.01		<0.01	<0.01	0.0018 (J)	
Mean	0.0095	0.009495	0.009495	0.009495	0.002263	0.009037
Std. Dev.	0.002179	0.002202	0.002202	0.002202	0.0007143	0.002886
Upper Lim.	0.01	0.01	0.01	0.01	0.0024	0.01
Lower Lim.	0.0005	0.0004	0.0004	0.0004	0.0019	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-25	PZ-57
9/8/2016	<0.01	
12/8/2016	<0.01	
3/22/2017	0.001 (J)	
7/11/2017	<0.01	
10/18/2017	<0.01	
2/21/2018	<0.01	
7/12/2018	<0.01	
9/13/2018	<0.01	
10/2/2019	<0.01	
3/25/2020	<0.01	
8/26/2020	<0.01	
10/7/2020	<0.01	
3/3/2021	<0.01	
9/15/2021	<0.01	
1/26/2022	<0.01	
1/27/2022		0.00085 (J)
8/24/2022	<0.01	
8/26/2022		<0.01
2/15/2023	<0.01	
2/16/2023		<0.01
9/19/2023	<0.01	
9/21/2023		<0.01
2/27/2024	<0.01	
2/29/2024		<0.01
Mean	0.009526	0.00817
Std. Dev.	0.002065	0.004092
Upper Lim.	0.01	0.01
Lower Lim.	0.001	0.00085

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-19	PZ-23A	PZ-7D
8/31/2016	0.0012 (J)			0.0014 (J)	
9/1/2016		<0.005			<0.005
9/7/2016			<0.01		
12/7/2016	<0.005	<0.005		<0.01	<0.005
12/8/2016			<0.01		
3/21/2017	<0.005			<0.01	
3/22/2017		<0.005			<0.005
3/23/2017			<0.01		
7/11/2017	<0.005			<0.01	
7/12/2017		<0.005	<0.01		<0.005
10/18/2017	<0.005	<0.005		<0.01	
10/19/2017			<0.01		<0.005
2/20/2018	<0.005			<0.01	
2/21/2018		<0.005	<0.01		<0.005
7/11/2018	<0.005			<0.01	
7/12/2018		<0.005	<0.01		<0.005
9/12/2018	<0.005				
9/13/2018		<0.005		<0.01	<0.005
9/14/2018			0.0015 (J)		
9/10/2019				0.0018 (X)	
10/2/2019	0.0015 (X)	<0.005			
10/3/2019			0.0034 (X)		0.0017 (X)
3/25/2020	<0.005			0.003 (J)	
3/26/2020		<0.005	0.0016 (J)		<0.005
8/26/2020	<0.005	0.0018 (J)	0.0031 (J)	0.0026 (J)	0.0018 (J)
10/6/2020	<0.005			0.0027 (J)	
10/7/2020		<0.005	0.0035 (J)		<0.005
3/3/2021	<0.005		0.0033 (J)	0.0025 (J)	
3/4/2021		<0.005			0.0018 (J)
9/15/2021	<0.005	<0.005		0.0024 (J)	
9/16/2021			0.0033 (J)		<0.005
1/26/2022	<0.005	<0.005		0.0023 (J)	
1/27/2022			0.005		0.0018 (J)
8/25/2022	<0.005	<0.005	0.0019 (J)	0.0023 (J)	0.0017 (J)
2/14/2023	<0.005			0.0015 (J)	
2/15/2023		<0.005	0.0036 (J)		0.0017 (J)
9/20/2023	<0.005	<0.005	0.0024 (J)	0.0023 (J)	0.0015 (J)
2/28/2024		<0.005		0.0018 (J)	0.0019 (J)
2/29/2024	<0.005		0.0043 (J)		
Mean	0.004616	0.004832	0.005626	0.005084	0.003626
Std. Dev.	0.001152	0.0007341	0.003531	0.003876	0.001657
Upper Lim.	0.005	0.005	0.01	0.01	0.005
Lower Lim.	0.0015	0.0018	0.0024	0.0018	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19
8/31/2016	<0.001					
9/1/2016		<0.001				
9/6/2016			<0.001			
9/7/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	<0.001			
12/8/2016				<0.001	<0.001	0.0003 (J)
3/21/2017	6E-05 (J)					
3/22/2017		<0.001	0.0002 (J)	<0.001	4E-05 (J)	
3/23/2017						0.0003 (J)
7/11/2017	<0.001		0.0002 (J)			
7/12/2017		<0.001		<0.001	<0.001	0.0004 (J)
10/18/2017	<0.001	<0.001	0.0002 (J)	<0.001	5E-05 (J)	
10/19/2017						0.0005 (J)
2/20/2018	<0.001					
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)
7/11/2018	<0.001					
7/12/2018		<0.001	<0.001			0.00077 (J)
8/15/2018					<0.001	
8/16/2018				<0.001		
9/12/2018	<0.001					
9/13/2018		<0.001	0.00017 (J)		<0.001	
9/14/2018				<0.001		0.00076 (J)
10/2/2019	<0.001	0.00016 (X)	5.3E-05 (X)	0.00016 (X)		
10/3/2019					<0.001	0.00071 (X)
3/25/2020	<0.001			0.0002 (J)		
3/26/2020		0.00014 (J)	<0.001		7.1E-05 (J)	0.00068 (J)
8/26/2020	<0.001	0.00027 (J)	<0.001	0.00025 (J)		0.00056 (J)
8/27/2020					<0.001	
10/6/2020	<0.001		<0.001			
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)
3/3/2021	<0.001					0.00072 (J)
3/4/2021		0.00022 (J)	<0.001	0.00039 (J)	<0.001	
9/15/2021	<0.001	0.0002 (J)	<0.001			
9/16/2021				0.00034 (J)	<0.001	0.00066 (J)
1/26/2022	<0.001	<0.001	<0.001			
1/27/2022				0.00038 (J)	<0.001	0.00063 (J)
8/25/2022	<0.001	<0.001	<0.001	0.00037 (J)	<0.001	0.00053 (J)
2/14/2023	<0.001					
2/15/2023		<0.001	<0.001		<0.001	0.00051 (J)
2/16/2023				0.00038 (J)		
9/19/2023			<0.001			
9/20/2023	<0.001	<0.001		0.00024 (J)	<0.001	0.00052 (J)
2/28/2024		<0.001				
2/29/2024	<0.001		<0.001	<0.001	<0.001	0.0005 (J)
Mean	0.0009505	0.0007479	0.000737	0.0006279	0.0008506	0.0005653
Std. Dev.	0.0002157	0.000382	0.0003989	0.0003679	0.0003546	0.0001418
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.0006483
Lower Lim.	6E-05	0.00022	0.0002	0.00024	7.1E-05	0.0004822

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-33	PZ-7D
8/31/2016	<0.001			
9/1/2016				<0.001
9/8/2016		<0.001		
12/7/2016	0.0002 (J)			<0.001
12/8/2016		<0.001	<0.001	
3/21/2017	0.0003 (J)			
3/22/2017		<0.001		0.0002 (J)
3/23/2017			0.0001 (J)	
7/11/2017	0.0002 (J)	<0.001		
7/12/2017			0.0001 (J)	0.0001 (J)
10/18/2017	0.0001 (J)	<0.001		
10/19/2017			0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			
2/21/2018		<0.001	<0.001	<0.001
7/11/2018	0.00018 (J)			
7/12/2018		<0.001	<0.001	<0.001
9/13/2018	<0.001	<0.001		<0.001
9/14/2018			<0.001	
10/4/2018			<0.001	
9/10/2019	<0.001			
10/2/2019		0.00024 (X)		
10/3/2019			0.00018 (X)	7.8E-05 (X)
3/25/2020	0.00015 (J)	0.00037 (J)		
3/26/2020			0.00015 (J)	8.5E-05 (J)
8/26/2020	0.00016 (J)	0.00037 (J)	<0.001	<0.001
10/6/2020	<0.001			
10/7/2020		0.00027 (J)	<0.001	<0.001
3/3/2021	0.00017 (J)	0.00036 (J)		
3/4/2021			<0.001	<0.001
9/15/2021	<0.001	0.00066 (J)		
9/16/2021			<0.001	<0.001
1/26/2022	<0.001	0.00039 (J)		
1/27/2022			<0.001	<0.001
8/24/2022		0.00048 (J)	<0.001	
8/25/2022	<0.001			<0.001
2/14/2023	<0.001			
2/15/2023		0.00045 (J)		<0.001
2/16/2023			<0.001	
9/19/2023		0.00061 (J)		
9/20/2023	<0.001			<0.001
9/21/2023			<0.001	
2/27/2024		0.00065 (J)		
2/28/2024	<0.001			<0.001
2/29/2024			<0.001	
Mean	0.0006168	0.0006763	0.00077	0.0007665
Std. Dev.	0.0004168	0.0003035	0.0003958	0.0004022
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.00017	0.00037	0.00015	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/16/2024 3:38 PM View: Appendix IV - Confidence Intervals Non-Parametric
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-57
1/27/2022	1.13
8/26/2022	0.488 (U)
2/16/2023	0.193 (U)
9/21/2023	0.401 (U)
2/29/2024	0.7 (U)
Mean	0.5824
Std. Dev.	0.3561
Upper Lim.	1.13
Lower Lim.	0.193

WSP